

Paul K Chu

List of Publications by Year in descending order

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Version: 2024-02-01

1,462
papers

72,253
citations

767

119
h-index

2448

197
g-index

1470
all docs

1470
docs citations

1470
times ranked

60323
citing authors

#	ARTICLE	IF	CITATIONS
1	Characterization of amorphous and nanocrystalline carbon films. <i>Materials Chemistry and Physics</i> , 2006, 96, 253-277.	4.0	967
2	Ultrasmall Black Phosphorus Quantum Dots: Synthesis and Use as Photothermal Agents. <i>Angewandte Chemie - International Edition</i> , 2015, 54, 11526-11530.	13.8	906
3	From Black Phosphorus to Phosphorene: Basic Solvent Exfoliation, Evolution of Raman Scattering, and Applications to Ultrafast Photonics. <i>Advanced Functional Materials</i> , 2015, 25, 6996-7002.	14.9	862
4	Biodegradable black phosphorus-based nanospheres for in vivo photothermal cancer therapy. <i>Nature Communications</i> , 2016, 7, 12967.	12.8	835
5	Antibacterial coatings on titanium implants. <i>Journal of Biomedical Materials Research - Part B Applied Biomaterials</i> , 2009, 91B, 470-480.	3.4	732
6	Anionic Group Self-Doping as a Promising Strategy: Band-Gap Engineering and Multi-Functional Applications of High-Performance CO_3^{2-} -Doped $\text{Bi}_2\text{O}_3/\text{CO}_3$. <i>ACS Catalysis</i> , 2015, 5, 4094-4103.	11.2	690
7	Fabrication of Multiple Heterojunctions with Tunable Visible-Light-Active Photocatalytic Reactivity in BiOBr/BiOI Full-Range Composites Based on Microstructure Modulation and Band Structures. <i>ACS Applied Materials & Interfaces</i> , 2015, 7, 482-492.	8.0	671
8	Antibacterial nano-structured titania coating incorporated with silver nanoparticles. <i>Biomaterials</i> , 2011, 32, 5706-5716.	11.4	670
9	Versatile Approach for Integrative and Functionalized Tubes by Strain Engineering of Nanomembranes on Polymers. <i>Advanced Materials</i> , 2008, 20, 4085-4090.	21.0	608
10	Photo-Inspired Antibacterial Activity and Wound Healing Acceleration by Hydrogel Embedded with $\text{Ag}/\text{AgCl}/\text{ZnO}$ Nanostructures. <i>ACS Nano</i> , 2017, 11, 9010-9021.	14.6	591
11	A biodegradable polymer-based coating to control the performance of magnesium alloy orthopaedic implants. <i>Biomaterials</i> , 2010, 31, 2084-2096.	11.4	521
12	Scalable synthesis of ant-nest-like bulk porous silicon for high-performance lithium-ion battery anodes. <i>Nature Communications</i> , 2019, 10, 1447.	12.8	494
13	3D printing of hydrogels: Rational design strategies and emerging biomedical applications. <i>Materials Science and Engineering Reports</i> , 2020, 140, 100543.	31.8	494
14	Surface Coordination of Black Phosphorus for Robust Air and Water Stability. <i>Angewandte Chemie - International Edition</i> , 2016, 55, 5003-5007.	13.8	479
15	Metal-Ion-Modified Black Phosphorus with Enhanced Stability and Transistor Performance. <i>Advanced Materials</i> , 2017, 29, 1703811.	21.0	431
16	Cyclodextrin-Based Host-Guest Supramolecular Nanoparticles for Delivery: From Design to Applications. <i>Accounts of Chemical Research</i> , 2014, 47, 2017-2025.	15.6	418
17	The influence of hierarchical hybrid micro/nano-textured titanium surface with titania nanotubes on osteoblast functions. <i>Biomaterials</i> , 2010, 31, 5072-5082.	11.4	401
18	Influence of aggressive ions on the degradation behavior of biomedical magnesium alloy in physiological environment. <i>Acta Biomaterialia</i> , 2008, 4, 2008-2015.	8.3	341

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19	Synergistic effects of dual Zn/Ag ion implantation in osteogenic activity and antibacterial ability of titanium. <i>Biomaterials</i> , 2014, 35, 7699-7713.	11.4	340
20	Plasma immersion ion implantation—a fledgling technique for semiconductor processing. <i>Materials Science and Engineering Reports</i> , 1996, 17, 207-280.	31.8	335
21	Antibacterial effects and biocompatibility of titanium surfaces with graded silver incorporation in titania nanotubes. <i>Biomaterials</i> , 2014, 35, 4255-4265.	11.4	319
22	Mechanism of apatite formation on wollastonite coatings in simulated body fluids. <i>Biomaterials</i> , 2004, 25, 1755-1761.	11.4	315
23	Low-dimensional SiC nanostructures: Fabrication, luminescence, and electrical properties. <i>Progress in Materials Science</i> , 2006, 51, 983-1031.	32.8	312
24	Surface design of biodegradable magnesium alloys—a review. <i>Surface and Coatings Technology</i> , 2013, 233, 2-12.	4.8	309
25	Biological actions of silver nanoparticles embedded in titanium controlled by micro-galvanic effects. <i>Biomaterials</i> , 2011, 32, 693-705.	11.4	307
26	Design of magnesium alloys with controllable degradation for biomedical implants: From bulk to surface. <i>Acta Biomaterialia</i> , 2016, 45, 2-30.	8.3	306
27	The effects of titania nanotubes with embedded silver oxide nanoparticles on bacteria and osteoblasts. <i>Biomaterials</i> , 2014, 35, 4223-4235.	11.4	305
28	Recent progress of transition metal nitrides for efficient electrocatalytic water splitting. <i>Sustainable Energy and Fuels</i> , 2019, 3, 366-381.	4.9	305
29	Cytocompatibility, osseointegration, and bioactivity of three-dimensional porous and nanostructured network on polyetheretherketone. <i>Biomaterials</i> , 2013, 34, 9264-9277.	11.4	302
30	Black Phosphorus-Incorporated Hydrogel as a Sprayable and Biodegradable Photothermal Platform for Postsurgical Treatment of Cancer. <i>Advanced Science</i> , 2018, 5, 1700848.	11.2	289
31	Experimental Evidence for the Quantum Confinement Effect in 3C-SiC Nanocrystallites. <i>Physical Review Letters</i> , 2005, 94, 026102.	7.8	288
32	New Ultraviolet Photodetector Based on Individual Nb ₂ O ₅ Nanobelts. <i>Advanced Functional Materials</i> , 2011, 21, 3907-3915.	14.9	285
33	A General and Facile Approach to Heterostructured Core/Shell BiVO ₄ /BiOI <i>n-i</i> Junction: Room-Temperature <i>in Situ</i> Assembly and Highly Boosted Visible-Light Photocatalysis. <i>ACS Sustainable Chemistry and Engineering</i> , 2015, 3, 3262-3273.	6.7	285
34	Rose-bengal-conjugated gold nanorods for <i>in vivo</i> photodynamic and photothermal oral cancer therapies. <i>Biomaterials</i> , 2014, 35, 1954-1966.	11.4	276
35	Effects of micropitted/nanotubular titania topographies on bone mesenchymal stem cell osteogenic differentiation. <i>Biomaterials</i> , 2012, 33, 2629-2641.	11.4	273
36	Osteogenic activity and antibacterial effects on titanium surfaces modified with Zn-incorporated nanotube arrays. <i>Biomaterials</i> , 2013, 34, 3467-3478.	11.4	269

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37	Group IV Nanoparticles: Synthesis, Properties, and Biological Applications. <i>Small</i> , 2010, 6, 2080-2098.	10.0	264
38	TiL ₄ â€Coordinated Black Phosphorus Quantum Dots as an Efficient Contrast Agent for In Vivo Photoacoustic Imaging of Cancer. <i>Small</i> , 2017, 13, 1602896.	10.0	251
39	Recent advance and prospectives of electrocatalysts based on transition metal selenides for efficient water splitting. <i>Nano Energy</i> , 2020, 78, 105234.	16.0	250
40	Small gold nanorods laden macrophages for enhanced tumor coverage in photothermal therapy. <i>Biomaterials</i> , 2016, 74, 144-154.	11.4	247
41	Rapid Sterilization and Accelerated Wound Healing Using Zn ²⁺ and Graphene Oxide Modified gâ€C ₃ N ₄ under Dual Light Irradiation. <i>Advanced Functional Materials</i> , 2018, 28, 1800299.	14.9	246
42	Hollow chitosanâ€silica nanospheres as pH-sensitive targeted delivery carriers in breast cancer therapy. <i>Biomaterials</i> , 2011, 32, 4976-4986.	11.4	245
43	Surface nano-functionalization of biomaterials. <i>Materials Science and Engineering Reports</i> , 2010, 70, 275-302.	31.8	244
44	A CRISPRâ€Cas9-triggered strand displacement amplification method for ultrasensitive DNA detection. <i>Nature Communications</i> , 2018, 9, 5012.	12.8	244
45	Stimulation of bone growth following zinc incorporation into biomaterials. <i>Biomaterials</i> , 2014, 35, 6882-6897.	11.4	241
46	Photothermal Contribution to Enhanced Photocatalytic Performance of Graphene-Based Nanocomposites. <i>ACS Nano</i> , 2014, 8, 9304-9310.	14.6	240
47	Raman scattering study of zinc blende and wurtzite ZnS. <i>Journal of Applied Physics</i> , 2009, 106, .	2.5	235
48	Surface energy, wettability, and blood compatibility phosphorus doped diamond-like carbon films. <i>Diamond and Related Materials</i> , 2005, 14, 78-85.	3.9	230
49	Balancing Bacteriaâ€Osteoblast Competition through Selective Physical Puncture and Biofunctionalization of ZnO/Polydopamine/Arginine-Glycine-Aspartic Acid-Cysteine Nanorods. <i>ACS Nano</i> , 2017, 11, 11250-11263.	14.6	230
50	Synthesis and low-temperature photoluminescence properties of SnO ₂ nanowires and nanobelts. <i>Nanotechnology</i> , 2006, 17, 1695-1699.	2.6	228
51	Tuning the Bandgap of Photo-Sensitive Polydopamine/Ag ₃ PO ₄ /Graphene Oxide Coating for Rapid, Noninvasive Disinfection of Implants. <i>ACS Central Science</i> , 2018, 4, 724-738.	11.3	227
52	Synergistic Bacteria Killing through Photodynamic and Physical Actions of Graphene Oxide/Ag/Collagen Coating. <i>ACS Applied Materials & Interfaces</i> , 2017, 9, 26417-26428.	8.0	223
53	Mid-infrared surface plasmon resonance sensor based on photonic crystal fibers. <i>Optics Express</i> , 2017, 25, 14227.	3.4	222
54	Antibacterial effects of titanium embedded with silver nanoparticles based on electron-transfer-induced reactive oxygen species. <i>Biomaterials</i> , 2017, 124, 25-34.	11.4	219

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55	Engineering Nanoparticle-Coated Bacteria as Oral DNA Vaccines for Cancer Immunotherapy. <i>Nano Letters</i> , 2015, 15, 2732-2739.	9.1	213
56	Symmetrical dual D-shape photonic crystal fibers for surface plasmon resonance sensing. <i>Optics Express</i> , 2018, 26, 9039.	3.4	213
57	The osteogenic activity of strontium loaded titania nanotube arrays on titanium substrates. <i>Biomaterials</i> , 2013, 34, 19-29.	11.4	212
58	In-plane Black Phosphorus/Dicobalt Phosphide Heterostructure for Efficient Electrocatalysis. <i>Angewandte Chemie - International Edition</i> , 2018, 57, 2600-2604.	13.8	209
59	Functionalized TiO ₂ Based Nanomaterials for Biomedical Applications. <i>Advanced Functional Materials</i> , 2014, 24, 5464-5481.	14.9	208
60	Enhanced osteointegration on tantalum-implanted polyetheretherketone surface with bone-like elastic modulus. <i>Biomaterials</i> , 2015, 51, 173-183.	11.4	206
61	In vitro and in vivo anti-biofilm effects of silver nanoparticles immobilized on titanium. <i>Biomaterials</i> , 2014, 35, 9114-9125.	11.4	205
62	Metabolizable Ultrathin Bi ₂ Se ₃ Nanosheets in Imaging-Guided Photothermal Therapy. <i>Small</i> , 2016, 12, 4136-4145.	10.0	203
63	Bioactive SrTiO ₃ Nanotube Arrays: Strontium Delivery Platform on Ti-Based Osteoporotic Bone Implants. <i>ACS Nano</i> , 2009, 3, 3228-3234.	14.6	198
64	Enhanced antimicrobial properties, cytocompatibility, and corrosion resistance of plasma-modified biodegradable magnesium alloys. <i>Acta Biomaterialia</i> , 2014, 10, 544-556.	8.3	194
65	Gold-nanorods-siRNA nanoplex for improved photothermal therapy by gene silencing. <i>Biomaterials</i> , 2016, 78, 27-39.	11.4	192
66	Corrosion behavior of biomedical AZ91 magnesium alloy in simulated body fluids. <i>Journal of Materials Research</i> , 2007, 22, 2004-2011.	2.6	189
67	Influence of sulfur content on bone formation and antibacterial ability of sulfonated PEEK. <i>Biomaterials</i> , 2016, 83, 115-126.	11.4	189
68	Zinc-Modified Sulfonated Polyetheretherketone Surface with Immunomodulatory Function for Guiding Cell Fate and Bone Regeneration. <i>Advanced Science</i> , 2018, 5, 1800749.	11.2	184
69	Direct Growth of Graphene Film on Germanium Substrate. <i>Scientific Reports</i> , 2013, 3, 2465.	3.3	181
70	Recent progress in nanostructured transition metal nitrides for advanced electrochemical energy storage. <i>Journal of Materials Chemistry A</i> , 2019, 7, 14-37.	10.3	181
71	Near-infrared light control of bone regeneration with biodegradable photothermal osteoimplant. <i>Biomaterials</i> , 2019, 193, 1-11.	11.4	181
72	Quantum confinement effects across two-dimensional planes in MoS ₂ quantum dots. <i>Applied Physics Letters</i> , 2015, 106, .	3.3	180

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73	Controlled-temperature photothermal and oxidative bacteria killing and acceleration of wound healing by polydopamine-assisted Au-hydroxyapatite nanorods. <i>Acta Biomaterialia</i> , 2018, 77, 352-364.	8.3	180
74	VO ₂ /TiN Plasmonic Thermo-chromic Smart Coatings for Room-Temperature Applications. <i>Advanced Materials</i> , 2018, 30, 1705421.	21.0	179
75	Few-Layer Antimonene: Anisotropic Expansion and Reversible Crystalline-Phase Evolution Enable Large-Capacity and Long-Life Na-Ion Batteries. <i>ACS Nano</i> , 2018, 12, 1887-1893.	14.6	175
76	Electrochemical surface engineering of titanium-based alloys for biomedical application. <i>Electrochimica Acta</i> , 2018, 271, 699-718.	5.2	168
77	Noninvasive rapid bacteria-killing and acceleration of wound healing through photothermal/photodynamic/copper ion synergistic action of a hybrid hydrogel. <i>Biomaterials Science</i> , 2018, 6, 2110-2121.	5.4	168
78	3C-SiC Nanocrystals as Fluorescent Biological Labels. <i>Small</i> , 2008, 4, 1058-1062.	10.0	165
79	Electrochemical corrosion behavior of biodegradable Mg-Y-RE and Mg-Zn-Zr alloys in Ringer's solution and simulated body fluid. <i>Corrosion Science</i> , 2015, 91, 160-184.	6.6	162
80	Improvement of corrosion resistance and biocompatibility of rare-earth WE43 magnesium alloy by neodymium self-ion implantation. <i>Corrosion Science</i> , 2015, 94, 142-155.	6.6	161
81	Influence of heat treatment on degradation behavior of bio-degradable die-cast AZ63 magnesium alloy in simulated body fluid. <i>Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2007, 456, 350-357.	5.6	160
82	Mechanism of Photoluminescence from Chemically Derived Graphene Oxide: Role of Chemical Reduction. <i>Advanced Optical Materials</i> , 2013, 1, 926-932.	7.3	160
83	Evaporative Self-Assembly of Gold Nanorods into Macroscopic 3D Plasmonic Superlattice Arrays. <i>Advanced Materials</i> , 2016, 28, 2511-2517.	21.0	160
84	Freestanding carbon encapsulated mesoporous vanadium nitride nanowires enable highly stable sulfur cathodes for lithium-sulfur batteries. <i>Nano Energy</i> , 2017, 40, 655-662.	16.0	159
85	Stable and Multifunctional Dye-Modified Black Phosphorus Nanosheets for Near-Infrared Imaging-Guided Photothermal Therapy. <i>Chemistry of Materials</i> , 2017, 29, 7131-7139.	6.7	158
86	Surface plasmon resonance (SPR) infrared sensor based on D-shape photonic crystal fibers with ITO coatings. <i>Optics Communications</i> , 2020, 464, 125496.	2.1	157
87	Elucidating the Intercalation Pseudocapacitance Mechanism of MoS ₂ -Carbon Monolayer Interoverlapped Superstructure: Toward High-Performance Sodium-Ion-Based Hybrid Supercapacitor. <i>ACS Applied Materials & Interfaces</i> , 2017, 9, 32745-32755.	8.0	156
88	An antibacterial platform based on capacitive carbon-doped TiO ₂ nanotubes after direct or alternating current-charging. <i>Nature Communications</i> , 2018, 9, 2055.	12.8	153
89	Sn-C bonding riveted SnSe nanoplates vertically grown on nitrogen-doped carbon nanobelts for high-performance sodium-ion battery anodes. <i>Nano Energy</i> , 2018, 54, 322-330.	16.0	152
90	Designing Core-Shell Gold and Selenium Nanocomposites for Cancer Radiochemotherapy. <i>ACS Nano</i> , 2017, 11, 4848-4858.	14.6	150

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91	Biomass-derived robust three-dimensional porous carbon for high volumetric performance supercapacitors. <i>Journal of Power Sources</i> , 2019, 412, 1-9.	7.8	150
92	Hydrogenated V ₂ O ₅ Nanosheets for Superior Lithium Storage Properties. <i>Advanced Functional Materials</i> , 2016, 26, 784-791.	14.9	149
93	Light-emitting diodes enhanced by localized surface plasmon resonance. <i>Nanoscale Research Letters</i> , 2011, 6, 199.	5.7	147
94	Graphitic carbon nitride-based materials for photocatalytic antibacterial application. <i>Materials Science and Engineering Reports</i> , 2021, 145, 100610.	31.8	145
95	Biodegradable Mg-Cu alloys with enhanced osteogenesis, angiogenesis, and long-lasting antibacterial effects. <i>Scientific Reports</i> , 2016, 6, 27374.	3.3	144
96	Mechanical and biological characteristics of diamond-like carbon coated poly aryl-ether-ether-ketone. <i>Biomaterials</i> , 2010, 31, 8181-8187.	11.4	143
97	Precisely controlled delivery of magnesium ions thru sponge-like monodisperse PLGA/nano-MgO-alginate core-shell microsphere device to enable in-situ bone regeneration. <i>Biomaterials</i> , 2018, 174, 1-16.	11.4	140
98	Inactivation of a 25.5 Åµm <i>Enterococcus faecalis</i> biofilm by a room-temperature, battery-operated, handheld air plasma jet. <i>Journal Physics D: Applied Physics</i> , 2012, 45, 165205.	2.8	138
99	Engineering and functionalization of biomaterials via surface modification. <i>Journal of Materials Chemistry B</i> , 2015, 3, 2024-2042.	5.8	138
100	Biomedical Applications of Functionalized ZnO Nanomaterials: from Biosensors to Bioimaging. <i>Advanced Materials Interfaces</i> , 2016, 3, 1500494.	3.7	138
101	Analysis of a Surface Plasmon Resonance Probe Based on Photonic Crystal Fibers for Low Refractive Index Detection. <i>Plasmonics</i> , 2018, 13, 779-784.	3.4	137
102	Magnetite-loaded fluorine-containing polymeric micelles for magnetic resonance imaging and drug delivery. <i>Biomaterials</i> , 2012, 33, 3013-3024.	11.4	136
103	Ni/Co-based nanosheet arrays for efficient oxygen evolution reaction. <i>Nano Energy</i> , 2018, 52, 360-368.	16.0	135
104	Degradation behaviour of pure magnesium in simulated body fluids with different concentrations of. <i>Corrosion Science</i> , 2011, 53, 1522-1528.	6.6	133
105	Green light stimulates terahertz emission from mesocrystal microspheres. <i>Nature Nanotechnology</i> , 2011, 6, 103-106.	31.5	131
106	Plasma surface modification of poly vinyl chloride for improvement of antibacterial properties. <i>Biomaterials</i> , 2006, 27, 44-51.	11.4	130
107	Degradation susceptibility of surgical magnesium alloy in artificial biological fluid containing albumin. <i>Journal of Materials Research</i> , 2007, 22, 1806-1814.	2.6	130
108	Two-dimensional black phosphorus: Synthesis, modification, properties, and applications. <i>Materials Science and Engineering Reports</i> , 2017, 120, 1-33.	31.8	130

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109	Origin of low-temperature photoluminescence from SnO ₂ nanowires fabricated by thermal evaporation and annealed in different ambients. <i>Applied Physics Letters</i> , 2006, 88, 183112.	3.3	128
110	Is There Real Upconversion Photoluminescence from Graphene Quantum Dots?. <i>Advanced Optical Materials</i> , 2013, 1, 554-558.	7.3	128
111	MoS ₂ Quantum Dots Interspersed Li ₄ Ti ₅ O ₁₂ Nanosheets with Enhanced Performance for Li and Na Ion Batteries. <i>Advanced Functional Materials</i> , 2016, 26, 3349-3358.	14.9	128
112	Nano Ag/ZnO-Incorporated Hydroxyapatite Composite Coatings: Highly Effective Infection Prevention and Excellent Osteointegration. <i>ACS Applied Materials & Interfaces</i> , 2018, 10, 1266-1277.	8.0	127
113	Synthesis, Growth Mechanism, and Electrochemical Properties of Hollow Mesoporous Carbon Spheres with Controlled Diameter. <i>Journal of Physical Chemistry C</i> , 2011, 115, 17717-17724.	3.1	125
114	Radiation tolerance of Cu/W multilayered nanocomposites. <i>Journal of Nuclear Materials</i> , 2011, 413, 11-15.	2.7	125
115	A Biomimetic Hierarchical Scaffold: Natural Growth of Nanotitanates on Three-Dimensional Microporous Ti-Based Metals. <i>Nano Letters</i> , 2008, 8, 3803-3808.	9.1	124
116	Fabrication, modification, and biomedical applications of anodized TiO ₂ nanotube arrays. <i>RSC Advances</i> , 2014, 4, 17300-17324.	3.6	124
117	Au Nanoparticles Decorated TiO ₂ Nanotube Arrays as a Recyclable Sensor for Photoenhanced Electrochemical Detection of Bisphenol A. <i>Environmental Science & Technology</i> , 2016, 50, 4430-4438.	10.0	124
118	Mo ₂ C/VC heterojunction embedded in graphitic carbon network: An advanced electrocatalyst for hydrogen evolution. <i>Nano Energy</i> , 2019, 60, 520-526.	16.0	124
119	A bifunctional hydrogel incorporated with CuS@MoS ₂ microspheres for disinfection and improved wound healing. <i>Chemical Engineering Journal</i> , 2020, 382, 122849.	12.7	124
120	Highly Conductive, Mechanically Robust, and Electrochemically Inactive TiC/C Nanofiber Scaffold for High-Performance Silicon Anode Batteries. <i>ACS Nano</i> , 2011, 5, 8346-8351.	14.6	122
121	A surface-engineered polyetheretherketone biomaterial implant with direct and immunoregulatory antibacterial activity against methicillin-resistant <i>Staphylococcus aureus</i> . <i>Biomaterials</i> , 2019, 208, 8-20.	11.4	122
122	Synergistic WO ₃ ·2H ₂ O Nanoplates/WS ₂ Hybrid Catalysts for High-Efficiency Hydrogen Evolution. <i>ACS Applied Materials & Interfaces</i> , 2016, 8, 13966-13972.	8.0	120
123	Surface functionalization of biomaterials by radical polymerization. <i>Progress in Materials Science</i> , 2016, 83, 191-235.	32.8	120
124	Vanadium carbide nanoparticles encapsulated in graphitic carbon network nanosheets: A high-efficiency electrocatalyst for hydrogen evolution reaction. <i>Nano Energy</i> , 2016, 26, 603-609.	16.0	120
125	Effects and Mechanism of Atmospheric-Pressure Dielectric Barrier Discharge Cold Plasma on Lactate Dehydrogenase (LDH) Enzyme. <i>Scientific Reports</i> , 2015, 5, 10031.	3.3	119
126	In situ segregation of cobalt nanoparticles on VN nanosheets via nitriding of Co ₂ V ₂ O ₇ nanosheets as efficient oxygen evolution reaction electrocatalysts. <i>Nano Energy</i> , 2017, 34, 1-7.	16.0	119

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127	Electron storage mediated dark antibacterial action of bound silver nanoparticles: Smaller is not always better. <i>Acta Biomaterialia</i> , 2013, 9, 5100-5110.	8.3	116
128	Black Phosphorus Based Photocathodes in Wideband Bifacial Dye-Sensitized Solar Cells. <i>Advanced Materials</i> , 2016, 28, 8937-8944.	21.0	116
129	Surface Coordination of Black Phosphorus for Robust Air and Water Stability. <i>Angewandte Chemie</i> , 2016, 128, 5087-5091.	2.0	116
130	Near-infrared light-triggered drug delivery system based on black phosphorus for in vivo bone regeneration. <i>Biomaterials</i> , 2018, 179, 164-174.	11.4	115
131	Ni-doped amorphous iron phosphide nanoparticles on TiN nanowire arrays: An advanced alkaline hydrogen evolution electrocatalyst. <i>Nano Energy</i> , 2018, 53, 66-73.	16.0	115
132	2D black phosphorus dotted with silver nanoparticles: An excellent lubricant additive for tribological applications. <i>Chemical Engineering Journal</i> , 2020, 392, 123631.	12.7	115
133	Synergistic treatment of ovarian cancer by co-delivery of survivin shRNA and paclitaxel via supramolecular micellar assembly. <i>Biomaterials</i> , 2012, 33, 6580-6591.	11.4	114
134	Valence State Manipulation of Cerium Oxide Nanoparticles on a Titanium Surface for Modulating Cell Fate and Bone Formation. <i>Advanced Science</i> , 2018, 5, 1700678.	11.2	114
135	Highly Stretchable Conductive Glue for High-Performance Silicon Anodes in Advanced Lithium-Ion Batteries. <i>Advanced Functional Materials</i> , 2018, 28, 1704858.	14.9	113
136	Black Phosphorus: Bioactive Nanomaterials with Inherent and Selective Chemotherapeutic Effects. <i>Angewandte Chemie - International Edition</i> , 2019, 58, 769-774.	13.8	113
137	Corrosion behavior of ZrN/Zr coated biomedical AZ91 magnesium alloy. <i>Surface and Coatings Technology</i> , 2009, 203, 2554-2557.	4.8	112
138	The role of sterilization in the cytocompatibility of titania nanotubes. <i>Biomaterials</i> , 2010, 31, 2055-2063.	11.4	112
139	Low-modulus Mg/PCL hybrid bone substitute for osteoporotic fracture fixation. <i>Biomaterials</i> , 2013, 34, 7016-7032.	11.4	112
140	In situ formation of N-doped carbon-coated porous MoP nanowires: a highly efficient electrocatalyst for hydrogen evolution reaction in a wide pH range. <i>Applied Catalysis B: Environmental</i> , 2020, 263, 118358.	20.2	112
141	Corrosion behavior of AZ91 magnesium alloy treated by plasma immersion ion implantation and deposition in artificial physiological fluids. <i>Thin Solid Films</i> , 2007, 516, 422-427.	1.8	111
142	Synergistic antibacterial activity of physical-chemical multi-mechanism by TiO ₂ nanorod arrays for safe biofilm eradication on implant. <i>Bioactive Materials</i> , 2021, 6, 12-25.	15.6	111
143	Plasma-treated nanostructured TiO ₂ surface supporting biomimetic growth of apatite. <i>Biomaterials</i> , 2005, 26, 6143-6150.	11.4	110
144	Influence of Test Solutions on In Vitro Studies of Biomedical Magnesium Alloys. <i>Journal of the Electrochemical Society</i> , 2010, 157, C238.	2.9	110

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145	Fabrication and enhanced dielectric properties of graphene-polyvinylidene fluoride functional hybrid films with a polyaniline interlayer. <i>Journal of Materials Chemistry A</i> , 2013, 1, 884-890.	10.3	110
146	Synthesis and Photocatalytic Activity of Highly Ordered TiO ₂ and SrTiO ₃ /TiO ₂ Nanotube Arrays on Ti Substrates. <i>Journal of the American Ceramic Society</i> , 2010, 93, 2771-2778.	3.8	108
147	Mesoporous nitrogen-doped carbon hollow spheres as high-performance anodes for lithium-ion batteries. <i>Journal of Power Sources</i> , 2016, 324, 233-238.	7.8	108
148	Freestanding hollow double-shell Se@CN _x nanobelts as large-capacity and high-rate cathodes for Li-Se batteries. <i>Nano Energy</i> , 2017, 32, 1-9.	16.0	108
149	High-Efficiency Electrochemical Hydrogen Evolution Based on Surface Autocatalytic Effect of Ultrathin 3C-SiC Nanocrystals. <i>Nano Letters</i> , 2012, 12, 1545-1548.	9.1	107
150	Recent developments and applications of plasma immersion ion implantation. <i>Journal of Vacuum Science & Technology an Official Journal of the American Vacuum Society B, Microelectronics Processing and Phenomena</i> , 2004, 22, 289.	1.6	106
151	Bioactivity and cytocompatibility of zirconia (ZrO ₂) films fabricated by cathodic arc deposition. <i>Biomaterials</i> , 2006, 27, 3904-3911.	11.4	106
152	Effects of zirconium and oxygen plasma ion implantation on the corrosion behavior of ZK60 Mg alloy in simulated body fluids. <i>Corrosion Science</i> , 2014, 82, 7-26.	6.6	106
153	Corrosion resistance and cytocompatibility of tantalum-surface-functionalized biomedical ZK60 Mg alloy. <i>Corrosion Science</i> , 2017, 114, 45-56.	6.6	106
154	Electrostatic Self-Assembly of Ti ₃ C ₂ T _x MXene and Gold Nanorods as an Efficient Surface-Enhanced Raman Scattering Platform for Reliable and High-Sensitivity Determination of Organic Pollutants. <i>ACS Sensors</i> , 2019, 4, 2303-2310.	7.8	106
155	Conductive amorphous carbon-coated 316L stainless steel as bipolar plates in polymer electrolyte membrane fuel cells. <i>International Journal of Hydrogen Energy</i> , 2009, 34, 6771-6777.	7.1	105
156	Identification of Surface Structures on 3C-SiC Nanocrystals with Hydrogen and Hydroxyl Bonding by Photoluminescence. <i>Nano Letters</i> , 2009, 9, 4053-4060.	9.1	105
157	Charged Diphenylalanine Nanotubes and Controlled Hierarchical Self-Assembly. <i>ACS Nano</i> , 2011, 5, 4448-4454.	14.6	105
158	Bamboo leaf derived ultrafine Si nanoparticles and Si/C nanocomposites for high-performance Li-ion battery anodes. <i>Nanoscale</i> , 2015, 7, 13840-13847.	5.6	105
159	Black Phosphorus/Platinum Heterostructure: A Highly Efficient Photocatalyst for Solar-Driven Chemical Reactions. <i>Advanced Materials</i> , 2018, 30, e1803641.	21.0	105
160	NiFe-Layered Double Hydroxide Synchronously Activated by Heterojunctions and Vacancies for the Oxygen Evolution Reaction. <i>ACS Applied Materials & Interfaces</i> , 2020, 12, 42850-42858.	8.0	105
161	Biocompatibility and bioactivity of plasma-treated biodegradable poly(butylene succinate). <i>Acta Biomaterialia</i> , 2009, 5, 279-287.	8.3	104
162	Nitrogen-Doped Carbon Encapsulated Mesoporous Vanadium Nitride Nanowires as Self-Supported Electrodes for Flexible All-Solid-State Supercapacitors. <i>Advanced Materials Interfaces</i> , 2015, 2, 1500211.	3.7	104

#	ARTICLE	IF	CITATIONS
163	Relationship between osseointegration and superelastic biomechanics in porous NiTi scaffolds. <i>Biomaterials</i> , 2011, 32, 330-338.	11.4	103
164	Biomimetic osteogenic peptide with mussel adhesion and osteoimmunomodulatory functions to ameliorate interfacial osseointegration under chronic inflammation. <i>Biomaterials</i> , 2020, 255, 120197.	11.4	103
165	Improvement of surface bioactivity on titanium by water and hydrogen plasma immersion ion implantation. <i>Biomaterials</i> , 2005, 26, 6129-6135.	11.4	102
166	Antibacterial Activity of Silver Doped Titanate Nanowires on Ti Implants. <i>ACS Applied Materials & Interfaces</i> , 2016, 8, 16584-16594.	8.0	102
167	Preferential production of reactive species and bactericidal efficacy of gas-liquid plasma discharge. <i>Chemical Engineering Journal</i> , 2019, 362, 402-412.	12.7	102
168	High-efficiency hydrogen evolution from seawater using hetero-structured T/Td phase ReS ₂ nanosheets with cationic vacancies. <i>Nano Energy</i> , 2019, 55, 42-48.	16.0	102
169	Hemocompatibility and anti-bacterial properties of silver doped diamond-like carbon prepared by pulsed filtered cathodic vacuum arc deposition. <i>Diamond and Related Materials</i> , 2007, 16, 1353-1360.	3.9	100
170	Sequentially Triggered Delivery System of Black Phosphorus Quantum Dots with Surface Charge-Switching Ability for Precise Tumor Radiosensitization. <i>ACS Nano</i> , 2018, 12, 12401-12415.	14.6	100
171	Tuning the surface immunomodulatory functions of polyetheretherketone for enhanced osseointegration. <i>Biomaterials</i> , 2020, 230, 119642.	11.4	100
172	Synthesis and characterization of super hard, self-lubricating Ti-Si-C-N nanocomposite coatings. <i>Acta Materialia</i> , 2007, 55, 6350-6355.	7.9	99
173	In vivo stimulation of bone formation by aluminum and oxygen plasma surface-modified magnesium implants. <i>Biomaterials</i> , 2013, 34, 9863-9876.	11.4	99
174	The role of integrin-linked kinase/ β -catenin pathway in the enhanced MG63 differentiation by micro/nano-textured topography. <i>Biomaterials</i> , 2013, 34, 631-640.	11.4	99
175	Highly-crystalline ultrathin Li ₄ Ti ₅ O ₁₂ nanosheets decorated with silver nanocrystals as a high-performance anode material for lithium ion batteries. <i>Journal of Power Sources</i> , 2015, 276, 247-254.	7.8	99
176	Ultra-sensitive detection of cysteine by gold nanorod assembly. <i>Biosensors and Bioelectronics</i> , 2010, 25, 2078-2083.	10.1	97
177	Fabrication and dielectric properties of oriented polyvinylidene fluoride nanocomposites incorporated with graphene nanosheets. <i>Materials Chemistry and Physics</i> , 2012, 134, 867-874.	4.0	96
178	Biofunctionalization of carbon nanotubes/chitosan hybrids on Ti implants by atom layer deposited ZnO nanostructures. <i>Applied Surface Science</i> , 2017, 400, 14-23.	6.1	96
179	Effects of copper nanoparticles in porous TiO ₂ coatings on bacterial resistance and cytocompatibility of osteoblasts and endothelial cells. <i>Materials Science and Engineering C</i> , 2018, 82, 110-120.	7.3	96
180	Antibacterial Surface Design of Titanium-Based Biomaterials for Enhanced Bacteria-Killing and Cell-Assisting Functions Against Periprosthetic Joint Infection. <i>ACS Applied Materials & Interfaces</i> , 2016, 8, 11162-11178.	8.0	95

#	ARTICLE	IF	CITATIONS
181	Flexible Nb ₂ O ₅ nanowires/graphene film electrode for high-performance hybrid Li-ion supercapacitors. <i>Journal of Power Sources</i> , 2016, 328, 599-606.	7.8	95
182	Phase-Change Microcapsules Incorporated with Black Phosphorus for Efficient Solar Energy Storage. <i>Advanced Science</i> , 2020, 7, 2000602.	11.2	95
183	Nanoparticles for improving cancer diagnosis. <i>Materials Science and Engineering Reports</i> , 2013, 74, 35-69.	31.8	94
184	Biodegradable near-infrared-photoresponsive shape memory implants based on black phosphorus nanofillers. <i>Biomaterials</i> , 2018, 164, 11-21.	11.4	94
185	Stable black phosphorus/Bi ₂ O ₃ heterostructures for synergistic cancer radiotherapy. <i>Biomaterials</i> , 2018, 171, 12-22.	11.4	94
186	Effects of Ti/TiN multilayer on corrosion resistance of nickel-titanium orthodontic brackets in artificial saliva. <i>Corrosion Science</i> , 2007, 49, 3783-3796.	6.6	93
187	Determination of surface oxygen vacancy position in SnO ₂ nanocrystals by Raman spectroscopy. <i>Solid State Communications</i> , 2011, 151, 811-814.	1.9	93
188	Controlled Assembly of Highly Raman-Enhancing Silver Nanocap Arrays Templated by Porous Anodic Alumina Membranes. <i>Small</i> , 2009, 5, 2333-2337.	10.0	92
189	Coaxial PANI/TiN/PANI nanotube arrays for high-performance supercapacitor electrodes. <i>Chemical Communications</i> , 2013, 49, 10172.	4.1	92
190	How Graphene Islands Are Unidirectionally Aligned on the Ge(110) Surface. <i>Nano Letters</i> , 2016, 16, 3160-3165.	9.1	92
191	Antimicrobial properties of copper plasma-modified polyethylene. <i>Polymer</i> , 2006, 47, 7441-7445.	3.8	91
192	The role of the Wnt/ β -catenin pathway in the effect of implant topography on MG63 differentiation. <i>Biomaterials</i> , 2012, 33, 7993-8002.	11.4	91
193	Optical microcavities with tubular geometry: properties and applications. <i>Laser and Photonics Reviews</i> , 2014, 8, 521-547.	8.7	91
194	Numerical analysis of a photonic crystal fiber based on a surface plasmon resonance sensor with an annular analyte channel. <i>Optics Communications</i> , 2017, 382, 162-166.	2.1	91
195	Development and application of fuel cells in the automobile industry. <i>Journal of Energy Storage</i> , 2021, 42, 103124.	8.1	91
196	Near-infrared light II - assisted rapid biofilm elimination platform for bone implants at mild temperature. <i>Biomaterials</i> , 2021, 269, 120634.	11.4	90
197	Tin Oxide Nanoribbons with Vacancy Structures in Luminescence-Sensitive Oxygen Sensing. <i>Nano Letters</i> , 2009, 9, 1926-1931.	9.1	89
198	Strain effect on lattice vibration, heat capacity, and thermal conductivity of graphene. <i>Applied Physics Letters</i> , 2012, 101, 111904.	3.3	89

#	ARTICLE	IF	CITATIONS
199	Novel Method for the Fabrication of Flexible Film with Oriented Arrays of Graphene in Poly(vinylidene Tj ETQq1 10567-10573.	0.784314 3.1	rgBT /Ove 89
200	Zn/Ag micro-galvanic couples formed on titanium and osseointegration effects in the presence of S.Åureus. <i>Biomaterials</i> , 2015, 65, 22-31.	11.4	89
201	Mesoporous TiO ₂ Nanocrystals/Graphene as an Efficient Sulfur Host Material for High-Performance Lithium-Sulfur Batteries. <i>ACS Applied Materials & Interfaces</i> , 2016, 8, 23784-23792.	8.0	89
202	A Novel Hybrid-Layered Organic Phototransistor Enables Efficient Intermolecular Charge Transfer and Carrier Transport for Ultrasensitive Photodetection. <i>Advanced Materials</i> , 2019, 31, e1900763.	21.0	89
203	UV-irradiation-induced bioactivity on TiO ₂ coatings with nanostructural surface. <i>Acta Biomaterialia</i> , 2008, 4, 544-552.	8.3	88
204	Microstructure, bioactivity and osteoblast behavior of monoclinic zirconia coating with nanostructured surface. <i>Acta Biomaterialia</i> , 2010, 6, 990-1000.	8.3	88
205	Reduced graphene oxide encapsulated selenium nanoparticles for high-power lithium-selenium battery cathode. <i>Journal of Power Sources</i> , 2015, 288, 214-220.	7.8	88
206	Luminescent small-diameter 3C-SiC nanocrystals fabricated via a simple chemical etching method. <i>Nanotechnology</i> , 2007, 18, 365603.	2.6	87
207	Recent advances in multifunctional magnetic nanoparticles and applications to biomedical diagnosis and treatment. <i>RSC Advances</i> , 2013, 3, 10598.	3.6	87
208	Spatially confined synthesis of vanadium nitride nanodots intercalated carbon nanosheets with ultrahigh volumetric capacitance and long life for flexible supercapacitors. <i>Nano Energy</i> , 2018, 51, 128-136.	16.0	87
209	Pore formation mechanism and characterization of porous NiTi shape memory alloys synthesized by capsule-free hot isostatic pressing. <i>Acta Materialia</i> , 2007, 55, 3437-3451.	7.9	86
210	Biodegradable poly-lactic acid based-composite reinforced unidirectionally with high-strength magnesium alloy wires. <i>Biomaterials</i> , 2015, 49, 135-144.	11.4	86
211	Peapod-like V ₂ O ₃ nanorods encapsulated into carbon as binder-free and flexible electrodes in lithium-ion batteries. <i>Journal of Power Sources</i> , 2016, 331, 58-66.	7.8	86
212	Corrosion resistance of dicalcium phosphate dihydrate/poly(lactic-co-glycolic acid) hybrid coating on AZ31 magnesium alloy. <i>Corrosion Science</i> , 2016, 102, 209-221.	6.6	86
213	Self-selective electroless plating: An approach for fabrication of functional 1D nanomaterials. <i>Materials Science and Engineering Reports</i> , 2008, 61, 59-77.	31.8	85
214	Effects of carbon ash on rheological properties of water-based drilling fluids. <i>Journal of Petroleum Science and Engineering</i> , 2012, 100, 1-8.	4.2	85
215	Magnetic, fluorescent, and thermo-responsive Fe ₃ O ₄ /rare earth incorporated poly(St-NIPAM) core-shell colloidal nanoparticles in multimodal optical/magnetic resonance imaging probes. <i>Biomaterials</i> , 2013, 34, 2296-2306.	11.4	85
216	High-energy lithium-ion hybrid supercapacitors composed of hierarchical urchin-like WO ₃ /C anodes and MOF-derived polyhedral hollow carbon cathodes. <i>Nanoscale</i> , 2016, 8, 16761-16768.	5.6	85

#	ARTICLE	IF	CITATIONS
217	In Situ Synthesis of MoP Nanoflakes Intercalated Nâ€Doped Graphene Nanobelts from MoO ₃ â€Amine Hybrid for Highâ€Efficient Hydrogen Evolution Reaction. <i>Small</i> , 2018, 14, e1800667.	10.0	85
218	ZnL ₂ -BPs Integrated Bone Scaffold under Sequential Photothermal Mediation: A Winâ€Win Strategy Delivering Antibacterial Therapy and Fostering Osteogenesis Thereafter. <i>ACS Nano</i> , 2021, 15, 17854-17869.	14.6	85
219	Functional replication of the tendon tissue microenvironment by a bioimprinted substrate and the support of tenocytic differentiation of mesenchymal stem cells. <i>Biomaterials</i> , 2012, 33, 7686-7698.	11.4	84
220	Bone integration capability of a series of strontiumâ€containing hydroxyapatite coatings formed by microâ€arc oxidation. <i>Journal of Biomedical Materials Research - Part A</i> , 2013, 101A, 2465-2480.	4.0	84
221	Polymeric Nanoarchitectures on Ti-Based Implants for Antibacterial Applications. <i>ACS Applied Materials & Interfaces</i> , 2014, 6, 17323-17345.	8.0	84
222	Efficient Enrichment and Self-Assembly of Hybrid Nanoparticles into Removable and Magnetic SERS Substrates for Sensitive Detection of Environmental Pollutants. <i>ACS Applied Materials & Interfaces</i> , 2017, 9, 7472-7480.	8.0	84
223	A functionalized TiO ₂ /Mg ₂ TiO ₄ nano-layer on biodegradable magnesium implant enables superior bone-implant integration and bacterial disinfection. <i>Biomaterials</i> , 2019, 219, 119372.	11.4	84
224	Dispersion of linear waves in quantum plasmas. <i>Physics of Plasmas</i> , 2007, 14, 062102.	1.9	83
225	Thermal oxidation of titanium: Evaluation of corrosion resistance as a function of cooling rate. <i>Materials Chemistry and Physics</i> , 2013, 138, 565-572.	4.0	83
226	Mn ²⁺ -Bonded Reduced Graphene Oxide with Strong Radiative Recombination in Broad Visible Range Caused by Resonant Energy Transfer. <i>Nano Letters</i> , 2011, 11, 3951-3956.	9.1	82
227	Fundamentals and applications of surface-enhanced Raman spectroscopyâ€based biosensors. <i>Current Opinion in Biomedical Engineering</i> , 2020, 13, 51-59.	3.4	82
228	Freestanding, Hierarchical, and Porous Bilayered Na _x V ₂ O ₅ â€H ₂ O/rGO/CNT Composites as High-Performance Cathode Materials for Nonaqueous K-Ion Batteries and Aqueous Zinc-Ion Batteries. <i>ACS Applied Materials & Interfaces</i> , 2020, 12, 706-716.	8.0	82
229	Effects of Carbon and Nitrogen Plasma Immersion Ion Implantation on In vitro and In vivo Biocompatibility of Titanium Alloy. <i>ACS Applied Materials & Interfaces</i> , 2013, 5, 1510-1516.	8.0	81
230	Multilevel surface engineering of nanostructured TiO ₂ on carbon-fiber-reinforced polyetheretherketone. <i>Biomaterials</i> , 2014, 35, 5731-5740.	11.4	81
231	In situ synthesis of Ni(OH) ₂ /TiO ₂ composite film on NiTi alloy for non-enzymatic glucose sensing. <i>Sensors and Actuators B: Chemical</i> , 2016, 232, 150-157.	7.8	80
232	Linker-free covalent immobilization of heparin, SDF-1Î±, and CD47 on PTFE surface for antithrombogenicity, endothelialization and anti-inflammation. <i>Biomaterials</i> , 2017, 140, 201-211.	11.4	80
233	Antibacterial copper-containing titanium nitride films produced by dual magnetron sputtering. <i>Surface and Coatings Technology</i> , 2007, 201, 8606-8609.	4.8	79
234	Ag and Ag/N ₂ plasma modification of polyethylene for the enhancement of antibacterial properties and cell growth/proliferation. <i>Acta Biomaterialia</i> , 2008, 4, 2028-2036.	8.3	79

#	ARTICLE	IF	CITATIONS
235	Corrosion behavior of SS316L in simulated and accelerated PEMFC environments. <i>International Journal of Hydrogen Energy</i> , 2011, 36, 13032-13042.	7.1	79
236	Systematic Study of Inherent Antibacterial Properties of Magnesium-based Biomaterials. <i>ACS Applied Materials & Interfaces</i> , 2016, 8, 9662-9673.	8.0	79
237	Rapid Activation of Platinum with Black Phosphorus for Efficient Hydrogen Evolution. <i>Angewandte Chemie - International Edition</i> , 2019, 58, 19060-19066.	13.8	79
238	A Low-Cost Metal-Free Photocatalyst Based on Black Phosphorus. <i>Advanced Science</i> , 2019, 6, 1801321.	11.2	79
239	Structure and mechanical properties of magnesium alloy treated by micro-arc discharge oxidation using direct current and high-frequency bipolar pulsing modes. <i>Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2006, 435-436, 123-126.	5.6	78
240	Mechanical and tribological properties of TiC/amorphous hydrogenated carbon composite coatings fabricated by DC magnetron sputtering with and without sample bias. <i>Diamond and Related Materials</i> , 2007, 16, 181-186.	3.9	78
241	Magnetic and upconverted luminescent properties of multifunctional lanthanide doped cubic KGdF ₄ nanocrystals. <i>Nanoscale</i> , 2010, 2, 2805.	5.6	78
242	Folate-bovine serum albumin functionalized polymeric micelles loaded with superparamagnetic iron oxide nanoparticles for tumor targeting and magnetic resonance imaging. <i>Acta Biomaterialia</i> , 2015, 15, 117-126.	8.3	77
243	Oxygen Vacancy Enhanced Gas-Sensing Performance of CeO ₂ /Graphene Heterostructure at Room Temperature. <i>Analytical Chemistry</i> , 2018, 90, 9821-9829.	6.5	77
244	Luminescence from colloidal 3C-SiC nanocrystals in different solvents. <i>Applied Physics Letters</i> , 2006, 88, 041909.	3.3	76
245	Current transport studies of ZnO ⁿ -p-Si heterostructures grown by plasma immersion ion implantation and deposition. <i>Applied Physics Letters</i> , 2006, 88, 132104.	3.3	76
246	Amorphous nickel/cobalt tungsten sulfide electrocatalysts for high-efficiency hydrogen evolution reaction. <i>Applied Surface Science</i> , 2015, 341, 149-156.	6.1	76
247	Tannic Acid/Fe ³⁺ /Ag Nanofilm Exhibiting Superior Photodynamic and Physical Antibacterial Activity. <i>ACS Applied Materials & Interfaces</i> , 2017, 9, 39657-39671.	8.0	76
248	Hierarchical CoMoO ₄ @Co ₃ O ₄ nanocomposites on an ordered macro-porous electrode plate as a multi-dimensional electrode in high-performance supercapacitors. <i>Journal of Materials Chemistry A</i> , 2017, 5, 17312-17324.	10.3	76
249	Utilization of coal fly ash in China: a mini-review on challenges and future directions. <i>Environmental Science and Pollution Research</i> , 2021, 28, 18727-18740.	5.3	76
250	Corrosion resistance improvement of magnesium alloy using nitrogen plasma ion implantation. <i>Surface and Coatings Technology</i> , 2005, 198, 454-458.	4.8	75
251	Ion implantation of organisms. <i>Materials Science and Engineering Reports</i> , 2006, 54, 49-120.	31.8	75
252	Antibacterial properties of plasma-modified and triclosan or bronopol coated polyethylene. <i>Polymer</i> , 2006, 47, 931-936.	3.8	75

#	ARTICLE	IF	CITATIONS
253	Plasmonic nano-lasers. <i>Nano Energy</i> , 2012, 1, 25-41.	16.0	75
254	Multilayered paper-like electrodes composed of alternating stacked mesoporous Mo ₂ N nanobelts and reduced graphene oxide for flexible all-solid-state supercapacitors. <i>Journal of Materials Chemistry A</i> , 2015, 3, 14617-14624.	10.3	75
255	Bimodal optical diagnostics of oral cancer based on Rose Bengal conjugated gold nanorod platform. <i>Biomaterials</i> , 2013, 34, 4274-4283.	11.4	74
256	Electrochemically-deposited nanostructured Co(OH) ₂ flakes on three-dimensional ordered nickel/silicon microchannel plates for miniature supercapacitors. <i>Journal of Materials Chemistry A</i> , 2013, 1, 532-540.	10.3	74
257	Theoretical assessment of a highly sensitive photonic crystal fibre based on surface plasmon resonance sensor operating in the near-infrared wavelength. <i>Journal of Modern Optics</i> , 2019, 66, 1-6.	1.3	74
258	Plasma modified Mg-Nd-Zr alloy with enhanced surface corrosion resistance. <i>Corrosion Science</i> , 2014, 78, 121-129.	6.6	73
259	Self-assembly of mesoporous ZnCo ₂ O ₄ nanomaterials: density functional theory calculation and flexible all-solid-state energy storage. <i>Journal of Materials Chemistry A</i> , 2016, 4, 568-577.	10.3	73
260	Hydrogen induced silicon surface layer cleavage. <i>Applied Physics Letters</i> , 1997, 71, 1804-1806.	3.3	72
261	Plasma-Treated Biomaterials. <i>IEEE Transactions on Plasma Science</i> , 2007, 35, 181-187.	1.3	72
262	Texture evolution in cold-rolled AZ31 magnesium alloy during electropulsing treatment. <i>Journal of Alloys and Compounds</i> , 2009, 487, 309-313.	5.5	72
263	Surface structure and properties of biomedical NiTi shape memory alloy after Fenton's oxidation. <i>Acta Biomaterialia</i> , 2007, 3, 795-806.	8.3	71
264	Poly(ethylene glycol)/carbon quantum dot composite solid films exhibiting intense and tunable blue-red emission. <i>Applied Surface Science</i> , 2014, 311, 490-497.	6.1	71
265	Seamless lateral graphene pn junctions formed by selective in situ doping for high-performance photodetectors. <i>Nature Communications</i> , 2018, 9, 5168.	12.8	71
266	Ultrafine Co nanodots embedded in N-doped carbon nanotubes grafted on hexagonal VN for highly efficient overall water splitting. <i>Nano Energy</i> , 2020, 73, 104788.	16.0	71
267	Direct and Large-Area Growth of One-Dimensional ZnO Nanostructures from and on a Brass Substrate. <i>Journal of Physical Chemistry C</i> , 2007, 111, 5876-5881.	3.1	70
268	Balancing the Osteogenic and Antibacterial Properties of Titanium by Codoping of Mg and Ag: An in Vitro and in Vivo Study. <i>ACS Applied Materials & Interfaces</i> , 2015, 7, 17826-17836.	8.0	70
269	A Highly Sensitive Dual-Core Photonic Crystal Fiber Based on a Surface Plasmon Resonance Biosensor with Silver-Graphene Layer. <i>Plasmonics</i> , 2017, 12, 1847-1853.	3.4	70
270	Decorated ultrathin bismuth selenide nanosheets as targeted theranostic agents for in vivo imaging guided cancer radiation therapy. <i>NPG Asia Materials</i> , 2017, 9, e439-e439.	7.9	70

#	ARTICLE	IF	CITATIONS
271	Tailored Plum Pudding-Like Co ₂ P/Sn Encapsulated with Carbon Nanobox Shell as Superior Anode Materials for High-Performance Sodium-Ion Capacitors. <i>Advanced Energy Materials</i> , 2019, 9, 1900091.	19.5	70
272	Surface plasmon resonance sensor based on photonic crystal fiber with indium tin oxide film. <i>Optical Materials</i> , 2020, 102, 109800.	3.6	70
273	Synthesis and magnetic properties of Zn _{1-x} CoxO nanorods. <i>Journal of Applied Physics</i> , 2006, 99, 074303.	2.5	69
274	Thermal stability of titania films prepared on titanium by micro-arc oxidation. <i>Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2008, 476, 78-82.	5.6	69
275	Recyclable and High-Sensitivity Electrochemical Biosensing Platform Composed of Carbon-Doped TiO ₂ Nanotube Arrays. <i>Analytical Chemistry</i> , 2011, 83, 8138-8144.	6.5	69
276	Preparation and characterization of Cu ₂ O-ZnO immobilized on diatomite for photocatalytic treatment of red water produced from manufacturing of TNT. <i>Chemical Engineering Journal</i> , 2011, 171, 61-68.	12.7	69
277	Restoration of chemosensitivity by multifunctional micelles mediated by P-gp siRNA to reverse MDR. <i>Biomaterials</i> , 2014, 35, 8621-8634.	11.4	69
278	Bactericidal Effects of Plasma Induced Reactive Species in Dielectric Barrier Gas-Liquid Discharge. <i>Plasma Chemistry and Plasma Processing</i> , 2017, 37, 415-431.	2.4	69
279	Two-Dimensional Transition Metal Chalcogenides for Alkali Metal Ions Storage. <i>ChemSusChem</i> , 2020, 13, 1114-1154.	6.8	69
280	Photoelectrochemical Synthesis of Ammonia with Black Phosphorus. <i>Advanced Functional Materials</i> , 2020, 30, 2002731.	14.9	69
281	Regulation of extracellular bioactive cations in bone tissue microenvironment induces favorable osteoimmune conditions to accelerate in situ bone regeneration. <i>Bioactive Materials</i> , 2021, 6, 2315-2330.	15.6	69
282	Corrosion resistance of titanium ion implanted AZ91 magnesium alloy. <i>Journal of Vacuum Science and Technology A: Vacuum, Surfaces and Films</i> , 2007, 25, 334-339.	2.1	68
283	Osteoblast behavior on polytetrafluoroethylene modified by long pulse, high frequency oxygen plasma immersion ion implantation. <i>Biomaterials</i> , 2010, 31, 413-419.	11.4	68
284	Characteristics of DC Gas-Liquid Phase Atmospheric-Pressure Plasma and Bacteria Inactivation Mechanism. <i>Plasma Processes and Polymers</i> , 2015, 12, 252-259.	3.0	68
285	Optical and Optoelectronic Properties of Black Phosphorus and Recent Photonic and Optoelectronic Applications. <i>Small Methods</i> , 2019, 3, 1900165.	8.6	68
286	Surface plasmon resonance chemical sensor composed of a microstructured optical fiber for the detection of an ultra-wide refractive index range and gas-liquid pollutants. <i>Optics Express</i> , 2021, 29, 40734.	3.4	68
287	Enhancement of surface properties of biomaterials using plasma-based technologies. <i>Surface and Coatings Technology</i> , 2007, 201, 8076-8082.	4.8	67
288	Intracellular pathways and nuclear localization signal peptide-mediated gene transfection by cationic polymeric nanovectors. <i>Biomaterials</i> , 2012, 33, 1135-1145.	11.4	67

#	ARTICLE	IF	CITATIONS
289	Characteristics of atmospheric-pressure non-thermal N ₂ and N ₂ /O ₂ gas mixture plasma jet. <i>Journal of Applied Physics</i> , 2014, 115, 033303.	2.5	67
290	Self-assembled magnetic fluorescent polymeric micelles for magnetic resonance and optical imaging. <i>Biomaterials</i> , 2014, 35, 344-355.	11.4	67
291	Hierarchical TiN nanoparticles-assembled nanopillars for flexible supercapacitors with high volumetric capacitance. <i>Nanoscale</i> , 2018, 10, 8728-8734.	5.6	67
292	Self-assembled anodization of NiTi alloys for biomedical applications. <i>Applied Surface Science</i> , 2020, 517, 146118.	6.1	67
293	From Si nanotubes to nanowires: Synthesis, characterization, and self-assembly. <i>Journal of Crystal Growth</i> , 2005, 277, 143-148.	1.5	66
294	Improvement of surface porosity and properties of alumina films by incorporation of Fe micrograins in micro-arc oxidation. <i>Applied Surface Science</i> , 2006, 253, 863-868.	6.1	66
295	Self-organized formation of silver nanowires, nanocubes and bipyramids via a solvothermal method. <i>Acta Materialia</i> , 2008, 56, 2508-2513.	7.9	66
296	Bioactivity of titanium following sodium plasma immersion ion implantation and deposition. <i>Biomaterials</i> , 2005, 26, 5465-5473.	11.4	65
297	Electrochemical Behavior Al ₂ O ₃ •Al Coated Surgical AZ91 Magnesium Alloy in Simulated Body Fluids. <i>Journal of the Electrochemical Society</i> , 2008, 155, C178.	2.9	65
298	Optical identification of oxygen vacancy types in SnO ₂ nanocrystals. <i>Applied Physics Letters</i> , 2013, 102, .	3.3	65
299	Effects of silicon plasma ion implantation on electrochemical corrosion behavior of biodegradable Mg-RE Alloy. <i>Corrosion Science</i> , 2013, 69, 158-163.	6.6	65
300	Surface nano-architectures and their effects on the mechanical properties and corrosion behavior of Ti-based orthopedic implants. <i>Surface and Coatings Technology</i> , 2013, 233, 13-26.	4.8	65
301	Electrochemical properties and corrosion resistance of carbon-ion-implanted magnesium. <i>Corrosion Science</i> , 2014, 82, 173-179.	6.6	65
302	Highly porous honeycomb manganese oxide@carbon fibers core-shell nanocables for flexible supercapacitors. <i>Nano Energy</i> , 2015, 13, 47-57.	16.0	65
303	Ag/AgBr-loaded mesoporous silica for rapid sterilization and promotion of wound healing. <i>Biomaterials Science</i> , 2018, 6, 1735-1744.	5.4	65
304	Lanthanide-Coordinated Black Phosphorus. <i>Small</i> , 2018, 14, e1801405.	10.0	65
305	Synthesis of tetragonal prismatic In ₂ Se ₃ nanostructures with predominantly {110} facets and photocatalytic degradation of tetracycline. <i>Applied Catalysis B: Environmental</i> , 2020, 260, 118218.	20.2	65
306	Ultrathin hybrid nanobelts of single-crystalline VO ₂ and Poly(3,4-ethylenedioxythiophene) as cathode materials for aqueous zinc ion batteries with large capacity and high-rate capability. <i>Journal of Power Sources</i> , 2020, 463, 228223.	7.8	65

#	ARTICLE	IF	CITATIONS
307	Graphene-encapsulated blackberry-like porous silicon nanospheres prepared by modest magnesiothermic reduction for high-performance lithium-ion battery anode. <i>Rare Metals</i> , 2021, 40, 383-392.	7.1	65
308	Overview of refractive index sensors comprising photonic crystal fibers based on the surface plasmon resonance effect [Invited]. <i>Chinese Optics Letters</i> , 2021, 19, 102202.	2.9	65
309	Plasma Surface Functionalized Polyetheretherketone for Enhanced Osseo-Integration at Bone-Implant Interface. <i>ACS Applied Materials & Interfaces</i> , 2016, 8, 3901-3911.	8.0	64
310	Dimensional-dependent antibacterial behavior on bioactive micro/nano polyetheretherketone (PEEK) arrays. <i>Chemical Engineering Journal</i> , 2020, 392, 123736.	12.7	64
311	Cationic fluorine-containing amphiphilic graft copolymers as DNA carriers. <i>Biomaterials</i> , 2010, 31, 2673-2685.	11.4	63
312	Improved corrosion resistance and cytocompatibility of magnesium alloy by two-stage cooling in thermal treatment. <i>Corrosion Science</i> , 2012, 59, 360-365.	6.6	63
313	Silicon Carbide Nanostructures. <i>Engineering Materials and Processes</i> , 2014, , .	0.4	63
314	Inactivation Effects of Non-Thermal Atmospheric-Pressure Helium Plasma Jet on <i>Staphylococcus aureus</i> Biofilms. <i>Plasma Processes and Polymers</i> , 2015, 12, 827-835.	3.0	63
315	Cell-borne 2D nanomaterials for efficient cancer targeting and photothermal therapy. <i>Biomaterials</i> , 2017, 133, 37-48.	11.4	63
316	Black phosphorus: a two-dimensional reductant for in situ nanofabrication. <i>Npj 2D Materials and Applications</i> , 2017, 1, .	7.9	63
317	In vitro antimicrobial effects and mechanisms of direct current air-liquid discharge plasma on planktonic <i>Staphylococcus aureus</i> and <i>Escherichia coli</i> in liquids. <i>Bioelectrochemistry</i> , 2018, 121, 125-134.	4.6	63
318	Conductive Mesoporous Niobium Nitride Microspheres/Nitrogen-Doped Graphene Hybrid with Efficient Polysulfide Anchoring and Catalytic Conversion for High-Performance Lithium-Sulfur Batteries. <i>ACS Applied Materials & Interfaces</i> , 2019, 11, 2961-2969.	8.0	63
319	Preparation and characterization of fluorinated acrylate copolymer latexes by miniemulsion polymerization under microwave irradiation. <i>Journal of Fluorine Chemistry</i> , 2010, 131, 417-425.	1.7	62
320	Ni-Cr Co-implanted 316L stainless steel as bipolar plate in polymer electrolyte membrane fuel cells. <i>International Journal of Hydrogen Energy</i> , 2010, 35, 690-700.	7.1	62
321	Paper-based plasmonic platform for sensitive, noninvasive, and rapid cancer screening. <i>Biosensors and Bioelectronics</i> , 2014, 54, 128-134.	10.1	62
322	Extracellular Electron Transfer from Aerobic Bacteria to Au-Loaded TiO ₂ Semiconductor without Light: A New Bacteria-Killing Mechanism Other than Localized Surface Plasmon Resonance or Microbial Fuel Cells. <i>ACS Applied Materials & Interfaces</i> , 2016, 8, 24509-24516.	8.0	62
323	Large-Scale Synthesis and Mechanism of β -SiC Nanoparticles from Rice Husks by Low-Temperature Magnesiothermic Reduction. <i>ACS Sustainable Chemistry and Engineering</i> , 2016, 4, 6600-6607.	6.7	62
324	Enhancement of toughness and wear resistance by CrN/CrCN multilayered coatings for wood processing. <i>Surface and Coatings Technology</i> , 2018, 344, 204-213.	4.8	62

#	ARTICLE	IF	CITATIONS
325	Experimental and theoretical investigation of reconstruction and active phases on honeycombed Ni ₃ N-Co ₃ N/C in water splitting. <i>Applied Catalysis B: Environmental</i> , 2021, 297, 120461.	20.2	62
326	Plasma surface treatment of artificial orthopedic and cardiovascular biomaterials. <i>Surface and Coatings Technology</i> , 2007, 201, 5601-5606.	4.8	61
327	Plasma-Modified Biomaterials for Self-Antimicrobial Applications. <i>ACS Applied Materials & Interfaces</i> , 2011, 3, 2851-2860.	8.0	61
328	Hierarchical 3-dimensional CoMoO ₄ nanoflakes on a macroporous electrically conductive network with superior electrochemical performance. <i>Journal of Materials Chemistry A</i> , 2015, 3, 13776-13785.	10.3	61
329	Free-standing electrodes composed of carbon-coated Li ₄ Ti ₅ O ₁₂ nanosheets and reduced graphene oxide for advanced sodium ion batteries. <i>Journal of Power Sources</i> , 2017, 337, 180-188.	7.8	61
330	Intergrowth mechanism of silicon nanowires and silver dendrites. <i>Journal of Electronic Materials</i> , 2006, 35, 1879-1884.	2.2	60
331	One-step growth and field emission properties of quasialigned TiO ₂ nanowire/carbon nanocone core-shell nanostructure arrays on Ti substrates. <i>Applied Physics Letters</i> , 2008, 93, .	3.3	60
332	Removal of organic materials from TNT red water by Bamboo Charcoal adsorption. <i>Chemical Engineering Journal</i> , 2012, 193-194, 39-49.	12.7	60
333	Facile design of ultra-thin anodic aluminum oxide membranes for the fabrication of plasmonic nanoarrays. <i>Nanotechnology</i> , 2017, 28, 105301.	2.6	60
334	Neuromorphic Computing with Memristor Crossbar. <i>Physica Status Solidi (A) Applications and Materials Science</i> , 2018, 215, 1700875.	1.8	60
335	Achieving an acid resistant surface on magnesium alloy via bio-inspired design. <i>Applied Surface Science</i> , 2019, 478, 150-161.	6.1	60
336	Surface plasmon resonance sensor based on coupling effects of dual photonic crystal fibers for low refractive indexes detection. <i>Results in Physics</i> , 2020, 18, 103240.	4.1	60
337	Synthesis and Field Emission Properties of Rutile TiO ₂ Nanowires Arrays Grown Directly on a Ti Metal Self-Source Substrate. <i>Journal of Nanoscience and Nanotechnology</i> , 2009, 9, 3341-3346.	0.9	59
338	Corrosion behavior of NiTi alloy in fetal bovine serum. <i>Electrochimica Acta</i> , 2010, 55, 5551-5560.	5.2	59
339	Retardation of surface corrosion of biodegradable magnesium-based materials by aluminum ion implantation. <i>Applied Surface Science</i> , 2012, 258, 7651-7657.	6.1	59
340	Heterostructured TiO ₂ Nanoparticles/Nanotube Arrays: In-Situ Formation from Amorphous TiO ₂ Nanotube Arrays in Water and Enhanced Photocatalytic Activity. <i>ChemPlusChem</i> , 2012, 77, 323-329.	2.8	59
341	Microstructure evolution and mechanical properties of vacuum-brazed C/C composite with AgCuTi foil. <i>Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2013, 564, 192-198.	5.6	59
342	Aluminum plasmonic photocatalysis. <i>Scientific Reports</i> , 2015, 5, 15288.	3.3	59

#	ARTICLE	IF	CITATIONS
343	Mitigation of Corrosion on Magnesium Alloy by Predesigned Surface Corrosion. <i>Scientific Reports</i> , 2015, 5, 17399.	3.3	59
344	A highly temperature-sensitive photonic crystal fiber based on surface plasmon resonance. <i>Optics Communications</i> , 2016, 359, 378-382.	2.1	59
345	Graphene for Energy Storage and Conversion: Synthesis and Interdisciplinary Applications. <i>Electrochemical Energy Reviews</i> , 2020, 3, 395-430.	25.5	59
346	Surface-enhanced Raman characteristics of Ag cap aggregates on silicon nanowire arrays. <i>Nanotechnology</i> , 2006, 17, 5769-5772.	2.6	58
347	Corrosion resistance and cytocompatibility of biodegradable surgical magnesium alloy coated with hydrogenated amorphous silicon. <i>Journal of Biomedical Materials Research - Part A</i> , 2009, 89A, 717-726.	4.0	58
348	Glycerol-Bonded 3C-SiC Nanocrystal Solid Films Exhibiting Broad and Stable Violet to Blue-Green Emission. <i>Nano Letters</i> , 2010, 10, 1466-1471.	9.1	58
349	Improved surface corrosion resistance of WE43 magnesium alloy by dual titanium and oxygen ion implantation. <i>Thin Solid Films</i> , 2013, 529, 407-411.	1.8	58
350	Engineered polycaprolactone-magnesium hybrid biodegradable porous scaffold for bone tissue engineering. <i>Progress in Natural Science: Materials International</i> , 2014, 24, 561-567.	4.4	58
351	Facet Cutting and Hydrogenation of In ₂ O ₃ Nanowires for Enhanced Photoelectrochemical Water Splitting. <i>ACS Applied Materials & Interfaces</i> , 2014, 6, 4081-4088.	8.0	58
352	Synthesis of mesoporous niobium nitride nanobelt arrays and their capacitive properties. <i>Applied Surface Science</i> , 2016, 383, 57-63.	6.1	58
353	Different-sized black phosphorus nanosheets with good cytocompatibility and high photothermal performance. <i>RSC Advances</i> , 2017, 7, 14618-14624.	3.6	58
354	High-performance asymmetrical supercapacitor composed of rGO-enveloped nickel phosphite hollow spheres and N/S co-doped rGO aerogel. <i>Nano Research</i> , 2018, 11, 1651-1663.	10.4	58
355	Highly Fluorescent and Stable Black Phosphorus Quantum Dots in Water. <i>Small</i> , 2018, 14, e1803132.	10.0	58
356	Crystalline Red Phosphorus Nanoribbons: Large-scale Synthesis and Electrochemical Nitrogen Fixation. <i>Angewandte Chemie - International Edition</i> , 2020, 59, 14383-14387.	13.8	58
357	Strategies to improve cobalt-based electrocatalysts for electrochemical water splitting. <i>Journal of Catalysis</i> , 2021, 398, 54-66.	6.2	58
358	Corrosion products on biomedical magnesium alloy soaked in simulated body fluids. <i>Journal of Materials Research</i> , 2009, 24, 2711-2719.	2.6	57
359	Osteogenesis Catalyzed by Titanium-Supported Silver Nanoparticles. <i>ACS Applied Materials & Interfaces</i> , 2017, 9, 5149-5157.	8.0	57
360	In vitro degradation kinetics of pure PLA and Mg/PLA composite: Effects of immersion temperature and compression stress. <i>Acta Biomaterialia</i> , 2017, 48, 468-478.	8.3	57

#	ARTICLE	IF	CITATIONS
361	Degradable and Photocatalytic Antibacterial Au-TiO ₂ /Sodium Alginate Nanocomposite Films for Active Food Packaging. <i>Nanomaterials</i> , 2018, 8, 930.	4.1	57
362	Edge-Rich Black Phosphorus for Photocatalytic Nitrogen Fixation. <i>Journal of Physical Chemistry Letters</i> , 2020, 11, 1052-1058.	4.6	57
363	Self-protection against corrosion of aged magnesium alloy in simulated physiological environment. <i>Corrosion Science</i> , 2013, 68, 279-285.	6.6	56
364	Nanostructured titanium-silver coatings with good antibacterial activity and cytocompatibility fabricated by one-step magnetron sputtering. <i>Applied Surface Science</i> , 2015, 355, 32-44.	6.1	56
365	Effects of annealing ambient on oxygen vacancies and phase transition temperature of VO ₂ thin films. <i>RSC Advances</i> , 2016, 6, 79383-79388.	3.6	56
366	Direct anodic exfoliation of graphite onto high-density aligned graphene for large capacity supercapacitors. <i>Nano Energy</i> , 2017, 34, 515-523.	16.0	56
367	General synthesis of NiCo alloy nanochain arrays with thin oxide coating: a highly efficient bifunctional electrocatalyst for overall water splitting. <i>Journal of Alloys and Compounds</i> , 2019, 797, 1216-1223.	5.5	56
368	Direct Synthesis of Metal-Doped Phosphorene with Enhanced Electrocatalytic Hydrogen Evolution. <i>Small Methods</i> , 2019, 3, 1900083.	8.6	56
369	Biodegradable Bi ₂ O ₂ Se Quantum Dots for Photoacoustic Imaging-Guided Cancer Photothermal Therapy. <i>Small</i> , 2020, 16, e1905208.	10.0	56
370	Mediated Drug Release from Nanovehicles by Black Phosphorus Quantum Dots for Efficient Therapy of Chronic Obstructive Pulmonary Disease. <i>Angewandte Chemie - International Edition</i> , 2020, 59, 20568-20576.	13.8	56
371	Hierarchical Porous Carbon Materials Derived from Self-Template Bamboo Leaves for Lithium-Sulfur Batteries. <i>Electrochimica Acta</i> , 2017, 229, 352-360.	5.2	55
372	In-Plane Black Phosphorus/Dicobalt Phosphide Heterostructure for Efficient Electrocatalysis. <i>Angewandte Chemie</i> , 2018, 130, 2630-2634.	2.0	55
373	Plasma surface modification of titanium for hard tissue replacements. <i>Surface and Coatings Technology</i> , 2004, 186, 227-233.	4.8	54
374	Are all atmospheric pressure cold plasma jets electrically driven?. <i>Applied Physics Letters</i> , 2012, 100, .	3.3	54
375	C/CrN multilayer coating for polymer electrolyte membrane fuel cell metallic bipolar plates. <i>Journal of Power Sources</i> , 2013, 222, 351-358.	7.8	54
376	Octahedral SnO ₂ /Graphene Composites with Enhanced Gas-Sensing Performance at Room Temperature. <i>ACS Applied Materials & Interfaces</i> , 2019, 11, 12958-12967.	8.0	54
377	Recent advances of two-dimensional transition metal nitrides for energy storage and conversion applications. <i>FlatChem</i> , 2020, 19, 100149.	5.6	54
378	Antimicrobial polyethylene with controlled copper release. <i>Journal of Biomedical Materials Research - Part A</i> , 2007, 83A, 838-844.	4.0	53

#	ARTICLE	IF	CITATIONS
379	Amperometric glucose sensor based on 3D ordered nickel-palladium nanomaterial supported by silicon MCP array. <i>Sensors and Actuators B: Chemical</i> , 2009, 141, 338-342.	7.8	53
380	Hot spots in highly Raman-enhancing silver nano-dendrites. <i>Journal Physics D: Applied Physics</i> , 2009, 42, 175403.	2.8	53
381	Effect of titanium incorporation on the structural, mechanical and biocompatible properties of DLC thin films prepared by reactive-biased target ion beam deposition method. <i>Applied Surface Science</i> , 2010, 257, 143-150.	6.1	53
382	Corrosion products and mechanism on NiTi shape memory alloy in physiological environment. <i>Journal of Materials Research</i> , 2010, 25, 350-358.	2.6	53
383	Cuprous oxide created on sepiolite: Preparation, characterization, and photocatalytic activity in treatment of red water from 2,4,6-trinitrotoluene manufacturing. <i>Journal of Hazardous Materials</i> , 2012, 217-218, 11-18.	12.4	53
384	Effects of zirconium and nitrogen plasma immersion ion implantation on the electrochemical corrosion behavior of Mg-Y-RE alloy in simulated body fluid and cell culture medium. <i>Corrosion Science</i> , 2014, 86, 239-251.	6.6	53
385	Emission from Trions in Carbon Quantum Dots. <i>Journal of Physical Chemistry C</i> , 2015, 119, 2956-2962.	3.1	53
386	CVD Growth of Graphene on NiTi Alloy for Enhanced Biological Activity. <i>ACS Applied Materials & Interfaces</i> , 2015, 7, 19876-19881.	8.0	53
387	Excellent corrosion resistance of P and Fe modified micro-arc oxidation coating on Al alloy. <i>Journal of Alloys and Compounds</i> , 2017, 710, 452-459.	5.5	53
388	Synthesis of lipid-black phosphorus quantum dot bilayer vesicles for near-infrared-controlled drug release. <i>Chemical Communications</i> , 2018, 54, 6060-6063.	4.1	53
389	Synthesis of high-quality black phosphorus sponges for all-solid-state supercapacitors. <i>Materials Horizons</i> , 2019, 6, 176-181.	12.2	53
390	Biocompatibility of calcium and phosphorus doped diamond-like carbon thin films synthesized by plasma immersion ion implantation and deposition. <i>Diamond and Related Materials</i> , 2006, 15, 893-897.	3.9	52
391	On the origin of light emission from porous anodic alumina formed in sulfuric acid. <i>Solid State Communications</i> , 2006, 137, 621-624.	1.9	52
392	Mechanism of cell repulsion on quasi-aligned nanowire arrays on Ti alloy. <i>Biomaterials</i> , 2010, 31, 8341-8349.	11.4	52
393	Amplification of localized surface plasmon resonance signals by a gold nanorod assembly and ultra-sensitive detection of mercury. <i>Chemical Communications</i> , 2011, 47, 6897.	4.1	52
394	Corrosion behavior on orthopedic NiTi alloy with nanocrystalline/amorphous surface. <i>Materials Chemistry and Physics</i> , 2011, 126, 102-107.	4.0	52
395	High-current anodization: A novel strategy to functionalize titanium-based biomaterials. <i>Electrochimica Acta</i> , 2015, 173, 345-353.	5.2	52
396	Fabrication of Ni-Ti-O nanotube arrays by anodization of NiTi alloy and their potential applications. <i>Scientific Reports</i> , 2014, 4, 7547.	3.3	52

#	ARTICLE	IF	CITATIONS
397	Immobilization of Ag nanoparticles/FGFâ€² on a modified titanium implant surface and improved human gingival fibroblasts behavior. Journal of Biomedical Materials Research - Part A, 2011, 98A, 274-286.	4.0	51
398	Non-enzymatic hydrogen peroxide photoelectrochemical sensor based on WO ₃ decorated coreâ€“shell TiC/C nanofibers electrode. Electrochimica Acta, 2013, 108, 491-496.	5.2	51
399	Microstructure and mechanical properties of C/C composite/TC4 joint with inactive AgCu filler metal. Ceramics International, 2015, 41, 7021-7027.	4.8	51
400	Metabolizable Small Gold Nanorods: Size-dependent Cytotoxicity, Cell Uptake and <i>In Vivo</i> Biodistribution. ACS Biomaterials Science and Engineering, 2016, 2, 789-797.	5.2	51
401	Modulation of the mechanosensing of mesenchymal stem cells by laser-induced patterning for the acceleration of tissue reconstruction through the Wnt/ β^2 -catenin signaling pathway activation. Acta Biomaterialia, 2020, 101, 152-167.	8.3	51
402	Photochemical Activity of Black Phosphorus for Nearâ€“infrared Light Controlled In Situ Biom mineralization. Advanced Science, 2020, 7, 2000439.	11.2	51
403	Formation of titanium nitride barrier layer in nickelâ€“titanium shape memory alloys by nitrogen plasma immersion ion implantation for better corrosion resistance. Thin Solid Films, 2005, 488, 20-25.	1.8	50
404	Controlled Patterning of Plasmonic Dimers by Using an Ultrathin Nanoporous Alumina Membrane as a Shadow Mask. ACS Applied Materials & Interfaces, 2017, 9, 36199-36205.	8.0	50
405	Birefringent PCF-Based SPR Sensor for a Broad Range of Low Refractive Index Detection. IEEE Photonics Technology Letters, 2018, 30, 1471-1474.	2.5	50
406	Surface modification of polymeric materials by plasma immersion ion implantation. Nuclear Instruments & Methods in Physics Research B, 2005, 237, 417-421.	1.4	49
407	Label-free optical biosensor based on localized surface plasmon resonance of immobilized gold nanorods. Colloids and Surfaces B: Biointerfaces, 2009, 71, 96-101.	5.0	49
408	Carbon coated stainless steel bipolar plates in polymer electrolyte membrane fuel cells. Diamond and Related Materials, 2010, 19, 1354-1361.	3.9	49
409	Controllable degradation of biomedical magnesium by chromium and oxygen dual ion implantation. Materials Letters, 2011, 65, 2171-2173.	2.6	49
410	Electrochemically deposited chitosan/Ag complex coatings on biomedical NiTi alloy for antibacterial application. Surface and Coatings Technology, 2013, 232, 370-375.	4.8	49
411	Enhanced Photocatalytic Oxygen Evolution by Crystal Cutting. Advanced Materials, 2013, 25, 2035-2039.	21.0	49
412	Cubic In₂O₃ Microparticles for Efficient Photoelectrochemical Oxygen Evolution. Journal of Physical Chemistry Letters, 2014, 5, 4298-4304.	4.6	49
413	Heterogeneous phosphorus-doped WO₃/nitrogen-doped carbon nanowires with high rate and long life for advanced lithium-ion capacitors. Journal of Materials Chemistry A, 2018, 6, 6916-6921.	10.3	49
414	Recent advances in structural engineering of 2D hexagonal boron nitride electrocatalysts. Nano Energy, 2022, 91, 106661.	16.0	49

#	ARTICLE	IF	CITATIONS
415	Ti ₃ C ₂ T _x MXene Modified with ZnTCPP with Bacteria Capturing Capability and Enhanced Visible Light Photocatalytic Antibacterial Activity. Small, 2022, 18, .	10.0	49
416	Structure and properties of zirconia (ZrO ₂) films fabricated by plasma-assisted cathodic arc deposition. Journal Physics D: Applied Physics, 2007, 40, 2293-2299.	2.8	48
417	An eco-friendly and cleaner process for preparing architectural ceramics from coal fly ash: Pre-activation of coal fly ash by a mechanochemical method. Journal of Cleaner Production, 2019, 214, 419-428.	9.3	48
418	Anti-corrosion performance of oxidized and oxygen plasma-implanted NiTi alloys. Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing, 2005, 390, 444-451.	5.6	47
419	Structure and microwave-absorbing properties of Fe-particle containing alumina prepared by micro-arc discharge oxidation. Surface and Coatings Technology, 2006, 201, 292-295.	4.8	47
420	Rapid degradation of biomedical magnesium induced by zinc ion implantation. Materials Letters, 2011, 65, 661-663.	2.6	47
421	Tailoring of Mesenchymal Stem Cells Behavior on Plasma-Modified Polytetrafluoroethylene. Advanced Materials, 2012, 24, 3315-3324.	21.0	47
422	Effects of surface alloying on electrochemical corrosion behavior of oxygen-plasma-modified biomedical magnesium alloy. Surface and Coatings Technology, 2012, 206, 3186-3195.	4.8	47
423	Size-dependent corrosion behavior and cytocompatibility of Ni-Ti-O nanotubes prepared by anodization of biomedical NiTi alloy. Corrosion Science, 2016, 103, 173-180.	6.6	47
424	Hierarchical porous carbon materials from nanosized metal-organic complex for high-performance symmetrical supercapacitor. Electrochimica Acta, 2018, 269, 580-589.	5.2	47
425	Orthopedic Implants. , 2019, , 425-439.		47
426	Three-dimensional carbon-coating silicon nanoparticles welded on carbon nanotubes composites for high-stability lithium-ion battery anodes. Applied Surface Science, 2019, 479, 896-902.	6.1	47
427	Molybdenum diselenide "black phosphorus heterostructures for electrocatalytic hydrogen evolution. Applied Surface Science, 2019, 467-468, 328-334.	6.1	47
428	Atomic-Scale Intercalation of Graphene Layers into MoSe ₂ Nanoflower Sheets as a Highly Efficient Catalyst for Hydrogen Evolution Reaction. ACS Applied Materials & Interfaces, 2020, 12, 2460-2468.	8.0	47
429	Improvements of anti-corrosion and mechanical properties of NiTi orthopedic materials by acetylene, nitrogen and oxygen plasma immersion ion implantation. Nuclear Instruments & Methods in Physics Research B, 2005, 237, 411-416.	1.4	46
430	Thermal stability of metal-doped diamond-like carbon fabricated by dual plasma deposition. Diamond and Related Materials, 2005, 14, 1489-1493.	3.9	46
431	Characteristics and surface energy of silicon-doped diamond-like carbon films fabricated by plasma immersion ion implantation and deposition. Diamond and Related Materials, 2006, 15, 1276-1281.	3.9	46
432	Preparation and characterization of novel nickel-palladium electrodes supported by silicon microchannel plates for direct methanol fuel cells. Journal of Power Sources, 2010, 195, 146-150.	7.8	46

#	ARTICLE	IF	CITATIONS
433	Electron density measurements of atmospheric-pressure non-thermal N ₂ plasma jet by Stark broadening and irradiance intensity methods. <i>Physics of Plasmas</i> , 2014, 21, .	1.9	46
434	Functionalized Polymeric Membrane with Enhanced Mechanical and Biological Properties to Control the Degradation of Magnesium Alloy. <i>Advanced Healthcare Materials</i> , 2017, 6, 1601269.	7.6	46
435	Se-NiSe ₂ hybrid nanosheet arrays with self-regulated elemental Se for efficient alkaline water splitting. <i>Journal of Materials Science and Technology</i> , 2022, 118, 136-143.	10.7	46
436	Surface composition and surface energy of Teflon treated by metal plasma immersion ion implantation. <i>Surface Science</i> , 2004, 573, 426-432.	1.9	45
437	Hemocompatibility of nitrogen-doped, hydrogen-free diamond-like carbon prepared by nitrogen plasma immersion ion implantation-deposition. <i>Journal of Biomedical Materials Research Part B</i> , 2004, 70A, 107-114.	3.1	45
438	Surface structure and biomedical properties of chemically polished and electropolished NiTi shape memory alloys. <i>Materials Science and Engineering C</i> , 2008, 28, 1430-1434.	7.3	45
439	Rat calvaria osteoblast behavior and antibacterial properties of O ₂ and N ₂ plasma-implanted biodegradable poly(butylene succinate). <i>Acta Biomaterialia</i> , 2010, 6, 154-159.	8.3	45
440	Oxygen-vacancy and depth-dependent violet double-peak photoluminescence from ultrathin cuboid SnO ₂ nanocrystals. <i>Applied Physics Letters</i> , 2012, 100, 121903.	3.3	45
441	Relationship between Ni release and cytocompatibility of Ni-Ti-O nanotubes prepared on biomedical NiTi alloy. <i>Corrosion Science</i> , 2017, 123, 209-216.	6.6	45
442	The controlled drug release by pH-sensitive molecularly imprinted nanospheres for enhanced antibacterial activity. <i>Materials Science and Engineering C</i> , 2017, 77, 84-91.	7.3	45
443	Antibacterial, osteogenic, and angiogenic activities of SrTiO ₃ nanotubes embedded with Ag ₂ O nanoparticles. <i>Materials Science and Engineering C</i> , 2017, 75, 1049-1058.	7.3	45
444	Crumpled N-doped carbon nanotubes encapsulated with peapod-like Ge nanoparticles for high-rate and long-life Li-ion battery anodes. <i>Journal of Materials Chemistry A</i> , 2016, 4, 7585-7590.	10.3	44
445	Molecular Dynamics Simulation of Nanocrack Propagation in Single-Layer MoS ₂ Nanosheets. <i>Journal of Physical Chemistry C</i> , 2018, 122, 1351-1360.	3.1	44
446	Temperature-responsive tungsten doped vanadium dioxide thin film starves bacteria to death. <i>Materials Today</i> , 2019, 22, 35-49.	14.2	44
447	Dual light-induced <i>in situ</i> antibacterial activities of biocompatible TiO ₂ /MoS ₂ /PDA/RGD nanorod arrays on titanium. <i>Biomaterials Science</i> , 2020, 8, 391-404.	5.4	44
448	Tuning surface topographies on biomaterials to control bacterial infection. <i>Biomaterials Science</i> , 2020, 8, 6840-6857.	5.4	44
449	Optimization and cutting-edge design of fuel cell hybrid electric vehicles. <i>International Journal of Energy Research</i> , 2021, 45, 18392-18423.	4.5	44
450	Anti-corrosion characteristics of nitride-coated AISI 316L stainless steel coronary stents. <i>Surface and Coatings Technology</i> , 2006, 201, 2802-2806.	4.8	43

#	ARTICLE	IF	CITATIONS
451	Optical and biological sensing capabilities of Au ₂ S/AuAgS coated gold nanorods. <i>Biomaterials</i> , 2009, 30, 5622-5630.	11.4	43
452	Effects of Water Molecules on Photoluminescence from Hierarchical Peptide Nanotubes and Water Probing Capability. <i>Small</i> , 2011, 7, 2801-2807.	10.0	43
453	Synthesis of Layerâ€Tunable Graphene: A Combined Kinetic Implantation and Thermal Ejection Approach. <i>Advanced Functional Materials</i> , 2015, 25, 3666-3675.	14.9	43
454	Large and porous carbon sheets derived from water hyacinth for high-performance supercapacitors. <i>RSC Advances</i> , 2016, 6, 29996-30003.	3.6	43
455	Targeting ETS1 with RNAi-based supramolecular nanoassemblies for multidrug-resistant breast cancer therapy. <i>Journal of Controlled Release</i> , 2017, 253, 110-121.	9.9	43
456	3D-printed nanocomposite scaffolds with tunable magnesium ionic microenvironment induce in situ bone tissue regeneration. <i>Applied Materials Today</i> , 2019, 16, 493-507.	4.3	43
457	Improving the plasma immersion ion implantation impact energy inside a cylindrical bore by using an auxiliary electrode. <i>Applied Physics Letters</i> , 1996, 69, 3815-3817.	3.3	42
458	Ion-cut silicon-on-insulator fabrication with plasma immersion ion implantation. <i>Applied Physics Letters</i> , 1997, 71, 2767-2769.	3.3	42
459	Oxygen-induced nickel segregation in nitrogen plasma implanted AISI 304 stainless steel. <i>Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2001, 316, 200-204.	5.6	42
460	Plasmaâ€Treated Polyethylene Surfaces for Improved Binding of Active Protein. <i>Plasma Processes and Polymers</i> , 2007, 4, 583-590.	3.0	42
461	Fluorescent Magnetic Fe ₃ O ₄ /Rare Earth Colloidal Nanoparticles for Dualâ€Modality Imaging. <i>Small</i> , 2013, 9, 2991-3000.	10.0	42
462	Ecofriendly and Biodegradable Soybean Protein Isolate Films Incorporated with ZnO Nanoparticles for Food Packaging. <i>ACS Applied Bio Materials</i> , 2019, 2, 2202-2207.	4.6	42
463	Calcium Phosphate Mineralized Black Phosphorous with Enhanced Functionality and Anticancer Bioactivity. <i>Advanced Functional Materials</i> , 2020, 30, 2003069.	14.9	42
464	Biofunctional Elements Incorporated Nano/Microstructured Coatings on Titanium Implants with Enhanced Osteogenic and Antibacterial Performance. <i>Advanced Healthcare Materials</i> , 2020, 9, e2000681.	7.6	42
465	Macroscale Superlubricity on Engineering Steel in the Presence of Black Phosphorus. <i>Nano Letters</i> , 2021, 21, 5308-5315.	9.1	42
466	Co-doped Ni ₃ S ₂ porous nanocones as high-performance bifunctional electrocatalysts in water splitting. <i>Chemical Engineering Journal</i> , 2021, 425, 130455.	12.7	42
467	Biomimetic growth of apatite on hydrogen-implanted silicon. <i>Biomaterials</i> , 2004, 25, 5575-5581.	11.4	41
468	Nickel release behavior, cytocompatibility, and superelasticity of oxidized porous single-phase NiTi. <i>Journal of Biomedical Materials Research - Part A</i> , 2007, 81A, 948-955.	4.0	41

#	ARTICLE	IF	CITATIONS
469	Electrostatic drift modes in quantum dusty plasmas with Jeans terms. <i>Physics of Plasmas</i> , 2009, 16, .	1.9	41
470	Corrosion behavior and electrical conductivity of niobium implanted 316L stainless steel used as bipolar plates in polymer electrolyte membrane fuel cells. <i>Surface and Coatings Technology</i> , 2010, 205, 85-91.	4.8	41
471	Formation and electrochemical behavior of Al and O plasma-implanted biodegradable Mg-Y-RE alloy. <i>Materials Chemistry and Physics</i> , 2012, 132, 187-191.	4.0	41
472	Hybrid MnO ₂ /C nano-composites on a macroporous electrically conductive network for supercapacitor electrodes. <i>Journal of Materials Chemistry A</i> , 2015, 3, 16695-16707.	10.3	41
473	Lithiation Kinetics in High-Performance Porous Vanadium Nitride Nanosheet Anode. <i>Electrochimica Acta</i> , 2016, 214, 201-207.	5.2	41
474	<i>In vitro</i> antimicrobial effects and mechanism of atmospheric-pressure He/O ₂ plasma jet on <i>Staphylococcus aureus</i> biofilm. <i>Journal Physics D: Applied Physics</i> , 2017, 50, 105201.	2.8	41
475	Evolution of microstructures and properties of the GH4169 superalloy during short-term and high-temperature processing. <i>Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2019, 744, 255-266.	5.6	41
476	Near-infrared surface plasmon resonance sensor based on photonic crystal fiber with big open rings. <i>Optik</i> , 2020, 207, 164466.	2.9	41
477	Optoelectronic Artificial Synapses Based on Two-Dimensional Transitional-Metal Trichalcogenide. <i>ACS Applied Materials & Interfaces</i> , 2021, 13, 30797-30805.	8.0	41
478	Hofmeister Effect and Electrostatic Interaction Enhanced Ionic Conductive Organohydrogels for Electronic Applications. <i>Advanced Functional Materials</i> , 2022, 32, .	14.9	41
479	Structural analysis of arc deposited diamond-like carbon films by Raman and X-ray photoelectron spectroscopy. <i>Materials Science and Engineering B: Solid-State Materials for Advanced Technology</i> , 2002, 94, 95-101.	3.5	40
480	Plasma hydrogenation of strained Si ⁺ SiGe ⁻ Si heterostructure for layer transfer without ion implantation. <i>Applied Physics Letters</i> , 2005, 87, 091902.	3.3	40
481	Pd/Ni/Si-microchannel-plate-based amperometric sensor for ethanol detection. <i>Electrochimica Acta</i> , 2011, 56, 4197-4202.	5.2	40
482	Interfacial reactions and zigzag groove strengthening of C/C composite and Rene N5 single crystal brazed joint. <i>Ceramics International</i> , 2015, 41, 11605-11610.	4.8	40
483	Fluorinated Graphene in Interface Engineering of Ge-Based Nanoelectronics. <i>Advanced Functional Materials</i> , 2015, 25, 1805-1813.	14.9	40
484	Experimental and theoretical investigation of the control and balance of active sites on oxygen plasma-functionalized MoSe ₂ nanosheets for efficient hydrogen evolution reaction. <i>Applied Catalysis B: Environmental</i> , 2021, 288, 119983.	20.2	40
485	Silver nanocrystal superlattice coating for molecular sensing by surface-enhanced Raman spectroscopy. <i>Applied Physics Letters</i> , 2006, 89, 131914.	3.3	39
486	In vitro bioactivity of plasma-sprayed TiO ₂ coating after sodium hydroxide treatment. <i>Surface and Coatings Technology</i> , 2006, 200, 5487-5492.	4.8	39

#	ARTICLE	IF	CITATIONS
487	Pump-power tunable white upconversion emission in lanthanide-doped hexagonal NaYF ₄ nanorods. <i>Optical Materials</i> , 2011, 33, 882-887.	3.6	39
488	The effect of interlayer on corrosion resistance of ceramic coating/Mg alloy substrate in simulated physiological environment. <i>Surface and Coatings Technology</i> , 2012, 206, 4892-4898.	4.8	39
489	Surface engineering and modification of biomaterials. <i>Thin Solid Films</i> , 2013, 528, 93-105.	1.8	39
490	Ni-coated Si microchannel plate electrodes in three-dimensional lithium-ion battery anodes. <i>Electrochimica Acta</i> , 2013, 87, 250-255.	5.2	39
491	Dual carbon layer hybridized mesoporous tin hollow spheres for fast-rechargeable and highly-stable lithium-ion battery anodes. <i>Journal of Materials Chemistry A</i> , 2017, 5, 14422-14429.	10.3	39
492	Nonleaching Antibacterial Concept Demonstrated by In Situ Construction of 2D Nanoflakes on Magnesium. <i>Advanced Science</i> , 2020, 7, 1902089.	11.2	39
493	A programmed surface on polyetheretherketone for sequentially dictating osteoimmunomodulation and bone regeneration to achieve ameliorative osseointegration under osteoporotic conditions. <i>Bioactive Materials</i> , 2022, 14, 364-376.	15.6	39
494	Surface characteristics, mechanical properties, and cytocompatibility of oxygen plasma-implanted porous nickel titanium shape memory alloy. <i>Journal of Biomedical Materials Research - Part A</i> , 2006, 79A, 139-146.	4.0	38
495	Enhancement of antibacterial properties and biocompatibility of polyethylene by silver and copper plasma immersion ion implantation. <i>Surface and Coatings Technology</i> , 2008, 203, 909-912.	4.8	38
496	Formation mechanism and photoluminescence of AlN nanowhiskers. <i>Journal Physics D: Applied Physics</i> , 2008, 41, 025101.	2.8	38
497	Release of hydrogen during transformation from porous silicon to silicon oxide at normal temperature. <i>International Journal of Hydrogen Energy</i> , 2011, 36, 4513-4517.	7.1	38
498	New easy way preparation of core/shell structured SnO ₂ @carbon spheres and application for lithium-ion batteries. <i>Journal of Power Sources</i> , 2012, 216, 475-481.	7.8	38
499	Optofluidic detection for cellular phenotyping. <i>Lab on A Chip</i> , 2012, 12, 3552.	6.0	38
500	Evaluation of corrosion resistance and cytocompatibility of graded metal carbon film on Ti and NiTi prepared by hybrid cathodic arc/glow discharge plasma-assisted chemical vapor deposition. <i>Corrosion Science</i> , 2015, 97, 126-138.	6.6	38
501	A surface-engineered multifunctional TiO ₂ based nano-layer simultaneously elevates the corrosion resistance, osteoconductivity and antimicrobial property of a magnesium alloy. <i>Acta Biomaterialia</i> , 2019, 99, 495-513.	8.3	38
502	Modulation of Phosphorene for Optimal Hydrogen Evolution Reaction. <i>ACS Applied Materials & Interfaces</i> , 2019, 11, 37787-37795.	8.0	38
503	Effects of Ion Energy and Density on the Plasma Etching-Induced Surface Area, Edge Electrical Field, and Multivacancies in MoSe ₂ Nanosheets for Enhancement of the Hydrogen Evolution Reaction. <i>Small</i> , 2020, 16, e2001470.	10.0	38
504	In vitro and in vivo characterization of novel plasma treated nickel titanium shape memory alloy for orthopedic implantation. <i>Surface and Coatings Technology</i> , 2007, 202, 1247-1251.	4.8	37

#	ARTICLE	IF	CITATIONS
505	Quasi-Aligned Ag-Nb ₂ O ₅ Nanobelt Arrays with Enhanced Photocatalytic and Antibacterial Activities. <i>Journal of the American Ceramic Society</i> , 2011, 94, 2330-2338.	3.8	37
506	Improved corrosion resistance of stainless steel 316L by Ti ion implantation. <i>Materials Letters</i> , 2012, 68, 450-452.	2.6	37
507	Improved corrosion resistance on biodegradable magnesium by zinc and aluminum ion implantation. <i>Applied Surface Science</i> , 2012, 263, 608-612.	6.1	37
508	Heterostructured Ni(OH) ₂ @Co(OH) ₂ composites on 3D ordered Ni@Co nanoparticles fabricated on microchannel plates for advanced miniature supercapacitor. <i>Journal of Alloys and Compounds</i> , 2014, 589, 364-371.	5.5	37
509	Lanthanide-integrated supramolecular polymeric nanoassembly with multiple regulation characteristics for multidrug-resistant cancer therapy. <i>Biomaterials</i> , 2017, 129, 83-97.	11.4	37
510	Ultrafast hetero-assembly of monolithic interwoven V ₂ O ₅ nanobelts/carbon nanotubes architectures for high-energy alkali-ion batteries. <i>Journal of Power Sources</i> , 2018, 395, 295-304.	7.8	37
511	Plasma-activated thermosensitive biogel as an exogenous ROS carrier for post-surgical treatment of cancer. <i>Biomaterials</i> , 2021, 276, 121057.	11.4	37
512	In-plane Mott-Schottky Effects Enabling Efficient Hydrogen Evolution from Mo ₅ N ₆ @MoS ₂ Heterojunction Nanosheets in Universal pH Electrolytes. <i>Small</i> , 2022, 18, e2201137.	10.0	37
513	Special modulator for high frequency, low-voltage plasma immersion ion implantation. <i>Review of Scientific Instruments</i> , 1999, 70, 1824-1828.	1.3	36
514	Structure and properties of Ca-plasma-implanted titanium. <i>Surface and Coatings Technology</i> , 2005, 191, 43-48.	4.8	36
515	High-Sensitivity and Stable Cellular Fluorescence Imaging by Patterned Silver Nanocap Arrays. <i>ACS Applied Materials & Interfaces</i> , 2010, 2, 2465-2470.	8.0	36
516	Electrochemical stability of TiO ₂ nanotubes with different diameters in artificial saliva. <i>Surface and Coatings Technology</i> , 2011, 206, 63-67.	4.8	36
517	Upregulation of BMSCs Osteogenesis by Positively-Charged Tertiary Amines on Polymeric Implants via Charge/iNOS Signaling Pathway. <i>Scientific Reports</i> , 2015, 5, 9369.	3.3	36
518	<i>In situ</i> growth of all-inorganic perovskite nanocrystals on black phosphorus nanosheets. <i>Chemical Communications</i> , 2018, 54, 2365-2368.	4.1	36
519	Tungsten-Doped CoP Nanoneedle Arrays Grown on Carbon Cloth as Efficient Bifunctional Electrocatalysts for Overall Water Splitting. <i>ChemElectroChem</i> , 2019, 6, 5229-5236.	3.4	36
520	Synergistic Antibacterial Activity of Black Phosphorus Nanosheets Modified with Titanium Aminobenzenesulfanato Complexes. <i>ACS Applied Nano Materials</i> , 2019, 2, 1202-1209.	5.0	36
521	Hierarchical OD~2D Co/Mo Selenides as Superior Bifunctional Electrocatalysts for Overall Water Splitting. <i>Frontiers in Chemistry</i> , 2020, 8, 382.	3.6	36
522	Particle-in-cell and Monte Carlo simulation of the hydrogen plasma immersion ion implantation process. <i>Journal of Applied Physics</i> , 1999, 86, 1817-1821.	2.5	35

#	ARTICLE	IF	CITATIONS
523	Intense blue-light emission from carbon-plasma-implanted porous silicon. Applied Physics Letters, 2001, 78, 37-39.	3.3	35
524	Nitrogen plasma-implanted titanium as bipolar plates in polymer electrolyte membrane fuel cells. Journal of Power Sources, 2010, 195, 6798-6804.	7.8	35
525	The effect of the Hall term on Jeans instability in quantum magnetoplasma with resistive effects. Physics of Plasmas, 2010, 17, .	1.9	35
526	Miniature supercapacitors composed of nickel/cobalt hydroxide on nickel-coated silicon microchannel plates. Journal of Materials Chemistry, 2011, 21, 19093.	6.7	35
527	Preparation of Controllable Core-Shell Gold Nanoparticles and Its Application in Detection of Silver Ions. ACS Applied Materials & Interfaces, 2011, 3, 183-190.	8.0	35
528	Red mud/polypropylene composite with mechanical and thermal properties. Journal of Composite Materials, 2011, 45, 2811-2816.	2.4	35
529	First-principle study of energy band structure of armchair graphene nanoribbons. Solid State Communications, 2012, 152, 1089-1093.	1.9	35
530	Core-shell TiC/C nanofiber arrays decorated with copper nanoparticles for high performance non-enzymatic glucose sensing. Sensors and Actuators B: Chemical, 2014, 192, 474-479.	7.8	35
531	A square-lattice D-shaped photonic crystal fiber sensor based on SPR to detect analytes with large refractive indexes. Physica E: Low-Dimensional Systems and Nanostructures, 2022, 138, 115106.	2.7	35
532	Enhanced ion conductivity and electrode-electrolyte interphase stability of porous Si anodes enabled by silicon nitride nanocoating for high-performance Li-ion batteries. Journal of Energy Chemistry, 2022, 69, 616-625.	12.9	35
533	Surface characteristics, biocompatibility, and mechanical properties of nickel-titanium plasma-implanted with nitrogen at different implantation voltages. Journal of Biomedical Materials Research - Part A, 2007, 82A, 469-478.	4.0	34
534	A unique technology to transform inorganic nanorods into nano-networks. Nanotechnology, 2009, 20, 255302.	2.6	34
535	Core-shell TiC/C quasi-aligned nanofiber arrays on biomedical Ti6Al4V for sensitive electrochemical biosensing. Chemical Communications, 2010, 46, 6828.	4.1	34
536	Microstructural evolution in NiTi alloy subjected to surface mechanical attrition treatment and mechanism. Intermetallics, 2011, 19, 1136-1145.	3.9	34
537	Microelectrode arrays based on carbon nanomaterials: emerging electrochemical sensors for biological and environmental applications. RSC Advances, 2013, 3, 18698.	3.6	34
538	In Situ Thermal Imaging and Absolute Temperature Monitoring by Luminescent Diphenylalanine Nanotubes. Biomacromolecules, 2013, 14, 2112-2116.	5.4	34
539	Atmospheric pressure plasma jet utilizing Ar and Ar/H ₂ /O mixtures and its applications to bacteria inactivation. Chinese Physics B, 2014, 23, 075204.	1.4	34
540	Recyclable Non-Enzymatic Glucose Sensor Based on Ni/NiTiO ₃ /TiO ₂ Nanotube Arrays. ChemPlusChem, 2015, 80, 576-582.	2.8	34

#	ARTICLE	IF	CITATIONS
541	Tunable photoluminescence from sheet-like black phosphorus crystal by electrochemical oxidation. <i>Applied Physics Letters</i> , 2015, 107, 021901.	3.3	34
542	General fabrication of mesoporous Nb ₂ O ₅ nanobelts for lithium ion battery anodes. <i>RSC Advances</i> , 2016, 6, 90489-90493.	3.6	34
543	Fully degradable PLA-based composite reinforced with 2D-braided Mg wires for orthopedic implants. <i>Composites Science and Technology</i> , 2017, 142, 180-188.	7.8	34
544	Three-dimensional tetsubo-like Co(OH) ₂ nanorods on a macroporous electrically conductive network as an efficient electroactive framework for the hydrogen evolution reaction. <i>Journal of Materials Chemistry A</i> , 2017, 5, 2629-2639.	10.3	34
545	Black Phosphorus: Bioactive Nanomaterials with Inherent and Selective Chemotherapeutic Effects. <i>Angewandte Chemie</i> , 2019, 131, 779-784.	2.0	34
546	A promising orthopedic implant material with enhanced osteogenic and antibacterial activity: Al ₂ O ₃ -coated aluminum alloy. <i>Applied Surface Science</i> , 2018, 457, 1025-1034.	6.1	34
547	Ex-centric core photonic crystal fiber sensor with gold nanowires based on surface plasmon resonance. <i>Optik</i> , 2019, 196, 163173.	2.9	34
548	A hybrid Co NPs@CNT nanocomposite as highly efficient electrocatalyst for oxygen evolution reaction. <i>Applied Surface Science</i> , 2020, 507, 145155.	6.1	34
549	Highly Durable and Efficient Ni-FeO _x /FeNi ₃ Electrocatalysts Synthesized by a Facile <i>In Situ</i> Combustion-Based Method for Overall Water Splitting with Large Current Densities. <i>ACS Applied Materials & Interfaces</i> , 2022, 14, 27842-27853.	8.0	34
550	Influence of Tris in simulated body fluid on degradation behavior of pure magnesium. <i>Materials Chemistry and Physics</i> , 2010, 124, 33-35.	4.0	33
551	Wear resistance of NiTi alloy after surface mechanical attrition treatment. <i>Surface and Coatings Technology</i> , 2010, 205, 506-510.	4.8	33
552	Origin of strong white electroluminescence from dense Si nanodots embedded in silicon nitride. <i>Optics Letters</i> , 2012, 37, 692.	3.3	33
553	Structure, molecular simulation, and release of a spirin from intercalated Zn-Al-layered double hydroxides. <i>Colloids and Surfaces B: Biointerfaces</i> , 2015, 135, 339-345.	5.0	33
554	Design and theoretical analysis of a photonic crystal fiber based on surface plasmon resonance sensing. <i>Journal of Nanophotonics</i> , 2015, 9, 093050.	1.0	33
555	Germanium-Assisted Direct Growth of Graphene on Arbitrary Dielectric Substrates for Heating Devices. <i>Small</i> , 2017, 13, 1700929.	10.0	33
556	Nano mechanical and wear properties of multi-layer Ti/TiN coatings deposited on Al 7075 by high-vacuum magnetron sputtering. <i>Thin Solid Films</i> , 2017, 638, 96-104.	1.8	33
557	Vanadium Dioxide Nanocoating Induces Tumor Cell Death through Mitochondrial Electron Transport Chain Interruption. <i>Global Challenges</i> , 2019, 3, 1800058.	3.6	33
558	Design and synthesis of dendritic Co ₃ O ₄ @Co ₂ (CO ₃)(OH) ₂ nanoarrays on carbon cloth for high-performance supercapacitors. <i>Journal of Materials Science</i> , 2020, 55, 12091-12102.	3.7	33

#	ARTICLE	IF	CITATIONS
559	Interface Engineering-Assisted 3D-Graphene/Germanium Heterojunction for High-Performance Photodetectors. <i>ACS Applied Materials & Interfaces</i> , 2020, 12, 15606-15614.	8.0	33
560	Light-induced bioactive TiO ₂ surface. <i>Applied Physics Letters</i> , 2006, 88, 013905.	3.3	32
561	Temperature dependent photoluminescence from ZnO nanowires and nanosheets on brass substrate. <i>Applied Physics Letters</i> , 2008, 93, .	3.3	32
562	Microstructure, nickel suppression and mechanical characteristics of electropolished and photoelectrocatalytically oxidized biomedical nickel titanium shape memory alloy. <i>Acta Biomaterialia</i> , 2009, 5, 2238-2245.	8.3	32
563	Structural Regulation and Optical Properties of One-Dimensional ZnO Nanomaterials in Situ Grown from and on Brass Substrates. <i>Journal of Physical Chemistry C</i> , 2009, 113, 170-173.	3.1	32
564	Surface Characterization of Biomaterials. , 2013, , 105-174.		32
565	Facet-controlled synthesis and facet-dependent photocatalytic properties of SnO ₂ micropolyhedrons. <i>Applied Surface Science</i> , 2015, 349, 798-804.	6.1	32
566	MnO ₂ @TiO ₂ /C nanocomposite arrays for high-performance supercapacitor electrodes. <i>Thin Solid Films</i> , 2015, 584, 61-65.	1.8	32
567	2D Material-Based Nanofibrous Membrane for Photothermal Cancer Therapy. <i>ACS Applied Materials & Interfaces</i> , 2018, 10, 1155-1163.	8.0	32
568	The single-polarization filter composed of gold-coated photonic crystal fiber. <i>Physics Letters, Section A: General, Atomic and Solid State Physics</i> , 2019, 383, 3200-3206.	2.1	32
569	Sensitive and selective ctDNA detection based on functionalized black phosphorus nanosheets. <i>Biosensors and Bioelectronics</i> , 2020, 165, 112384.	10.1	32
570	Rice Husk-Derived Activated Carbon for Li Ion Battery Anode. <i>Nanoscience and Nanotechnology Letters</i> , 2014, 6, 68-71.	0.4	32
571	The effect of high-dose nitrogen plasma immersion ion implantation on silicone surfaces. <i>Journal Physics D: Applied Physics</i> , 2000, 33, 2869-2874.	2.8	31
572	Germanium movement mechanism in SiGe-on-insulator fabricated by modified Ge condensation. <i>Journal of Applied Physics</i> , 2005, 97, 064504.	2.5	31
573	Stability of luminescent 3C-SiC nanocrystallites in aqueous solution. <i>Physics Letters, Section A: General, Atomic and Solid State Physics</i> , 2006, 360, 336-338.	2.1	31
574	Hydrogen release from titanium hydride in foaming of orthopedic NiTi scaffolds. <i>Acta Biomaterialia</i> , 2011, 7, 1387-1397.	8.3	31
575	Biodegradable Poly(Butylene Succinate) Modified by Gas Plasmas and Their In vitro Functions as Bone Implants. <i>ACS Applied Materials & Interfaces</i> , 2012, 4, 4380-4386.	8.0	31
576	Preparation and characterization of a novel nickel@palladium electrode supported by silicon nanowires for direct glucose fuel cell. <i>Electrochimica Acta</i> , 2012, 65, 149-152.	5.2	31

#	ARTICLE	IF	CITATIONS
577	Structure and corrosion resistance of Ti/TiC coatings fabricated by plasma immersion ion implantation and deposition on nickel-titanium. <i>Surface and Coatings Technology</i> , 2013, 229, 151-155.	4.8	31
578	Enhanced corrosion resistance and hemocompatibility of biomedical NiTi alloy by atmospheric-pressure plasma polymerized fluorine-rich coating. <i>Applied Surface Science</i> , 2014, 297, 109-115.	6.1	31
579	Highly ordered Ni-Ti-O nanotubes for non-enzymatic glucose detection. <i>Materials Science and Engineering C</i> , 2015, 51, 37-42.	7.3	31
580	Anomalous but massive removal of two organic dye pollutants simultaneously. <i>Journal of Hazardous Materials</i> , 2016, 318, 54-60.	12.4	31
581	Effects of one-step hydrothermal treatment on the surface morphology and corrosion resistance of ZK60 magnesium alloy. <i>Surface and Coatings Technology</i> , 2017, 309, 490-496.	4.8	31
582	Nickel plasma modification of graphene for high-performance non-enzymatic glucose sensing. <i>Sensors and Actuators B: Chemical</i> , 2017, 251, 842-850.	7.8	31
583	Preparation of layered double hydroxides using boron mud and red mud industrial wastes and adsorption mechanism to phosphate. <i>Water and Environment Journal</i> , 2017, 31, 145-157.	2.2	31
584	Reconstructed chitosan with alkylamine for enhanced gene delivery by promoting endosomal escape. <i>Carbohydrate Polymers</i> , 2020, 227, 115339.	10.2	31
585	A hollow dual-core PCF-SPR sensor with gold layers on the inner and outer surfaces of the thin cladding. <i>Results in Optics</i> , 2020, 1, 100004.	2.0	31
586	A Quantitative Bacteria Monitoring and Killing Platform Based on Electron Transfer from Bacteria to a Semiconductor. <i>Advanced Materials</i> , 2020, 32, e2003616.	21.0	31
587	Artificial synapses with a sponge-like double-layer porous oxide memristor. <i>NPG Asia Materials</i> , 2021, 13, .	7.9	31
588	In situ construction of $\text{I}^3\text{-MoC/VN}$ heterostructured electrocatalysts with strong electron coupling for highly efficient hydrogen evolution reaction. <i>Chemical Engineering Journal</i> , 2021, 416, 129130.	12.7	31
589	Hybrid photovoltaic-triboelectric nanogenerators for simultaneously harvesting solar and mechanical energies. <i>Nano Energy</i> , 2021, 89, 106376.	16.0	31
590	Separation of plasma implantation of oxygen to form silicon on insulator. <i>Applied Physics Letters</i> , 1997, 70, 1748-1750.	3.3	30
591	Charging of dielectric substrate materials during plasma immersion ion implantation. <i>Nuclear Instruments & Methods in Physics Research B</i> , 2002, 187, 485-491.	1.4	30
592	Effects of pretreatment by ion implantation and interlayer on adhesion between aluminum substrate and TiN film. <i>Thin Solid Films</i> , 2005, 493, 152-159.	1.8	30
593	Synthesis and optical properties of germanium nanorod array fabricated on porous anodic alumina and Si-based templates. <i>Applied Physics Letters</i> , 2005, 86, 021111.	3.3	30
594	Hemocompatibility of lanthanum oxide films fabricated by dual plasma deposition. <i>Thin Solid Films</i> , 2006, 515, 1219-1222.	1.8	30

#	ARTICLE	IF	CITATIONS
595	Control of interfacial silicate between HfO ₂ and Si by high concentration ozone. Applied Physics Letters, 2006, 88, 072903.	3.3	30
596	Corrosion resistance of ZrO ₂ –Zr-coated biodegradable surgical magnesium alloy. Journal of Materials Research, 2008, 23, 312-319.	2.6	30
597	Genetic effects of an air discharge plasma on <i>Staphylococcus aureus</i> at the gene transcription level. Applied Physics Letters, 2015, 106, .	3.3	30
598	Porous Dual-Layered MoO ₃ Nanotube Arrays with Highly Conductive TiN Cores for Supercapacitors. ChemElectroChem, 2015, 2, 512-517.	3.4	30
599	Effects of high concentration of Benzotriazole on corrosion behavior of nanostructured titania-alumina composite coating deposited on Al 2024 by sol-gel method. Surface and Coatings Technology, 2017, 321, 36-44.	4.8	30
600	InSe Nanosheets for Efficient NIR-II-Responsive Drug Release. ACS Applied Materials & Interfaces, 2019, 11, 27521-27528.	8.0	30
601	Improving the performance of light-emitting diodes via plasmonic-based strategies. Journal of Applied Physics, 2020, 127, .	2.5	30
602	Direct current plasma implantation using a grounded conducting grid. Journal of Applied Physics, 2000, 87, 4094-4097.	2.5	29
603	Enhancement of implantation energy using a conducting grid in plasma immersion ion implantation of dielectric/polymeric materials. Review of Scientific Instruments, 2003, 74, 3697-3700.	1.3	29
604	Nucleation and growth of calcium phosphate on Ca-implanted titanium surface. Surface Science, 2006, 600, 651-656.	1.9	29
605	Vacuum electron field emission from SnO ₂ nanowhiskers annealed in N ₂ and O ₂ atmospheres. Applied Physics Letters, 2006, 88, 013109.	3.3	29
606	Vascular lumen simulation and highly-sensitive nitric oxide detection using three-dimensional gelatin chip coupled to TiC/C nanowire arrays microelectrode. Lab on A Chip, 2012, 12, 4249.	6.0	29
607	Water-Sensitive High-Frequency Molecular Vibrations in Self-Assembled Diphenylalanine Nanotubes. Journal of Physical Chemistry C, 2012, 116, 9793-9799.	3.1	29
608	Dual-emitting nanocomposites derived from rare-earth compound nanotubes for ratiometric fluorescence sensing applications. Nanoscale, 2013, 5, 1629.	5.6	29
609	Synthesis of hollow rare-earth compound nanoparticles by a universal sacrificial template method. CrystEngComm, 2014, 16, 6141-6148.	2.6	29
610	Facet-engineered CeO ₂ /graphene composites for enhanced NO ₂ gas-sensing. Journal of Materials Chemistry C, 2017, 5, 6973-6981.	5.5	29
611	Core-shell CoMoO ₄ @Ni(OH) ₂ on ordered macro-porous electrode plate for high-performance supercapacitor. Electrochimica Acta, 2018, 283, 538-547.	5.2	29
612	Spatially controlled synthesis of superlattice-like SnS/nitrogen-doped graphene hybrid nanobelts as high-rate and durable anode materials for sodium-ion batteries. Journal of Materials Chemistry A, 2019, 7, 27475-27483.	10.3	29

#	ARTICLE	IF	CITATIONS
613	Ni ₃ S ₂ Nanocomposite Structures Doped with Zn and Co as Long-Lifetime, High-Energy-Density, and Binder-Free Cathodes in Flexible Aqueous Nickel-Zinc Batteries. ACS Applied Materials & Interfaces, 2021, 13, 34292-34300.	8.0	29
614	Improved corrosion and wear resistance of micro-arc oxidation coatings on the 2024 aluminum alloy by incorporation of quasi-two-dimensional sericite microplates. Applied Surface Science, 2022, 585, 152693.	6.1	29
615	Applications of plasma immersion ion implantation in microelectronics – a brief review. Surface and Coatings Technology, 2001, 136, 151-156.	4.8	28
616	Molybdenum-carbon film fabricated using metal cathodic arc and acetylene dual plasma deposition. Surface and Coatings Technology, 2004, 186, 112-117.	4.8	28
617	Early apatite deposition and osteoblast growth on plasma-sprayed dicalcium silicate coating. Journal of Biomedical Materials Research - Part A, 2005, 74A, 356-365.	4.0	28
618	Effects of NH ₃ , O ₂ , and N ₂ co-implantation on Cu out-diffusion and antimicrobial properties of copper plasma-implanted polyethylene. Applied Surface Science, 2007, 253, 8981-8985.	6.1	28
619	Applications of plasma-based technology to microelectronics and biomedical engineering. Surface and Coatings Technology, 2009, 203, 2793-2798.	4.8	28
620	Recent applications of plasma-based ion implantation and deposition to microelectronic, nano-structured, and biomedical materials. Surface and Coatings Technology, 2010, 204, 2853-2863.	4.8	28
621	Tunable Silver Nanocap Superlattice Arrays for Surface-Enhanced Raman Scattering. Journal of Physical Chemistry C, 2011, 115, 24328-24333.	3.1	28
622	Ultrathin Amorphous Alumina Nanoparticles with Quantum-Confined Oxygen-Vacancy-Induced Blue Photoluminescence as Fluorescent Biological Labels. Journal of Physical Chemistry C, 2012, 116, 2356-2362.	3.1	28
623	N-doped SnO ₂ nanocrystals with green emission dependent upon mutual effects of nitrogen dopant and oxygen vacancy. Acta Materialia, 2013, 61, 7342-7347.	7.9	28
624	Sensitive and Robust Colorimetric Sensing of Sulfide Anion by Plasmonic Nanosensors Based on Quick Crystal Growth. Plasmonics, 2014, 9, 11-16.	3.4	28
625	Removal of organic pollutants from super heavy oil wastewater by lignite activated coke. Colloids and Surfaces A: Physicochemical and Engineering Aspects, 2014, 447, 120-130.	4.7	28
626	Antibacterial and mechanical properties of honeycomb ceramic materials incorporated with silver and zinc. Materials & Design, 2014, 59, 461-465.	5.1	28
627	Antibacterial and osteoinductive capability of orthopedic materials via cationic interaction mediated positive charge. Journal of Materials Chemistry B, 2015, 3, 733-737.	5.8	28
628	Effects of cerium ion implantation on the corrosion behavior of magnesium in different biological media. Surface and Coatings Technology, 2016, 306, 6-10.	4.8	28
629	Lactose-Functionalized Gold Nanorods for Sensitive and Rapid Serological Diagnosis of Cancer. ACS Applied Materials & Interfaces, 2016, 8, 5813-5820.	8.0	28
630	Self-passivating carbon film as bipolar plate protective coating in polymer electrolyte membrane fuel cell. International Journal of Hydrogen Energy, 2016, 41, 5783-5792.	7.1	28

#	ARTICLE	IF	CITATIONS
631	Gypsum blocks produced from TiO ₂ production by-products. Environmental Technology (United Kingdom), 2016, 37, 1094-1100.	2.2	28
632	Corrosion behavior of reactive sputtered Ti/TiN nanostructured coating and effects of intermediate titanium layer on self-healing properties. Surface and Coatings Technology, 2017, 326, 156-164.	4.8	28
633	Construction of perfluorohexane/IR780@liposome coating on Ti for rapid bacteria killing under permeable near infrared light. Biomaterials Science, 2018, 6, 2460-2471.	5.4	28
634	Vertical kinetically oriented MoS ₂ Mo ₂ N heterostructures on carbon cloth: a highly efficient hydrogen evolution electrocatalyst. Sustainable Energy and Fuels, 2020, 4, 2201-2207.	4.9	28
635	Simultaneous application of diamond-like carbon coating and surface amination on polyether ether ketone: Towards superior mechanical performance and osseointegration. Smart Materials in Medicine, 2021, 2, 219-228.	6.7	28
636	Recent progress and perspective of cobalt-based catalysts for water splitting: design and nanoarchitectonics. Materials Today Energy, 2022, 23, 100911.	4.7	28
637	Surface and interface control of black phosphorus. Chem, 2022, 8, 632-662.	11.7	28
638	Experimental investigation of the electrical characteristics and initiation dynamics of pulsed high-voltage glow discharge. Journal Physics D: Applied Physics, 2001, 34, 354-359.	2.8	27
639	Electrical properties of AlN thin films prepared by ion beam enhanced deposition. Surface and Coatings Technology, 2005, 196, 130-134.	4.8	27
640	Investigation of plasma hydrogenation and trapping mechanism for layer transfer. Applied Physics Letters, 2005, 86, 031904.	3.3	27
641	Nitrogen plasma-implanted nickel titanium alloys for orthopedic use. Surface and Coatings Technology, 2007, 201, 5607-5612.	4.8	27
642	Graded phase structure in the surface layer of NiTi alloy processed by surface severe plastic deformation. Scripta Materialia, 2011, 64, 1011-1014.	5.2	27
643	Recent developments in optofluidic-surface-enhanced Raman scattering systems: Design, assembly, and advantages. Journal of Materials Research, 2011, 26, 170-185.	2.6	27
644	Achieving significantly enhanced visible-light photocatalytic efficiency using a polyelectrolyte: the composites of exfoliated titania nanosheets, graphene, and poly(diallyl-dimethyl-ammonium chloride). Nanoscale, 2015, 7, 14002-14009.	5.6	27
645	Effects of Atmospheric-Pressure Nonthermal Nitrogen and Air Plasma on Bacteria Inactivation. IEEE Transactions on Plasma Science, 2016, 44, 2699-2707.	1.3	27
646	Ultrahigh quantum efficiency photodetector and ultrafast reversible surface wettability transition of square In ₂ O ₃ nanowires. Nano Research, 2017, 10, 2772-2781.	10.4	27
647	Excellent adhered thick diamond-like carbon coatings by optimizing hetero-interfaces with sequential highly energetic Cr and C ion treatment. Journal of Alloys and Compounds, 2018, 735, 155-162.	5.5	27
648	Antibacterial and Cytocompatible Nanoengineered Silk-Based Materials for Orthopedic Implants and Tissue Engineering. ACS Applied Materials & Interfaces, 2019, 11, 31605-31614.	8.0	27

#	ARTICLE	IF	CITATIONS
649	Flexible Surface-Enhanced Raman Scattering Chip: A Universal Platform for Real-Time Interfacial Molecular Analysis with Femtomolar Sensitivity. <i>ACS Applied Materials & Interfaces</i> , 2020, 12, 54174-54180.	8.0	27
650	Stepwise 3D-spatio-temporal magnesium cationic niche: Nanocomposite scaffold mediated microenvironment for modulating intramembranous ossification. <i>Bioactive Materials</i> , 2021, 6, 503-519.	15.6	27
651	Surface plasmon resonance sensor based on U-shaped photonic quasi-crystal fiber. <i>Applied Optics</i> , 2021, 60, 1761.	1.8	27
652	Morphological modulation of cobalt selenide on carbon cloth by Ni doping for high-performance electrodes in supercapacitors. <i>Colloids and Surfaces A: Physicochemical and Engineering Aspects</i> , 2021, 624, 126818.	4.7	27
653	Hydrogen permeation behavior and mechanism of multi-layered graphene coatings and mitigation of hydrogen embrittlement of pipe steel. <i>Applied Surface Science</i> , 2022, 573, 151529.	6.1	27
654	Water plasma implantation/oxidation of magnesium alloys for corrosion resistance. <i>Nuclear Instruments & Methods in Physics Research B</i> , 2006, 242, 300-302.	1.4	26
655	Silver fractal networks for surface-enhanced Raman scattering substrates. <i>Applied Surface Science</i> , 2008, 254, 5399-5402.	6.1	26
656	Tailoring light emission properties of organic emitter by coupling to resonance-tuned silver nanoantenna arrays. <i>Applied Physics Letters</i> , 2009, 95, .	3.3	26
657	Corrosion behavior of DLC-coated NiTi alloy in the presence of serum proteins. <i>Diamond and Related Materials</i> , 2010, 19, 1230-1234.	3.9	26
658	Surface-enhanced cellular fluorescence imaging. <i>Progress in Surface Science</i> , 2012, 87, 23-45.	8.3	26
659	In situ probing of intracellular pH by fluorescence from inorganic nanoparticles. <i>Biomaterials</i> , 2013, 34, 9183-9189.	11.4	26
660	In situ Synthesis of V_2O_3 -Intercalated Na-Doped Graphene Nanobelts from VO_x -Amine Hybrid as High-Performance Anode Material for Alkali-Ion Batteries. <i>ChemElectroChem</i> , 2018, 5, 1387-1393.	3.4	26
661	Calcium phosphate coating on biomedical WE43 magnesium alloy pretreated with a magnesium phosphate layer for corrosion protection. <i>Surface and Coatings Technology</i> , 2020, 401, 126248.	4.8	26
662	Bioactive phospho-therapy with black phosphorus for <i>in vivo</i> tumor suppression. <i>Theranostics</i> , 2020, 10, 4720-4736.	10.0	26
663	Plasma Engineering of Basal Sulfur Sites on $MoS_2@Ni_3S_2$ Nanorods for the Alkaline Hydrogen Evolution Reaction. <i>Advanced Science</i> , 2022, 9, e2104774.	11.2	26
664	Interface Polarization Strengthened Microwave Catalysis of MoS_2/FeS for the Therapy of Bacteria-Infected Osteomyelitis. <i>Advanced Functional Materials</i> , 2022, 32, .	14.9	26
665	Semiconductor applications of plasma immersion ion implantation. <i>Plasma Physics and Controlled Fusion</i> , 2003, 45, 555-570.	2.1	25
666	Bioconductivity and mechanical properties of plasma-sprayed dicalcium silicate/zirconia composite coating. <i>Materials Science and Engineering C</i> , 2005, 25, 509-515.	7.3	25

#	ARTICLE	IF	CITATIONS
667	Surface antibacterial characteristics of plasma-modified polyethylene. <i>Biopolymers</i> , 2006, 83, 62-68.	2.4	25
668	Mechanical properties of Al ₂ O ₃ /Al bi-layer coated AZ91 magnesium alloy. <i>Thin Solid Films</i> , 2009, 517, 5357-5360.	1.8	25
669	Silver Nanovoid Arrays for Surface-Enhanced Raman Scattering. <i>Langmuir</i> , 2012, 28, 8799-8803.	3.5	25
670	Progress in direct-current plasma immersion ion implantation and recent applications of plasma immersion ion implantation and deposition. <i>Surface and Coatings Technology</i> , 2013, 229, 2-11.	4.8	25
671	Microstructure and surface properties of chromium-doped diamond-like carbon thin films fabricated by high power pulsed magnetron sputtering. <i>Applied Surface Science</i> , 2013, 276, 31-36.	6.1	25
672	Investigation of activated oxygen molecules on the surface of Y ₂ O ₃ nanocrystals by Raman scattering. <i>Journal of Applied Physics</i> , 2013, 114, .	2.5	25
673	Hydrothermal synthesis of perovskite-type MTiO ₃ (M = Zn, Co). <i>TJ ETQq1 1 0.784314 rgBT /Overlock 10 Tf 50 507 Td (Ni/T</i> 2014, 16, 10280-10285.	2.6	25
674	Asymmetrical Supercapacitor Composed of Thin Co(OH) ₂ Nanoflakes on Three-Dimensional Ni/Si Microchannel Plates with Superior Electrochemical Performance. <i>Electrochimica Acta</i> , 2014, 149, 18-27.	5.2	25
675	Effects of external stress on biodegradable orthopedic materials: A review. <i>Bioactive Materials</i> , 2016, 1, 77-84.	15.6	25
676	The modulation of stem cell behaviors by functionalized nanoceramic coatings on Ti-based implants. <i>Bioactive Materials</i> , 2016, 1, 65-76.	15.6	25
677	Long-term antibacterial characteristics and cytocompatibility of titania nanotubes loaded with Au nanoparticles without photocatalytic effects. <i>Applied Surface Science</i> , 2017, 414, 230-237.	6.1	25
678	Ultrafast Synthesis of Te-Doped CoSb ₃ with Excellent Thermoelectric Properties. <i>ACS Applied Energy Materials</i> , 2019, 2, 4477-4485.	5.1	25
679	Enhanced corrosion resistance, antibacterial properties, and biocompatibility by hierarchical hydroxyapatite/ciprofloxacin-calcium phosphate coating on nitrided NiTi alloy. <i>Materials Science and Engineering C</i> , 2021, 118, 111524.	7.3	25
680	Ultra-short and dual-core photonic crystal fiber polarization splitter composed of metal and gallium arsenide. <i>Optik</i> , 2021, 226, 165779.	2.9	25
681	Corrosion Behavior and Biocompatibility of Diamond-like Carbon-Coated Zinc: An In Vitro Study. <i>ACS Omega</i> , 2021, 6, 9843-9851.	3.5	25
682	Waste-glass-derived silicon/CNTs composite with strong Si-C covalent bonding for advanced anode materials in lithium-ion batteries. <i>Applied Surface Science</i> , 2021, 563, 150280.	6.1	25
683	A high-performance electrocatalyst composed of nickel clusters encapsulated with a carbon network on TiN nanowire arrays for the oxygen evolution reaction. <i>Applied Surface Science</i> , 2021, 567, 150779.	6.1	25
684	Microcavity engineering by plasma immersion ion implantation. <i>Materials Chemistry and Physics</i> , 1998, 57, 1-16.	4.0	24

#	ARTICLE	IF	CITATIONS
685	Sample stage induced dose and energy nonuniformity in plasma immersion ion implantation of silicon. <i>Applied Physics Letters</i> , 1998, 73, 202-204.	3.3	24
686	Accurate determination of pulsed current waveform in plasma immersion ion implantation processes. <i>Journal of Applied Physics</i> , 1999, 86, 3567-3570.	2.5	24
687	Improvement of interfacial and dielectric properties of sputtered Ta ₂ O ₅ thin films by substrate biasing and the underlying mechanism. <i>Journal of Applied Physics</i> , 2005, 97, 114106.	2.5	24
688	XPS and biocompatibility studies of titania film on anodized NiTi shape memory alloy. <i>Journal of Materials Science: Materials in Medicine</i> , 2009, 20, 223-228.	3.6	24
689	Synthesis and properties of fluorine-containing amphiphilic graft copolymer P(HFMA)- <i>g</i> -P(SPEG). <i>Journal of Polymer Science Part A</i> , 2009, 47, 4895-4907.	2.3	24
690	Nonenzymatic glucose sensor based on over-oxidized polypyrrole modified Pd/Si microchannel plate electrode. <i>Biosensors and Bioelectronics</i> , 2011, 26, 2579-2584.	10.1	24
691	Biological response of endothelial cells to diamond-like carbon-coated NiTi alloy. <i>Journal of Biomedical Materials Research - Part A</i> , 2012, 100A, 496-506.	4.0	24
692	Interface analysis of inorganic films on polyimide with atomic oxygen exposure. <i>Surface and Coatings Technology</i> , 2013, 216, 121-126.	4.8	24
693	Resonant Raman scattering from CdS nanocrystals enhanced by interstitial Mn. <i>Applied Physics Letters</i> , 2013, 102, .	3.3	24
694	Multifunctional cationic polymer decorated and drug intercalated layered silicate (NLS) for early gastric cancer prevention. <i>Biomaterials</i> , 2014, 35, 3298-3308.	11.4	24
695	Plasmon-induced broadband fluorescence enhancement on Al-Ag bimetallic substrates. <i>Scientific Reports</i> , 2014, 4, 6014.	3.3	24
696	Temperature and strain-rate effects on the deformation behaviors of nano-crystalline graphene sheets. <i>European Physical Journal B</i> , 2015, 88, 1.	1.5	24
697	Optical Identification of Topological Defect Types in Monolayer Arsenene by First-Principles Calculation. <i>Journal of Physical Chemistry C</i> , 2016, 120, 24917-24924.	3.1	24
698	Three-dimensional homo-nanostructured MnO ₂ /nanographene membranes on a macroporous electrically conductive network for high performance supercapacitors. <i>Journal of Materials Chemistry A</i> , 2016, 4, 11317-11329.	10.3	24
699	Protein-assisted assembly of mesoporous nanocrystals and carbon nanotubes for self-supporting high-performance sodium electrodes. <i>Journal of Materials Chemistry A</i> , 2017, 5, 2749-2758.	10.3	24
700	Intertwined Nitrogen-Doped Carbon Nanotubes for High-Rate and Long-Life Sodium-Ion Battery Anodes. <i>ChemElectroChem</i> , 2017, 4, 2542-2546.	3.4	24
701	Investigation of nano-structured Zirconium oxide film on Ti6Al4V substrate to improve tribological properties prepared by PIII&D. <i>Applied Surface Science</i> , 2017, 394, 586-597.	6.1	24
702	Interconnected nanoporous carbon structure delivering enhanced mass transport and conductivity toward exceptional performance in supercapacitor. <i>Journal of Power Sources</i> , 2019, 435, 226811.	7.8	24

#	ARTICLE	IF	CITATIONS
703	Stability and Repeatability of a Karst-like Hierarchical Porous Silicon Oxide-Based Memristor. ACS Applied Materials & Interfaces, 2019, 11, 21734-21740.	8.0	24
704	Hierarchical MoS ₂ @N-Doped Carbon Hollow Spheres with Enhanced Performance in Sodium Dual-Ion Batteries. ChemElectroChem, 2019, 6, 661-667.	3.4	24
705	Rapid and scalable production of high-quality phosphorene by plasma-liquid technology. Chemical Communications, 2020, 56, 221-224.	4.1	24
706	Hierarchical micro-flowers self-assembled from SnS monolayers and nitrogen-doped graphene lamellar nanosheets as advanced anode for lithium-ion battery. Electrochimica Acta, 2020, 331, 135292.	5.2	24
707	Corrosion-resistant plasma electrolytic oxidation coating modified by Zinc phosphate and self-healing mechanism in the salt-spray environment. Surface and Coatings Technology, 2020, 384, 125321.	4.8	24
708	High-performance multi-dimensional nitrogen-doped N+MnO ₂ @TiC/C electrodes for supercapacitors. Electrochimica Acta, 2021, 370, 137716.	5.2	24
709	A novel self-branching MnCo ₂ O ₄ / nanographene hybrid composites on macroporous electrically conductive network as bifunctional electrodes for boosting miniature supercapacitors and sodium ion batteries. Journal of Alloys and Compounds, 2020, 846, 155720.	5.5	24
710	Direct temperature monitoring for semiconductors in plasma immersion ion implantation. Review of Scientific Instruments, 2000, 71, 2839-2842.	1.3	23
711	Damage in hydrogen plasma implanted silicon. Journal of Applied Physics, 2001, 90, 1735-1739.	2.5	23
712	Solvent effect on light-emitting property of Si nanocrystals. Physics Letters, Section A: General, Atomic and Solid State Physics, 2005, 334, 447-452.	2.1	23
713	Self-assembled growth and enhanced blue emission of SiO _x N _y -capped silicon nanowire arrays. Applied Physics Letters, 2005, 86, 193111.	3.3	23
714	Bioactivity of plasma implanted biomaterials. Nuclear Instruments & Methods in Physics Research B, 2006, 242, 1-7.	1.4	23
715	Enhancement of corrosion resistance of AISI 420 stainless steels by nitrogen and silicon plasma immersion ion implantation. Surface and Coatings Technology, 2007, 201, 4879-4883.	4.8	23
716	Enhancement of ductility in Mg-3Al-1Zn alloy with tilted basal texture by electropulsing. Journal of Materials Research, 2009, 24, 3674-3679.	2.6	23
717	A novel hydrothermal route to synthesize solid SnO ₂ nanospheres and their photoluminescence property. Applied Physics A: Materials Science and Processing, 2009, 97, 581-585.	2.3	23
718	Mechanical and optical characteristics of multilayer inorganic films on polyimide for anti-atomic-oxygen erosion. Applied Surface Science, 2012, 258, 5810-5814.	6.1	23
719	Preparation and electrochemistry of Pd-Ni/Si nanowire nanocomposite catalytic anode for direct ethanol fuel cell. Dalton Transactions, 2012, 41, 5055.	3.3	23
720	Controlled Fabrication of Core-Shell TiO ₂ /C and TiC/C Nanofibers on Ti Foils and Their Field-Emission Properties. ACS Applied Materials & Interfaces, 2012, 4, 1037-1042.	8.0	23

#	ARTICLE	IF	CITATIONS
721	Ex situ and in situ evaluation of carbon ion-implanted stainless steel bipolar plates in polymer electrolyte membrane fuel cells. <i>Journal of Power Sources</i> , 2012, 199, 207-213.	7.8	23
722	Surface-induced structural transformation in nanowires. <i>Materials Science and Engineering Reports</i> , 2013, 74, 173-209.	31.8	23
723	Enhanced Photodegradation of Methyl Orange Synergistically by Microcrystal Facet Cutting and Flexible Electrically-Conducting Channels. <i>Journal of Physical Chemistry C</i> , 2014, 118, 28063-28068.	3.1	23
724	Electronic structure and magnetism in $\text{g-C}_4\text{N}_3$ controlled by strain engineering. <i>Applied Physics Letters</i> , 2015, 106, .	3.3	23
725	Polyimide composites composed of covalently bonded BaTiO_3 @GO hybrids with high dielectric constant and low dielectric loss. <i>RSC Advances</i> , 2016, 6, 86817-86823.	3.6	23
726	Development of novel implants with self-antibacterial performance through in-situ growth of 1D ZnO nanowire. <i>Colloids and Surfaces B: Biointerfaces</i> , 2016, 141, 623-633.	5.0	23
727	Preparation of multi-layer graphene on nickel-coated silicon microchannel plates by a hydrothermal carbonization procedure and its improved field emission properties. <i>Journal of Materials Chemistry C</i> , 2016, 4, 2079-2087.	5.5	23
728	Fabrication of irregular-layer-free and diameter-tunable NiTiO_3 nanopores by anodization of NiTi alloy. <i>Electrochemistry Communications</i> , 2017, 76, 10-14.	4.7	23
729	Influence of dynamic compressive loading on the in vitro degradation behavior of pure PLA and Mg/PLA composite. <i>Acta Biomaterialia</i> , 2017, 64, 269-278.	8.3	23
730	Selective and high-sensitive label-free detection of ascorbic acid by carbon nitride quantum dots with intense fluorescence from lone pair states. <i>Talanta</i> , 2019, 196, 530-536.	5.5	23
731	Corrosion behavior of functionally graded and self-healing nanostructured $\text{TiO}_2/\text{Al}_2\text{O}_3$ - Benzotriazole coatings deposited on AA 2024-T3 by the sol-gel method. <i>Materials Chemistry and Physics</i> , 2020, 240, 122233.	4.0	23
732	Robust and durable superhydrophobic F-DLC coating for anti-icing in aircrafts engineering. <i>Surface and Coatings Technology</i> , 2020, 404, 126468.	4.8	23
733	Needle-like CoO nanowire composites with NiO nanosheets on carbon cloth for hybrid flexible supercapacitors and overall water splitting electrodes. <i>RSC Advances</i> , 2020, 10, 37489-37499.	3.6	23
734	Wafer-scale growth of single-crystal graphene on vicinal Ge(001) substrate. <i>Nano Today</i> , 2020, 34, 100908.	11.9	23
735	Nanopatterned silk-coated AZ31 magnesium alloy with enhanced antibacterial and corrosion properties. <i>Materials Science and Engineering C</i> , 2020, 116, 111173.	7.3	23
736	Large-scale and low-cost synthesis of in situ generated SiC/C nano-composites from rice husks for advanced electromagnetic wave absorption applications. <i>Surface and Coatings Technology</i> , 2021, 406, 126641.	4.8	23
737	Uniform cobalt nanoparticles-decorated biscuit-like VN nanosheets by in situ segregation for Li-ion batteries and oxygen evolution reaction. <i>Applied Surface Science</i> , 2021, 536, 147982.	6.1	23
738	Wear and corrosion resistant coatings prepared on LY12 aluminum alloy by plasma electrolytic oxidation. <i>Surface and Coatings Technology</i> , 2021, 409, 126885.	4.8	23

#	ARTICLE	IF	CITATIONS
739	TiO ₂ film supported by vertically aligned gold nanorod superlattice array for enhanced photocatalytic hydrogen evolution. <i>Chemical Engineering Journal</i> , 2021, 417, 127900.	12.7	23
740	A multifunctional antibacterial coating on bone implants for osteosarcoma therapy and enhanced osteointegration. <i>Chemical Engineering Journal</i> , 2022, 428, 131155.	12.7	23
741	Dynamic active sites on plasma engraved Ni hydroxide for enhanced electro-catalytic urea oxidation. <i>Journal of Energy Chemistry</i> , 2022, 71, 150-158.	12.9	23
742	Modeling of incident particle energy distribution in plasma immersion ion implantation. <i>Journal of Applied Physics</i> , 2000, 88, 4961-4966.	2.5	22
743	Thermal stability of diamondlike carbon buried layer fabricated by plasma immersion ion implantation and deposition in silicon on insulator. <i>Journal of Applied Physics</i> , 2005, 98, 053502.	2.5	22
744	Fabrication and field emission property of a Si nanotip array. <i>Nanotechnology</i> , 2006, 17, 5573-5576.	2.6	22
745	Effects of water plasma immersion ion implantation on surface electrochemical behavior of NiTi shape memory alloys in simulated body fluids. <i>Applied Surface Science</i> , 2007, 253, 3154-3159.	6.1	22
746	Tunable emission from composite polymer nanoparticles based on resonance energy transfer. <i>Thin Solid Films</i> , 2008, 516, 6287-6292.	1.8	22
747	Tribological properties of graded diamond-like carbon films on Ti ion-implanted aluminum substrate. <i>Diamond and Related Materials</i> , 2008, 17, 1844-1849.	3.9	22
748	3D ordered NiO/silicon MCP array electrode materials for electrochemical supercapacitors. <i>Materials Research Bulletin</i> , 2009, 44, 1920-1925.	5.2	22
749	Reversible phase transformation in graphene nano-ribbons: Lattice shearing based mechanism. <i>Acta Materialia</i> , 2011, 59, 6783-6789.	7.9	22
750	Suppressed primary osteoblast functions on nanoporous titania surface. <i>Journal of Biomedical Materials Research - Part A</i> , 2011, 96A, 100-107.	4.0	22
751	Interface dipole engineering in metal gate/high-k stacks. <i>Science Bulletin</i> , 2012, 57, 2872-2878.	1.7	22
752	Wear mechanism and tribological characteristics of porous NiTi shape memory alloy for bone scaffold. <i>Journal of Biomedical Materials Research - Part A</i> , 2013, 101A, 2586-2601.	4.0	22
753	Supercapacitor Electrodes Based on Hierarchical Mesoporous MnO _x /Nitrated TiO ₂ Nanorod Arrays on Carbon Fiber Paper. <i>Advanced Materials Interfaces</i> , 2015, 2, 1400446.	3.7	22
754	Effects of silver plasma immersion ion implantation on the surface characteristics and cytocompatibility of titanium nitride films. <i>Surface and Coatings Technology</i> , 2015, 279, 166-170.	4.8	22
755	Anodic growth of ultra-long Ni-Ti-O nanopores. <i>Electrochemistry Communications</i> , 2016, 71, 28-32.	4.7	22
756	Recent advances in cell-mediated nanomaterial delivery systems for photothermal therapy. <i>Journal of Materials Chemistry B</i> , 2018, 6, 1296-1311.	5.8	22

#	ARTICLE	IF	CITATIONS
757	Surface functionalization of biomaterials by plasma and ion beam. <i>Surface and Coatings Technology</i> , 2018, 336, 2-8.	4.8	22
758	Magnetron-sputtered fluorocarbon polymeric film on magnesium for corrosion protection. <i>Surface and Coatings Technology</i> , 2018, 352, 437-444.	4.8	22
759	Enhancement of mechanical properties and corrosion resistance of NiTi alloy by carbon plasma immersion ion implantation. <i>Surface and Coatings Technology</i> , 2019, 365, 52-57.	4.8	22
760	Hierarchical binder-free MnO ₂ /TiO ₂ composite nanostructure on flexible seed graphite felt for high-performance supercapacitors. <i>Vacuum</i> , 2020, 181, 109648.	3.5	22
761	A tailored positively-charged hydrophobic surface reduces the risk of implant associated infections. <i>Acta Biomaterialia</i> , 2020, 114, 421-430.	8.3	22
762	A composite coating with physical interlocking and chemical bonding on WE43 magnesium alloy for corrosion protection and cytocompatibility enhancement. <i>Surface and Coatings Technology</i> , 2021, 412, 127078.	4.8	22
763	Tunable single-polarization bimetal-coated and liquid-filled photonic crystal fiber filter based on surface plasmon resonance. <i>Applied Optics</i> , 2019, 58, 6308.	1.8	22
764	Surface plasmon resonance sensor based on an eccentric core photonic quasi-crystal fiber with indium tin oxide. <i>Applied Optics</i> , 2019, 58, 6848.	1.8	22
765	Plasma modified and tailored defective electrocatalysts for water electrolysis and hydrogen fuel cells. <i>EcoMat</i> , 2022, 4, .	11.9	22
766	Modeling of the relationship between implantation parameters and implantation dose during plasma immersion ion implantation. <i>Physics Letters, Section A: General, Atomic and Solid State Physics</i> , 2000, 277, 42-46.	2.1	21
767	Self-assembled growth and green emission of gold nanowhiskers. <i>Applied Physics Letters</i> , 2005, 87, 223115.	3.3	21
768	Effects of plasma immersion ion nitridation on dielectric properties of HfO ₂ . <i>Applied Physics Letters</i> , 2007, 90, 122901.	3.3	21
769	Structure and wear properties of NiTi modified by nitrogen plasma immersion ion implantation. <i>Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2007, 444, 192-197.	5.6	21
770	Electromagnetic drift waves in nonuniform quantum magnetized electron-positron ion plasmas. <i>Journal of Physics A: Mathematical and Theoretical</i> , 2008, 41, 115501.	2.1	21
771	Microstructure and mechanical properties of CrN films fabricated by high power pulsed magnetron discharge plasma immersion ion implantation and deposition. <i>Applied Surface Science</i> , 2011, 258, 242-246.	6.1	21
772	High-sensitivity biosensors fabricated by tailoring the localized surface plasmon resonance property of core-shell gold nanorods. <i>Analytica Chimica Acta</i> , 2011, 683, 242-247.	5.4	21
773	Growth of tin oxide nanorods induced by nanocube-oriented coalescence mechanism. <i>Applied Physics Letters</i> , 2011, 98, 133102.	3.3	21
774	Group velocity of extraordinary waves in superdense magnetized quantum plasma with spin-1/2 effects. <i>Physics of Plasmas</i> , 2012, 19, .	1.9	21

#	ARTICLE	IF	CITATIONS
775	Effect of plasma CVD operating temperature on nanomechanical properties of TiC nanostructured coating investigated by atomic force microscopy. <i>Materials Research Bulletin</i> , 2012, 47, 2200-2205.	5.2	21
776	Functionalization of biomedical materials using plasma and related technologies. <i>Applied Surface Science</i> , 2014, 310, 11-18.	6.1	21
777	Competitive Reaction Pathway for Site-Selective Conjugation of Raman Dyes to Hotspots on Gold Nanorods for Greatly Enhanced SERS Performance. <i>Small</i> , 2014, 10, 4012-4019.	10.0	21
778	Characterization of carbon ion implantation induced graded microstructure and phase transformation in stainless steel. <i>Materials Characterization</i> , 2015, 106, 11-19.	4.4	21
779	Self-Supporting and Binder-Free Anode Film Composed of Beaded Stream-Like $\text{Li}_4\text{Ti}_5\text{O}_{12}$ Nanoparticles for High-Performance Lithium-Ion Batteries. <i>ChemElectroChem</i> , 2016, 3, 1301-1305.	3.4	21
780	Oriented MoS_2 Nanoflakes on N-Doped Carbon Nanosheets Derived from Dodecylamine-Intercalated MoO_3 for High-Performance Lithium-Ion Battery Anodes. <i>ChemElectroChem</i> , 2018, 5, 1350-1356.	3.4	21
781	High-ion-energy and low-temperature deposition of diamond-like carbon (DLC) coatings with pulsed kV bias. <i>Surface and Coatings Technology</i> , 2019, 365, 152-157.	4.8	21
782	Formation of self-layered hydrothermal coating on magnesium aided by titanium ion implantation: Synergistic control of corrosion resistance and cytocompatibility. <i>Surface and Coatings Technology</i> , 2020, 401, 126251.	4.8	21
783	Strain-enhanced power conversion efficiency of a BP/SnSe van der Waals heterostructure. <i>Physical Chemistry Chemical Physics</i> , 2020, 22, 14787-14795.	2.8	21
784	Structural engineering of hierarchically heterostructured $\text{Mo}_2\text{C}/\text{Co}$ conformally embedded in carbon for efficient water splitting. <i>International Journal of Hydrogen Energy</i> , 2020, 45, 22629-22637.	7.1	21
785	Electrochemical stability, corrosion behavior, and biological properties of NiTiO nanoporous layers anodically on NiTi alloy. <i>Corrosion Science</i> , 2021, 179, 109104.	6.6	21
786	Selective inhibition effects on cancer cells and bacteria of NiTiO nanoporous layers grown on biomedical NiTi alloy by anodization. <i>Rare Metals</i> , 2022, 41, 78-85.	7.1	21
787	Programmed surface on poly(aryl-ether-ether-ketone) initiating immune mediation and fulfilling bone regeneration sequentially. <i>Innovation(China)</i> , 2021, 2, 100148.	9.1	21
788	Low-frequency Raman scattering of Ge and Si nanocrystals in silica matrix. <i>Journal of Applied Physics</i> , 2005, 98, 064303.	2.5	20
789	Formation of apatite on hydrogenated amorphous silicon (a-Si:H) film deposited by plasma-enhanced chemical vapor deposition. <i>Materials Chemistry and Physics</i> , 2007, 101, 124-128.	4.0	20
790	Role of interface dipole in metal gate/high-k effective work function modulation by aluminum incorporation. <i>Applied Physics Letters</i> , 2009, 94, .	3.3	20
791	Oxygen vacancy density-dependent transformation from infrared to Raman active vibration mode in SnO_2 nanostructures. <i>Optics Letters</i> , 2011, 36, 4296.	3.3	20
792	Influence of Structure Parameters and Crystalline Phase on the Photocatalytic Activity of TiO_2 Nanotube Arrays. <i>Journal of Nanoscience and Nanotechnology</i> , 2011, 11, 11200-11205.	0.9	20

#	ARTICLE	IF	CITATIONS
793	Tunable electroluminescence from polymer-passivated 3C-SiC quantum dot thin films. <i>Applied Physics Letters</i> , 2012, 101, 123110.	3.3	20
794	Sensitive and simultaneous detection of different disease markers using multiplexed gold nanorods. <i>Analytica Chimica Acta</i> , 2012, 755, 108-114.	5.4	20
795	Thermal degradation and flame retarding characteristics of polypropylene composites incorporated with boron mud. <i>Composites Science and Technology</i> , 2013, 85, 131-135.	7.8	20
796	WO ₃ nanoparticles decorated core-shell TiC-C nanofiber arrays for high sensitive and non-enzymatic photoelectrochemical biosensing. <i>Chemical Communications</i> , 2013, 49, 7091.	4.1	20
797	Surface electromagnetic wave equations in a warm magnetized quantum plasma. <i>Physics of Plasmas</i> , 2014, 21, 072114.	1.9	20
798	Tensile loading induced phase transition and rippling in single-layer MoS ₂ . <i>Applied Surface Science</i> , 2017, 404, 180-187.	6.1	20
799	Monolithic Hierarchical Carbon Assemblies Embedded with Mesoporous NaTi ₂ (PO ₄) ₃ Nanocrystals for Flexible High-Performance Sodium Anodes. <i>Electrochimica Acta</i> , 2017, 254, 328-336.	5.2	20
800	Cellular response to nano-structured Zr and ZrO ₂ alloyed layers on Ti-6Al-4V. <i>Materials Science and Engineering C</i> , 2018, 90, 523-530.	7.3	20
801	Flexible Nb ₄ N ₅ /rGO Electrode for High-Performance Solid State Supercapacitors. <i>Journal of Nanoscience and Nanotechnology</i> , 2018, 18, 30-38.	0.9	20
802	Roles of membrane protein damage and intracellular protein damage in death of bacteria induced by atmospheric-pressure air discharge plasmas. <i>RSC Advances</i> , 2018, 8, 21139-21149.	3.6	20
803	Corrosion behavior of ZnO-reinforced coating on aluminum alloy prepared by plasma electrolytic oxidation. <i>Surface and Coatings Technology</i> , 2019, 374, 1015-1023.	4.8	20
804	Biochar/struvite composite as a novel potential material for slow release of N and P. <i>Environmental Science and Pollution Research</i> , 2019, 26, 17152-17162.	5.3	20
805	Graphite felt incorporated with MoS ₂ /rGO for electrochemical detoxification of high-arsenic fly ash. <i>Chemical Engineering Journal</i> , 2020, 382, 122763.	12.7	20
806	Hollow Spheres Consisting of SnS Nanosheets Conformally Coated with S-Doped Carbon for Advanced Lithium/Sodium Ion Battery Anodes. <i>ChemElectroChem</i> , 2020, 7, 914-921.	3.4	20
807	Electronic Modulation between Tungsten Nitride and Cobalt Dopants for Enhanced Hydrogen Evolution Reaction at a Wide Range of pH. <i>ChemCatChem</i> , 2020, 12, 2962-2966.	3.7	20
808	Electrochemical corrosion properties of AISI304 steel treated by low-temperature plasma immersion ion implantation. <i>Scripta Materialia</i> , 2000, 43, 417-422.	5.2	19
809	Plasma nitridation and microstructure of high-k ZrO ₂ thin films fabricated by cathodic arc deposition. <i>Journal of Crystal Growth</i> , 2005, 277, 422-427.	1.5	19
810	Experimental investigation of hybrid-evaporation-glow discharge plasma immersion ion implantation. <i>Journal of Applied Physics</i> , 2005, 97, 113301.	2.5	19

#	ARTICLE	IF	CITATIONS
811	In situ growth of aligned CdS nanowire arrays on Cd foil and their optical and electron field emission properties. <i>Journal of Applied Physics</i> , 2008, 104, 014312.	2.5	19
812	Corrosion behavior of chromium and oxygen plasma-modified magnesium in sulfate solution and simulated body fluid. <i>Applied Surface Science</i> , 2012, 258, 8273-8278.	6.1	19
813	Fluorine-containing pH-responsive core/shell microgel particles: preparation, characterization, and their applications in controlled drug release. <i>Colloid and Polymer Science</i> , 2012, 290, 349-357.	2.1	19
814	Evidence of atomically resolved 6Å–6 buffer layer with long-range order and short-range disorder during formation of graphene on 6H-SiC by thermal decomposition. <i>Applied Physics Letters</i> , 2013, 102, .	3.3	19
815	Effect of surface mechanical attrition treatment of titanium using alumina balls: surface roughness, contact angle and apatite forming ability. <i>Frontiers of Materials Science</i> , 2013, 7, 285-294.	2.2	19
816	Observation of inactivation of <i>Bacillus subtilis</i> spores under exposures of oxygen added argon atmospheric pressure plasma jet. <i>Japanese Journal of Applied Physics</i> , 2014, 53, 110310.	1.5	19
817	Trifunctional Polymeric Nanocomposites Incorporated with Fe ₃ O ₄ /Iodine-Containing Rare Earth Complex for Computed X-ray Tomography, Magnetic Resonance, and Optical Imaging. <i>ACS Applied Materials & Interfaces</i> , 2015, 7, 24523-24532.	8.0	19
818	Dominant Factors Governing the Electron Transfer Kinetics and Electrochemical Biosensing Properties of Carbon Nanofiber Arrays. <i>ACS Applied Materials & Interfaces</i> , 2016, 8, 28872-28879.	8.0	19
819	Low-temperature Synthesis of Mesoporous SiC Hollow Spheres by Magnesiothermic Reduction. <i>Journal of the American Ceramic Society</i> , 2016, 99, 1859-1861.	3.8	19
820	Enhanced corrosion resistance and biocompatibility of PMMA-coated ZK60 magnesium alloy. <i>Materials Letters</i> , 2016, 173, 178-181.	2.6	19
821	In situ fabrication of Ni nanoparticles on N-doped TiO ₂ nanowire arrays by nitridation of NiTiO ₃ for highly sensitive and enzyme-free glucose sensing. <i>Journal of Materials Chemistry B</i> , 2017, 5, 1779-1786.	5.8	19
822	Copolymer P(BS-co-LA) Enhanced Compatibility of PBS/PLA Composite. <i>Journal of Polymers and the Environment</i> , 2018, 26, 3060-3068.	5.0	19
823	Tantalum nitride films for corrosion protection of biomedical Mg-Y-RE alloy. <i>Journal of Alloys and Compounds</i> , 2018, 764, 947-958.	5.5	19
824	Simultaneous texturing and conductivity tailoring of mesoporous NaTi ₂ (PO ₄) ₃ nanocrystals by gadolinium doping for enhanced Na storage. <i>Electrochimica Acta</i> , 2019, 309, 177-186.	5.2	19
825	Corrosion protection and enhanced biocompatibility of biomedical Mg-Y-RE alloy coated with tin dioxide. <i>Surface and Coatings Technology</i> , 2019, 357, 78-82.	4.8	19
826	Ultrathin carbon layer-encapsulated TiN nanotubes array with enhanced capacitance and electrochemical stability for supercapacitors. <i>Applied Surface Science</i> , 2020, 503, 144293.	6.1	19
827	Enhanced Peltier Effect in Wrinkled Graphene Constriction by Nano-Bubble Engineering. <i>Small</i> , 2020, 16, e1907170.	10.0	19
828	Comparative study of TiAlN coatings deposited by different high-ionization physical vapor deposition techniques. <i>Ceramics International</i> , 2020, 46, 10814-10819.	4.8	19

#	ARTICLE	IF	CITATIONS
829	A zinc-doped coating prepared on the magnesium alloy by plasma electrolytic oxidation for corrosion protection. <i>Surface and Coatings Technology</i> , 2022, 433, 128148.	4.8	19
830	Effects of cathode materials and arc current on optimal bias of a cathodic arc through a magnetic duct. <i>Applied Physics Letters</i> , 2002, 80, 3700-3702.	3.3	18
831	Fabrication of SOI structure with AlN film as buried insulator by Ion-Cut process. <i>Applied Surface Science</i> , 2002, 199, 287-292.	6.1	18
832	Silicon-induced DNA damage pathway and its modulation by titanium plasma immersion ion implantation. <i>Biomaterials</i> , 2008, 29, 544-550.	11.4	18
833	Electrostatic drift waves in nonuniform quantum magnetized plasmas. <i>Physics of Plasmas</i> , 2008, 15, 082103.	1.9	18
834	Surface-enhanced Raman scattering from silver nanostructures with different morphologies. <i>Applied Physics A: Materials Science and Processing</i> , 2010, 100, 83-88.	2.3	18
835	Extraction of organic materials from red water by metal-impregnated lignite activated carbon. <i>Journal of Hazardous Materials</i> , 2011, 197, 352-360.	12.4	18
836	An undercutting model of atomic oxygen for multilayer silica/alumina films fabricated by plasma immersion implantation and deposition on polyimide. <i>Applied Surface Science</i> , 2011, 257, 9158-9163.	6.1	18
837	Electrochemical Characteristics of Discrete, Uniform, and Monodispersed Hollow Mesoporous Carbon Spheres in Double-Layered Supercapacitors. <i>Chemistry - an Asian Journal</i> , 2013, 8, 2627-2633.	3.3	18
838	Electrochemical analysis of nickel electrode deposited on silicon microchannel plate. <i>Electrochimica Acta</i> , 2013, 90, 344-349.	5.2	18
839	Effects of carbon dioxide plasma immersion ion implantation on the electrochemical properties of AZ31 magnesium alloy in physiological environment. <i>Applied Surface Science</i> , 2013, 286, 257-260.	6.1	18
840	Plasma and ion-beam modification of metallic biomaterials for improved anti-bacterial properties. <i>Surface and Coatings Technology</i> , 2016, 306, 140-146.	4.8	18
841	Hafnium-implanted WE43 magnesium alloy for enhanced corrosion protection and biocompatibility. <i>Surface and Coatings Technology</i> , 2016, 306, 11-15.	4.8	18
842	A sandwich-type electrochemical immunosensor based on the biotin-streptavidin-biotin structure for detection of human immunoglobulin G. <i>Scientific Reports</i> , 2016, 6, 22694.	3.3	18
843	Titania-zinc phosphate/nanocrystalline zinc composite coatings for corrosion protection of biomedical WE43 magnesium alloy. <i>Surface and Coatings Technology</i> , 2021, 410, 126940.	4.8	18
844	Quantitative determination of boron and phosphorus in borophosphosilicate glass by secondary ion mass spectrometry. <i>Analytical Chemistry</i> , 1985, 57, 1071-1074.	6.5	17
845	In situ sample temperature measurement in plasma immersion ion implantation. <i>Review of Scientific Instruments</i> , 1999, 70, 2818-2821.	1.3	17
846	Contamination issues in hydrogen plasma immersion ion implantation of silicon—a brief review. <i>Surface and Coatings Technology</i> , 2002, 156, 244-252.	4.8	17

#	ARTICLE	IF	CITATIONS
847	Silicon carbide formation by methane plasma immersion ion implantation into silicon. <i>Journal of Vacuum Science & Technology an Official Journal of the American Vacuum Society B, Microelectronics Processing and Phenomena</i> , 2003, 21, 1375.	1.6	17
848	Visible cathodoluminescence of 4 Å... single-walled carbon nanotubes. <i>Applied Physics Letters</i> , 2005, 87, 213114.	3.3	17
849	Improvement of adhesion strength of amorphous carbon films on tungsten ion implanted 321 stainless steel substrate. <i>Diamond and Related Materials</i> , 2006, 15, 952-957.	3.9	17
850	Mechanism of mechanical property enhancement in nitrogen and titanium implanted 321 stainless steel. <i>Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2006, 425, 1-6.	5.6	17
851	Behavior of endothelial cells on micro-patterned titanium oxide fabricated by plasma immersion ion implantation and deposition and plasma etching. <i>Surface and Coatings Technology</i> , 2007, 201, 6874-6877.	4.8	17
852	Platelet activation behavior on nitrogen plasma-implanted silicon. <i>Materials Science and Engineering C</i> , 2007, 27, 928-932.	7.3	17
853	Catalysis of dispersed silver particles on directional etching of silicon. <i>Applied Surface Science</i> , 2008, 254, 3061-3066.	6.1	17
854	Corrosion behavior of ZnO nanosheets on brass substrate in NaCl solutions. <i>Materials Chemistry and Physics</i> , 2009, 115, 439-443.	4.0	17
855	Biocompatibility of silver and copper plasma doped polyethylene. <i>Surface and Coatings Technology</i> , 2009, 203, 2550-2553.	4.8	17
856	Controllable Growth of Conical and Cylindrical TiO ₂ "Carbon Core" Shell Nanofiber Arrays and Morphologically Dependent Electrochemical Properties. <i>Chemistry - A European Journal</i> , 2011, 17, 14552-14558.	3.3	17
857	Low-frequency Raman scattering of bioinspired self-assembled diphenylalanine nanotubes/microtubes. <i>Optics Express</i> , 2012, 20, 5119.	3.4	17
858	Optical properties and chemical structures of Kapton-H film after proton irradiation by immersion in a hydrogen plasma. <i>Applied Surface Science</i> , 2012, 258, 3829-3834.	6.1	17
859	Novel anionic fluorine-containing amphiphilic self-assembly polymer micelles for potential application in protein drug carrier. <i>Journal of Fluorine Chemistry</i> , 2012, 141, 21-28.	1.7	17
860	Concentration- and time-dependent response of human gingival fibroblasts to fibroblast growth factor 2 immobilized on titanium dental implants. <i>International Journal of Nanomedicine</i> , 2012, 7, 1965.	6.7	17
861	Electronic states and photoluminescence of TiO ₂ nanotubes with adsorbed surface oxygen. <i>Applied Physics Letters</i> , 2012, 100, 121904.	3.3	17
862	Improved corrosion resistance of Mg-Y-RE alloy coated with niobium nitride. <i>Thin Solid Films</i> , 2014, 572, 85-90.	1.8	17
863	Size-dependent deformation behavior of nanocrystalline graphene sheets. <i>Materials Science and Engineering B: Solid-State Materials for Advanced Technology</i> , 2015, 198, 95-101.	3.5	17
864	Corrosion resistance of praseodymium-ion-implanted TiN coatings in blood and cytocompatibility with vascular endothelial cells. <i>Vacuum</i> , 2015, 117, 73-80.	3.5	17

#	ARTICLE	IF	CITATIONS
865	Removal of organic pollutants from red water by magnetic-activated coke. <i>Desalination and Water Treatment</i> , 2015, 54, 2710-2722.	1.0	17
866	Zinc Electrodeposition on Polycrystalline Copper: Electrochemical Study of Early-Stage Growth Mechanism. <i>Journal of Physical Chemistry C</i> , 2017, 121, 3938-3946.	3.1	17
867	Inherent Chemotherapeutic Anti-Cancer Effects of Low-Dimensional Nanomaterials. <i>Chemistry - A European Journal</i> , 2019, 25, 10995-11006.	3.3	17
868	Formation of ultra-small Mn ₃ O ₄ nanoparticles trapped in nanochannels of hollow carbon spheres by nanoconfinement with excellent supercapacitor performance. <i>International Journal of Hydrogen Energy</i> , 2019, 44, 13675-13683.	7.1	17
869	Improving exposure of anodically ordered Ni-Ti-O and corrosion resistance and biological properties of NiTi alloys by substrate electropolishing. <i>Rare Metals</i> , 2021, 40, 3575-3587.	7.1	17
870	Plasma-activated interfaces for biomedical engineering. <i>Bioactive Materials</i> , 2021, 6, 2134-2143.	15.6	17
871	Circular anti-resonance fibre supporting orbital angular momentum modes with flat dispersion, high purity and low confinement loss. <i>Journal of Modern Optics</i> , 2021, 68, 784-791.	1.3	17
872	Ag as Cocatalyst and Electron-Hole Medium in CeO ₂ QDs/Ag/Ag ₂ Se Z-scheme Heterojunction Enhanced the Photo-Electrocatalytic Properties of the Photoelectrode. <i>Nanomaterials</i> , 2020, 10, 253.	4.1	17
873	Versatile Phenol-Incorporated Nanoframes for In Situ Antibacterial Activity Based on Oxidative and Physical Damages. <i>Advanced Functional Materials</i> , 2022, 32, .	14.9	17
874	Surface metal contamination on silicon wafers after hydrogen plasma immersion ion implantation. <i>Nuclear Instruments & Methods in Physics Research B</i> , 1999, 155, 75-78.	1.4	16
875	Formation of silicon-on-diamond by direct bonding of plasma-synthesized diamond-like carbon to silicon. <i>Applied Physics Letters</i> , 2004, 85, 2532-2534.	3.3	16
876	Cu oxide nanowire array grown on Si-based SiO ₂ nanoscale islands via nanochannels. <i>Acta Materialia</i> , 2004, 52, 5051-5055.	7.9	16
877	In situ fabrication of alumina nanotube array and photoluminescence. <i>Applied Physics Letters</i> , 2006, 89, 073114.	3.3	16
878	Optical and mechanical properties of alumina films fabricated on Kapton polymer by plasma immersion ion implantation and deposition using different biases. <i>Applied Surface Science</i> , 2007, 253, 9483-9488.	6.1	16
879	Recent Progress in Fabrication of Anisotropic Nanostructures for Surface- Enhanced Raman Spectroscopy. <i>Recent Patents on Nanotechnology</i> , 2009, 3, 10-20.	1.3	16
880	Aligned silver nanorod arrays for surface-enhanced Raman spectroscopy. <i>Physica B: Condensed Matter</i> , 2009, 404, 1523-1526.	2.7	16
881	Phase transformation and size tuning in controlled-growth of nanocrystals via self-seeded nucleation with preferential thermodynamic stability. <i>Chemical Communications</i> , 2011, 47, 12544.	4.1	16
882	Dual Ti and C ion-implanted stainless steel bipolar plates in polymer electrolyte membrane fuel cells. <i>Surface and Coatings Technology</i> , 2012, 206, 2914-2921.	4.8	16

#	ARTICLE	IF	CITATIONS
883	Fluorine-containing thermo-sensitive core/shell microgel particles: Preparation, characterization, and their applications in controlled drug release. <i>Journal of Fluorine Chemistry</i> , 2012, 135, 75-82.	1.7	16
884	Synergistic effect of chloride ion and albumin on the corrosion of pure magnesium. <i>Frontiers of Materials Science</i> , 2014, 8, 244-255.	2.2	16
885	Substitutional doping of Ag into epitaxial graphene on 6H-SiC substrates during thermal decomposition. <i>Carbon</i> , 2016, 104, 233-240.	10.3	16
886	Fabrication and enhanced supercapacitance of hollow nanostructured MoS ₂ prepared by a CATB-assisted hydrothermal process. <i>Materials Letters</i> , 2016, 184, 96-99.	2.6	16
887	Smart polymeric particle encapsulated gadolinium oxide and europium: theranostic probes for magnetic resonance/optical imaging and antitumor drug delivery. <i>Journal of Materials Chemistry B</i> , 2016, 4, 1100-1107.	5.8	16
888	Preparation and effectiveness of slow-release silicon fertilizer by sintering with iron ore tailings. <i>Environmental Progress and Sustainable Energy</i> , 2018, 37, 1011-1019.	2.3	16
889	Effects of dopant separation on electronic states and magnetism in monolayer MoS ₂ . <i>Applied Surface Science</i> , 2018, 428, 226-232.	6.1	16
890	Hybrid ZnO-graphene electrode with palladium nanoparticles on Ni foam and application to self-powered nonenzymatic glucose sensing. <i>RSC Advances</i> , 2019, 9, 12134-12145.	3.6	16
891	Air-stable n-doped black phosphorus transistor by thermal deposition of metal adatoms. <i>Nanotechnology</i> , 2019, 30, 135201.	2.6	16
892	Composite plates utilizing dealkalized red mud, acid leaching slag and dealkalized red mud-fly ash: Preparation and performance comparison. <i>Construction and Building Materials</i> , 2020, 261, 120495.	7.2	16
893	Black phosphorus: Versatile two-dimensional materials in cancer therapies. <i>View</i> , 2021, 2, 20200043.	5.3	16
894	In situ preparation of Mn-doped perovskite nanocrystalline films and application to white light emitting devices. <i>Journal of Colloid and Interface Science</i> , 2022, 606, 1163-1169.	9.4	16
895	Size-dependent flame retardancy of black phosphorus nanosheets. <i>Nanoscale</i> , 2022, 14, 2599-2604.	5.6	16
896	A silicate-loaded MgAl LDH self-healing coating on biomedical Mg alloys for corrosion retardation and cytocompatibility enhancement. <i>Surface and Coatings Technology</i> , 2022, 439, 128442.	4.8	16
897	Multiple ion-focusing effects in plasma immersion ion implantation. <i>Applied Physics Letters</i> , 2002, 81, 3744-3746.	3.3	15
898	Effects of assistant anode on planar inductively coupled magnetized argon plasma in plasma immersion ion implantation. <i>Journal of Applied Physics</i> , 2003, 93, 5883-5887.	2.5	15
899	Influence of ion energies on the surface morphology of carbon films. <i>Surface and Coatings Technology</i> , 2005, 196, 241-245.	4.8	15
900	Effects of O ₂ and H ₂ O plasma immersion ion implantation on surface chemical composition and surface energy of poly vinyl chloride. <i>Applied Surface Science</i> , 2006, 252, 7884-7889.	6.1	15

#	ARTICLE	IF	CITATIONS
901	Hydrogen plasma surface activation of silicon for biomedical applications. <i>New Biotechnology</i> , 2007, 24, 113-117.	2.7	15
902	In vitro corrosion behavior of TiN layer produced on orthopedic nickel-titanium shape memory alloy by nitrogen plasma immersion ion implantation using different frequencies. <i>Surface and Coatings Technology</i> , 2008, 202, 2463-2466.	4.8	15
903	Nano-Scale Surface Morphology, Wettability and Osteoblast Adhesion on Nitrogen Plasma-Implanted NiTi Shape Memory Alloy. <i>Journal of Nanoscience and Nanotechnology</i> , 2009, 9, 3449-3454.	0.9	15
904	Surface mechanical attrition treatment induced phase transformation behavior in NiTi shape memory alloy. <i>Journal of Alloys and Compounds</i> , 2009, 482, 298-301.	5.5	15
905	DLC deposition inside tubes using hollow cathode discharge plasma immersion ion implantation and deposition. <i>Surface and Coatings Technology</i> , 2010, 204, 2909-2912.	4.8	15
906	Fabrication and Photocatalytic Activity of Nanoporous WO ₃ Film. <i>Nanoscience and Nanotechnology Letters</i> , 2010, 2, 51-57.	0.4	15
907	Longitudinal optical phonon-plasmon coupling in luminescent 3C-SiC nanocrystal films. <i>Optics Letters</i> , 2010, 35, 4024.	3.3	15
908	Atomic layer deposition of platinum thin films on anodic aluminium oxide templates as surface-enhanced Raman scattering substrates. <i>Vacuum</i> , 2013, 89, 257-260.	3.5	15
909	Fabrication of highly ordered porous nickel oxide anode materials and their electrochemical characteristics in lithium storage. <i>Journal of Alloys and Compounds</i> , 2014, 594, 65-69.	5.5	15
910	Electrodeposition of nanostructured MnO ₂ electrode on three-dimensional nickel/silicon microchannel plates for miniature supercapacitors. <i>Materials Letters</i> , 2014, 126, 116-118.	2.6	15
911	Robust Electrodes Based on Coaxial TiC/C-MnO ₂ Core/Shell Nanofiber Arrays with Excellent Cycling Stability for High-Performance Supercapacitors. <i>Small</i> , 2015, 11, 1847-1856.	10.0	15
912	Hybrid Co(OH) ₂ /nano-graphene/Ni nano-composites on silicon microchannel plates for miniature supercapacitors. <i>Materials Letters</i> , 2016, 172, 40-43.	2.6	15
913	Fabrication of Ni-Ti-O nanoporous film on NiTi alloy in ethylene glycol containing NaCl. <i>Surface and Coatings Technology</i> , 2017, 321, 136-145.	4.8	15
914	Template growth of Au/Ag nanocomposites on phosphorene for sensitive SERS detection of pesticides. <i>Nanotechnology</i> , 2019, 30, 275604.	2.6	15
915	Multiple flocculant prepared with dealkalized red mud and fly ash: Properties and characterization. <i>Journal of Water Process Engineering</i> , 2020, 34, 101173.	5.6	15
916	Highly active cobalt-doped nickel sulfide porous nanocones for high-performance quasi-solid-state zinc-ion batteries. <i>Journal of Energy Chemistry</i> , 2022, 66, 237-249.	12.9	15
917	Tuning Superhydrophobic Materials with Negative Surface Energy Domains. <i>Research</i> , 2019, 2019, 1391804.	5.7	15
918	Investigation of low-pressure elevated-temperature plasma immersion ion implantation of AISI 304 stainless steel. <i>Journal of Vacuum Science and Technology A: Vacuum, Surfaces and Films</i> , 2001, 19, 1008-1012.	2.1	14

#	ARTICLE	IF	CITATIONS
919	Effects of bias voltage on the corrosion resistance of titanium nitride thin films fabricated by dynamic plasma immersion ion implantation-deposition. <i>Journal of Vacuum Science and Technology A: Vacuum, Surfaces and Films</i> , 2002, 20, 160-164.	2.1	14
920	Relaxed silicon-germanium-on-insulator substrates by oxygen implantation into pseudomorphic silicon germanium/silicon heterostructure. <i>Applied Physics Letters</i> , 2003, 82, 2452-2454.	3.3	14
921	Influence of thickness and dielectric properties on implantation efficacy in plasma immersion ion implantation of insulators. <i>Journal of Applied Physics</i> , 2004, 95, 3319-3323.	2.5	14
922	Effects of nitrogen ion implantation and implantation energy on surface properties and adhesion strength of TiN films deposited on aluminum by magnetron sputtering. <i>Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2006, 415, 140-144.	5.6	14
923	Spontaneous reorientation of bimetal multilayer nanowires. <i>Applied Physics Letters</i> , 2007, 91, 253114.	3.3	14
924	Improvement of interfacial and microstructure properties of high-k ZrO ₂ thin films fabricated by filtered cathodic arc deposition using nitrogen incorporation. <i>Surface and Coatings Technology</i> , 2007, 201, 8282-8285.	4.8	14
925	Effects of tungsten pre-implanted layer on corrosion and electrochemical characteristics of amorphous carbon films on stainless steel. <i>Diamond and Related Materials</i> , 2008, 17, 1738-1742.	3.9	14
926	Nanocrystal-induced line narrowing of surface acoustic phonons in the Raman spectra of embedded Ge nanocrystals. <i>Physical Review B</i> , 2008, 78, .	3.2	14
927	Raman investigation of oxidation mechanism of silicon nanowires. <i>Applied Physics Letters</i> , 2009, 95, .	3.3	14
928	Nickel release behavior and surface characteristics of porous NiTi shape memory alloy modified by different chemical processes. <i>Journal of Biomedical Materials Research - Part A</i> , 2009, 89A, 483-489.	4.0	14
929	Nano-networks have better adsorption capability than nano-rods. <i>Nano Communication Networks</i> , 2010, 1, 257-263.	2.9	14
930	Activation of mitogen-activated protein kinases cellular signal transduction pathway in mammalian cells induced by silicon carbide nanowires. <i>Biomaterials</i> , 2010, 31, 7856-7862.	11.4	14
931	Three-dimensional supercapacitors composed of Ba _{0.65} Sr _{0.35} TiO ₃ (BST)/NiSi ₂ /silicon microchannel plates. <i>Materials Science and Engineering B: Solid-State Materials for Advanced Technology</i> , 2011, 176, 387-392.	3.5	14
932	Electron field emission enhanced by geometric and quantum effects from nanostructured AlGaIn/GaN quantum wells. <i>Applied Physics Letters</i> , 2011, 98, 152110.	3.3	14
933	Micrograph and structure of CrN films prepared by plasma immersion ion implantation and deposition using HPPMS plasma source. <i>Surface and Coatings Technology</i> , 2013, 229, 210-216.	4.8	14
934	Effect of high fluence Au ion irradiation on nanocrystalline tungsten film. <i>Journal of Nuclear Materials</i> , 2013, 442, 189-194.	2.7	14
935	Irradiation effects on multilayered W/ZrO ₂ film under 4 MeV Au ions. <i>Journal of Nuclear Materials</i> , 2014, 455, 86-90.	2.7	14
936	Enhanced cytocompatibility and reduced genotoxicity of polydimethylsiloxane modified by plasma immersion ion implantation. <i>Colloids and Surfaces B: Biointerfaces</i> , 2016, 148, 139-146.	5.0	14

#	ARTICLE	IF	CITATIONS
937	Recent advances in anti-infection surfaces fabricated on biomedical implants by plasma-based technology. <i>Surface and Coatings Technology</i> , 2017, 312, 2-6.	4.8	14
938	Highly Luminescent and Stable SiO ₂ -Based CsPbBr ₃ Quantum Dot Thin Films Prepared by Glow Discharge Plasma with Real-time and In Situ Diagnosis. <i>Advanced Functional Materials</i> , 2018, 28, 1805214.	14.9	14
939	Hard and adherent a-C:H gradient coatings by stress engineering. <i>Journal of Alloys and Compounds</i> , 2018, 765, 921-926.	5.5	14
940	Highly sensitive PCF-SPR biosensor for hyperthermia temperature monitoring. <i>Journal of Optics (India)</i> , 2018, 47, 288-294.	1.7	14
941	Investigation of corrosion mechanism of NiTi modified by carbon plasma immersion ion implantation (C-PIII) by electrochemical impedance spectroscopy. <i>Journal of Alloys and Compounds</i> , 2019, 790, 1067-1075.	5.5	14
942	Lithium ion trapping mechanism of SiO ₂ in LiCoO ₂ based memristors. <i>Scientific Reports</i> , 2019, 9, 5081.	3.3	14
943	Modification of Layered Graphitic Carbon Nitride by Nitrogen Plasma for Improved Electrocatalytic Hydrogen Evolution. <i>Nanomaterials</i> , 2019, 9, 568.	4.1	14
944	Recent Progress in Electrode Materials for Nonaqueous Lithium-Ion Capacitors. <i>Journal of Nanoscience and Nanotechnology</i> , 2020, 20, 2652-2667.	0.9	14
945	A Biomimetic Nano-engineered Platform for Functional Tissue Engineering of Cartilage Superficial Zone. <i>Advanced Healthcare Materials</i> , 2021, 10, e2001018.	7.6	14
946	Activating Carbon Nitride by BP@Ni for the Enhanced Photocatalytic Hydrogen Evolution and Selective Benzyl Alcohol Oxidation. <i>ACS Applied Materials & Interfaces</i> , 2021, 13, 50988-50995.	8.0	14
947	Diamond-like carbon coating and surface grafting of osteoprotegerin and alendronate on polyetheretherketone to ameliorate the mechanical performance and osseointegration simultaneously. <i>Composites Part B: Engineering</i> , 2022, 236, 109815.	12.0	14
948	A highly sensitive D-type photonic crystal fiber infrared sensor with indium tin oxide based on surface plasmon resonance. <i>Modern Physics Letters B</i> , 2022, 36, .	1.9	14
949	Plasmon-enhanced hydrogen evolution on Pt-anchored titanium nitride nanowire arrays. <i>Applied Surface Science</i> , 2022, 598, 153745.	6.1	14
950	General synthesis of nanostructured Mo ₂ C electrocatalysts using a carbon template for electrocatalytic applications. <i>Carbon</i> , 2022, 197, 238-245.	10.3	14
951	Plasma immersion ion implantation for SOI synthesis: SIMOX and ion-cut. <i>Journal of Electronic Materials</i> , 1998, 27, 1059-1066.	2.2	13
952	Efficacy of high-frequency, low-voltage plasma immersion ion implantation of a bar-shaped target. <i>Journal of Applied Physics</i> , 2000, 88, 2221-2225.	2.5	13
953	Profile control in BF ₃ plasma doping. <i>Journal of Applied Physics</i> , 2000, 88, 3198-3201.	2.5	13
954	Energy distribution and depth profile in BF ₃ plasma doping. <i>Surface and Coatings Technology</i> , 2001, 136, 146-150.	4.8	13

#	ARTICLE	IF	CITATIONS
955	Mechanism of apatite formation on hydrogen plasma-implanted single-crystal silicon. <i>Applied Physics Letters</i> , 2004, 85, 3623-3625.	3.3	13
956	Effects of mesh-assisted carbon plasma immersion ion implantation on the surface properties of insulating silicon carbide ceramics. <i>Journal of Vacuum Science and Technology A: Vacuum, Surfaces and Films</i> , 2004, 22, 356-360.	2.1	13
957	Formation of Si-based nano-island array on porous anodic alumina. <i>Acta Materialia</i> , 2004, 52, 5633-5637.	7.9	13
958	Light emission from as-prepared and oxidized Si nanowires with diameters of 5–15 nm. <i>Journal of Crystal Growth</i> , 2005, 285, 620-626.	1.5	13
959	Improvement on corrosion resistance of NiTi orthopedic materials by carbon plasma immersion ion implantation. <i>Nuclear Instruments & Methods in Physics Research B</i> , 2006, 242, 270-274.	1.4	13
960	Fabrication of silicon-on-SiO ₂ /diamondlike-carbon dual insulator using ion cutting and mitigation of self-heating effects. <i>Applied Physics Letters</i> , 2006, 88, 142108.	3.3	13
961	New plasma surface-treated memory alloys: Towards a new generation of "smart" orthopaedic materials. <i>Materials Science and Engineering C</i> , 2008, 28, 454-459.	7.3	13
962	Synthesis, growth mechanism, and light-emission properties of twisted SiO ₂ nanobelts and nanosprings. <i>Journal of Chemical Physics</i> , 2008, 129, 164702.	3.0	13
963	Effects of long pulse width and high pulsing frequency on surface superhydrophobicity of polytetrafluoroethylene in quasi-direct-current plasma immersion ion implantation. <i>Journal of Applied Physics</i> , 2009, 105, 053302.	2.5	13
964	Fabrication and optical properties of C ₆₀ -SiC/Si hybrid rolled-up microtubes. <i>Journal of Applied Physics</i> , 2009, 105, 016103.	2.5	13
965	Capacitive humidity sensing behavior of ordered Ni/Si microchannel plate nanocomposites. <i>Sensors and Actuators A: Physical</i> , 2010, 160, 48-53.	4.1	13
966	Synthesis and characterization of fluorescent copolymer containing rare earth metal complex and its interaction with DNA. <i>Journal of Polymer Science Part A</i> , 2010, 48, 5961-5967.	2.3	13
967	Ultralow-threshold field emission from oriented nanostructured GaN films on Si substrate. <i>Applied Physics Letters</i> , 2010, 96, 092101.	3.3	13
968	Twinning Ge _{0.54} Si _{0.46} nanocrystal growth mechanism in amorphous SiO ₂ films. <i>Applied Physics Letters</i> , 2010, 96, .	3.3	13
969	Identification of local silicon cluster nanostructures inside Si _x Ge _{1-x} alloy nanocrystals by Raman spectroscopy. <i>Chemical Communications</i> , 2010, 46, 5539.	4.1	13
970	Arrays of nanofibers composed of a TiC core and a carbon coating for sensitive electrochemical detection of hydrazine. <i>Mikrochimica Acta</i> , 2011, 175, 137-143.	5.0	13
971	In vitro corrosion inhibition on biomedical shape memory alloy by plasma-polymerized allylamine film. <i>Materials Letters</i> , 2012, 89, 51-54.	2.6	13
972	Improved in vitro and in vivo biocompatibility of dual plasma modified titanium alloy. <i>Surface and Coatings Technology</i> , 2013, 229, 130-134.	4.8	13

#	ARTICLE	IF	CITATIONS
973	Structure and properties of TiC/Ti coatings fabricated on NiTi by plasma immersion ion implantation and deposition. <i>Vacuum</i> , 2013, 89, 238-243.	3.5	13
974	Electronic states in hybrid boron nitride and graphene structures. <i>Journal of Applied Physics</i> , 2013, 114, 063707.	2.5	13
975	Crystallization Effects of Nanocrystalline GaN Films on Field Emission. <i>Journal of Physical Chemistry C</i> , 2013, 117, 1518-1523.	3.1	13
976	Size-dependent elastic modulus of single-layer MoS ₂ nano-sheets. <i>Journal of Materials Science</i> , 2016, 51, 6850-6859.	3.7	13
977	Unusual anti-bacterial behavior and corrosion resistance of magnesium alloy coated with diamond-like carbon. <i>RSC Advances</i> , 2016, 6, 14756-14762.	3.6	13
978	Highly efficient field emission from ZnO nanorods and nanographene hybrids on a macroporous electric conductive network. <i>Journal of Materials Chemistry C</i> , 2017, 5, 9296-9305.	5.5	13
979	Effects of diamond-like carbon film on the corrosion behavior of NdFeB permanent magnet. <i>Surface and Coatings Technology</i> , 2017, 312, 66-74.	4.8	13
980	Highly efficient field emission from indium-doped ZnO nanostructure on nanographene/macroporous electric conductive network. <i>Materials Letters</i> , 2018, 222, 25-28.	2.6	13
981	Effects of Benzotriazole on nano-mechanical properties of zirconia-alumina-Benzotriazole nanocomposite coating deposited on Al 2024 by the sol-gel method. <i>Applied Physics A: Materials Science and Processing</i> , 2019, 125, 1.	2.3	13
982	Co ₃ O ₄ and Co(OH) ₂ loaded graphene on Ni foam for high-performance supercapacitor electrode. <i>Ionics</i> , 2019, 25, 1783-1792.	2.4	13
983	Abrasion and erosion behavior of DLC-coated oil-well tubings in a heavy oil/sand environment. <i>Surface and Coatings Technology</i> , 2019, 357, 379-383.	4.8	13
984	Modeling and plasma characteristics of high-power direct current discharge. <i>Plasma Sources Science and Technology</i> , 2020, 29, 025016.	3.1	13
985	Study of TiAlN coatings deposited by continuous high power magnetron sputtering (C-HPMS). <i>Surface and Coatings Technology</i> , 2020, 402, 126315.	4.8	13
986	Enhanced discharge and surface properties of TiSiCN coatings deposited by pulse-enhanced vacuum arc evaporation. <i>Surface and Coatings Technology</i> , 2020, 403, 126413.	4.8	13
987	Articular cartilage inspired bilayer coating on Ti6Al4V alloy with low friction and high load-bearing properties. <i>Applied Surface Science</i> , 2020, 515, 146065.	6.1	13
988	Substitution of quartz and clay with fly ash in the production of architectural ceramics: A mechanistic study. <i>Ceramics International</i> , 2021, 47, 12514-12525.	4.8	13
989	Insights into enhancement of photocatalytic properties of g-C ₃ N ₄ by local electric field induced by polarization of MgO(111). <i>Journal of Environmental Chemical Engineering</i> , 2021, 9, 105922.	6.7	13
990	Secondary ion mass spectrometric image depth profile analysis of thin layers. <i>Analytical Chemistry</i> , 1982, 54, 2208-2210.	6.5	12

#	ARTICLE	IF	CITATIONS
991	Nitrogen depth profiles in plasma implanted stainless steel. <i>Physics Letters, Section A: General, Atomic and Solid State Physics</i> , 2002, 299, 577-580.	2.1	12
992	Determination of nitrogen-related defects in N-implanted ZnO films by dynamic cathodoluminescence. <i>Nuclear Instruments & Methods in Physics Research B</i> , 2005, 237, 307-311.	1.4	12
993	Microwave-cut silicon layer transfer. <i>Applied Physics Letters</i> , 2005, 87, 224103.	3.3	12
994	Silicon layer transfer using plasma hydrogenation. <i>Applied Physics Letters</i> , 2005, 87, 111910.	3.3	12
995	Nitrogen binding behavior in ZnO films with time-resolved cathodoluminescence. <i>Applied Surface Science</i> , 2006, 252, 8131-8134.	6.1	12
996	Silver nanocrystal superlattices: Self-assembly and optical emission. <i>Applied Physics Letters</i> , 2006, 88, 143111.	3.3	12
997	Effects of magnetic field gradient on ion beam current in cylindrical Hall ion source. <i>Journal of Applied Physics</i> , 2007, 102, 123305.	2.5	12
998	Polarized Raman scattering of Ge nanocrystals embedded in a-SiO ₂ . <i>Applied Physics Letters</i> , 2007, 90, 081909.	3.3	12
999	Behavior of human umbilical vein endothelial cells on micro-patterned amorphous hydrogenated carbon films produced by plasma immersion ion implantation & deposition and plasma etching. <i>Diamond and Related Materials</i> , 2007, 16, 550-557.	3.9	12
1000	Effects of plasma treatment on bioactivity of TiO ₂ coatings. <i>Surface and Coatings Technology</i> , 2007, 201, 6878-6881.	4.8	12
1001	In vitro bioactivity and osteoblast response on chemically modified biomedical porous NiTi synthesized by capsule-free hot isostatic pressing. <i>Surface and Coatings Technology</i> , 2008, 202, 2458-2462.	4.8	12
1002	Electrochemical Stability of Orthopedic Porous NiTi Shape Memory Alloys Treated by Different Surface Modification Techniques. <i>Journal of the Electrochemical Society</i> , 2009, 156, C187.	2.9	12
1003	Novel plasma immersion ion implantation and deposition hardware and technique based on high power pulsed magnetron discharge. <i>Review of Scientific Instruments</i> , 2011, 82, 033511.	1.3	12
1004	A Localized Surface Plasmon Resonance Biosensor Based on Integrated Controllable Au ₂ S/AuAgS-Coated Gold Nanorods Composite. <i>Plasmonics</i> , 2011, 6, 1-9.	3.4	12
1005	Photoluminescence induced by twinning interface in CdS nanocrystals. <i>Applied Physics Letters</i> , 2012, 100, 171911.	3.3	12
1006	Three-dimensional numerical investigation of electron transport with rotating spoke in a cylindrical anode layer Hall plasma accelerator. <i>Physics of Plasmas</i> , 2012, 19, .	1.9	12
1007	Antimicrobial effects of oxygen plasma modified medical grade Ti-6Al-4V alloy. <i>Vacuum</i> , 2013, 89, 271-279.	3.5	12
1008	Effects of chromium ion implantation voltage on the corrosion resistance and cytocompatibility of dual chromium and oxygen plasma-ion-implanted biodegradable magnesium. <i>Surface and Coatings Technology</i> , 2013, 235, 875-880.	4.8	12

#	ARTICLE	IF	CITATIONS
1009	Properties of carbon film deposited on stainless steel by close field unbalanced magnetron sputter ion plating. <i>Thin Solid Films</i> , 2013, 531, 320-327.	1.8	12
1010	Carbon-Doped TiO ₂ /Nanotube Array Platform for Visible Photocatalysis. <i>Nanoscience and Nanotechnology Letters</i> , 2013, 5, 1251-1257.	0.4	12
1011	Three-dimensional nanoscale Co ₃ O ₄ electrode on ordered Ni/Si microchannel plates for electrochemical supercapacitors. <i>Materials Letters</i> , 2014, 132, 405-408.	2.6	12
1012	Discharge current modes of high power impulse magnetron sputtering. <i>AIP Advances</i> , 2015, 5, .	1.3	12
1013	Magnetic, fluorescent, and thermo-responsive poly(MMA-NIPAM-Tb(AA) ₃ Phen)/Fe ₃ O ₄ multifunctional nanospheres prepared by emulsifier-free emulsion polymerization. <i>Journal of Biomaterials Applications</i> , 2015, 30, 201-211.	2.4	12
1014	Imaging and motion of cathode group spots during pulse-enhanced vacuum arc evaporation. <i>Vacuum</i> , 2017, 139, 37-43.	3.5	12
1015	Enhancement of Ferromagnetism in Nonmagnetic Metal Oxide Nanoparticles by Facet Engineering. <i>Small</i> , 2017, 13, 1602951.	10.0	12
1016	Electrocatalytic hydrogen evolution of palladium nanoparticles electrodeposited on nanographene coated macroporous electrically conductive network. <i>International Journal of Hydrogen Energy</i> , 2018, 43, 2171-2183.	7.1	12
1017	Dealkalization of Red Mud by Carbide Slag and Flue Gas. <i>Clean - Soil, Air, Water</i> , 2018, 46, 1700634.	1.1	12
1018	Discharge and Deposition Characteristics of High-Power Impulse Magnetron Sputtering Using Various Target Materials. <i>IEEE Transactions on Plasma Science</i> , 2019, 47, 193-198.	1.3	12
1019	A quasi-2D material CePO ₄ and the self-lubrication in micro-arc oxidized coatings on Al alloy. <i>Tribology International</i> , 2019, 138, 157-165.	5.9	12
1020	Multifunctional nitrogen-doped nanoporous carbons derived from metal-organic frameworks for efficient CO ₂ storage and high-performance lithium-ion batteries. <i>New Journal of Chemistry</i> , 2019, 43, 10405-10412.	2.8	12
1021	Hollow cathode effect modified time-dependent global model and high-power impulse magnetron sputtering discharge and transport in cylindrical cathode. <i>Journal of Applied Physics</i> , 2019, 125, .	2.5	12
1022	Effects of Ti, Ni, and Dual Ti/Ni Plasma Immersion Ion Implantation on the Corrosion and Wear Properties of Magnesium Alloy. <i>Coatings</i> , 2020, 10, 313.	2.6	12
1023	3D urchin-like NiCo ₂ O ₄ coated with carbon nanospheres prepared on flexible graphite felt for efficient bifunctional electrocatalytic water splitting. <i>Journal of Materials Science</i> , 2021, 56, 9961-9973.	3.7	12
1024	Graphene-mediated ferromagnetic coupling in the nickel nano-islands/graphene hybrid. <i>Science Advances</i> , 2021, 7, .	10.3	12
1025	In vitro and in vivo antibacterial performance of Zr & O PIII magnesium alloys with high concentration of oxygen vacancies. <i>Bioactive Materials</i> , 2021, 6, 3049-3061.	15.6	12
1026	SIMS and microelectronics. <i>Materials Chemistry and Physics</i> , 1994, 38, 203-223.	4.0	11

#	ARTICLE	IF	CITATIONS
1027	Combined impurity gettering effects of helium-induced cavities and oxygen precipitates created by plasma immersion ion implantation. <i>Thin Solid Films</i> , 1997, 300, 64-67.	1.8	11
1028	Dynamic nitrogen and titanium plasma ion implantation/deposition at different bias voltages. <i>Thin Solid Films</i> , 2001, 390, 139-144.	1.8	11
1029	Target temperature simulation during fast-pulsing plasma immersion ion implantation. <i>Journal Physics D: Applied Physics</i> , 2001, 34, 1639-1645.	2.8	11
1030	Plasma transport in magnetic duct filter. <i>Journal Physics D: Applied Physics</i> , 2002, 35, 3176-3180.	2.8	11
1031	Current control for magnetized plasma in direct-current plasma-immersion ion implantation. <i>Applied Physics Letters</i> , 2003, 82, 2014-2016.	3.3	11
1032	Anode double layer in magnetized radio frequency inductively coupled hydrogen plasma. <i>Journal of Applied Physics</i> , 2003, 94, 1390-1395.	2.5	11
1033	Implantation dynamics of plasma implantation into insulating strips. <i>Journal Physics D: Applied Physics</i> , 2004, 37, 50-54.	2.8	11
1034	Two-dimensional numerical simulation of non-uniform plasma immersion ion implantation. <i>Surface and Coatings Technology</i> , 2004, 186, 47-52.	4.8	11
1035	Linear ion source with magnetron hollow cathode discharge. <i>Review of Scientific Instruments</i> , 2005, 76, 113502.	1.3	11
1036	Local vibration at the surface of a Ge nanocrystal embedded in a silicon oxide matrix. <i>Journal of Applied Physics</i> , 2006, 99, 014301.	2.5	11
1037	The effect of N ⁺ -implanted aluminum substrate on the mechanical properties of TiN films. <i>Surface and Coatings Technology</i> , 2006, 200, 2672-2678.	4.8	11
1038	Optical emission from the aggregated state in poly [2-methoxy-5-(2-ethyl-hexyloxy)-p-phenylene vinylene]. <i>Journal of Vacuum Science and Technology A: Vacuum, Surfaces and Films</i> , 2006, 24, 202-205.	2.1	11
1039	Microstructure and visible-photoluminescence of titanium dioxide thin films fabricated by dual cathodic arc and nitrogen plasma deposition. <i>Surface and Coatings Technology</i> , 2007, 201, 4897-4900.	4.8	11
1040	Characteristics of end Hall ion source with magnetron hollow cathode discharge. <i>Nuclear Instruments & Methods in Physics Research B</i> , 2007, 257, 796-800.	1.4	11
1041	Investigation of plasma distribution in electron-focused electric field enhanced glow discharge plasma immersion ion implantation. <i>Journal of Applied Physics</i> , 2008, 104, 043303.	2.5	11
1042	Bonding strength of fluorinated and hydrogenated surfactant to bovine serum albumin. <i>Journal of Fluorine Chemistry</i> , 2009, 130, 870-877.	1.7	11
1043	Optical and vibrational properties of 2H-, 4H-, and 6H-AlN: First-principle calculations. <i>Journal of Applied Physics</i> , 2009, 105, 083511.	2.5	11
1044	Influence of GeSi interfacial layer on Ge-Ge optical phonon mode in SiO ₂ films embedded with Ge nanocrystals. <i>Applied Physics Letters</i> , 2009, 95, .	3.3	11

#	ARTICLE	IF	CITATIONS
1045	Hybrid plasma surface modification and ion implantation of biopolymers. <i>Surface and Coatings Technology</i> , 2010, 204, 2892-2897.	4.8	11
1046	Adsorption of polyvinyl alcohol from wastewater by sintered porous red mud. <i>Water Science and Technology</i> , 2012, 65, 2055-2060.	2.5	11
1047	Hydrothermal Growth Mechanism of Controllable Hydrophilic Titanate Nanostructures on Medical NiTi Shape Memory Alloy. <i>Journal of Materials Engineering and Performance</i> , 2012, 21, 2600-2606.	2.5	11
1048	3C-SiC nanocrystals/TiO ₂ nanotube heterostructures with enhanced photocatalytic performance. <i>Applied Physics Letters</i> , 2014, 104, .	3.3	11
1049	General Properties of Bulk SiC. <i>Engineering Materials and Processes</i> , 2014, , 7-114.	0.4	11
1050	Rare-earth-incorporated polymeric vector for enhanced gene delivery. <i>Biomaterials</i> , 2014, 35, 479-488.	11.4	11
1051	Selective growth of Pb islands on graphene/SiC buffer layers. <i>Journal of Applied Physics</i> , 2015, 117, 065304.	2.5	11
1052	Synthesis, microstructure, and electronic band structure properties of nanocrystalline neodymium-doped bismuth titanate ferroelectric films fabricated by the sol-gel method. <i>Materials Research Bulletin</i> , 2015, 61, 238-244.	5.2	11
1053	Communication between nitric oxide synthase and positively-charged surface and bone formation promotion. <i>Colloids and Surfaces B: Biointerfaces</i> , 2016, 148, 354-362.	5.0	11
1054	Three-dimensional flexible carbon electrode for symmetrical supercapacitors. <i>Materials Letters</i> , 2016, 185, 193-196.	2.6	11
1055	Simultaneous arsenate and alkali removal from alkaline wastewater by in-situ formation of Zn-Al layered double hydroxide. <i>Microporous and Mesoporous Materials</i> , 2016, 227, 137-143.	4.4	11
1056	Praseodymium-surface-modified magnesium alloy: Retardation of corrosion in artificial hand sweat. <i>Materials Letters</i> , 2016, 163, 85-89.	2.6	11
1057	Self-assembly and enhanced visible-light-driven photocatalytic activity of reduced graphene oxide-Bi ₂ WO ₆ photocatalysts. <i>Nanotechnology Reviews</i> , 2017, 6, 505-516.	5.8	11
1058	Barrier Reduction of Lithium Ion Tunneling through Graphene with Hybrid Defects: First-Principles Calculations. <i>Advanced Theory and Simulations</i> , 2018, 1, 1700009.	2.8	11
1059	Transfer matrix method for simulation of the fiber Bragg grating in polarization maintaining fiber. <i>Optics Communications</i> , 2019, 452, 185-188.	2.1	11
1060	EIS and noise study of zirconia-alumina- benzotriazole nano-composite coating applied on Al ₂₀₂₄ by the sol-gel method. <i>Journal of Alloys and Compounds</i> , 2020, 816, 152662.	5.5	11
1061	From Octahedron Crystals to 2D Silicon Nanosheets: Facet-Selective Cleavage and Biophotonic Applications. <i>Small</i> , 2020, 16, e2003594.	10.0	11
1062	Fabrication of Bimetallic Oxides (MCo ₂ O ₄ : M=Cu, Mn) on Ordered Microchannel Electro-Conductive Plate for High-Performance Hybrid Supercapacitors. <i>Sustainability</i> , 2021, 13, 9896.	3.2	11

#	ARTICLE	IF	CITATIONS
1063	High-sensitivity methane sensor composed of photonic quasi-crystal fiber based on surface plasmon resonance. <i>Journal of the Optical Society of America A: Optics and Image Science, and Vision</i> , 2021, 38, 1438.	1.5	11
1064	Topochemical Synthesis of Copper Phosphide Nanoribbons for Flexible Optoelectronic Memristors. <i>Advanced Functional Materials</i> , 0, , 2110900.	14.9	11
1065	Commercialization of Electric Vehicles in Hong Kong. <i>Energies</i> , 2022, 15, 942.	3.1	11
1066	Origin of superior pseudocapacitive mechanism of transition metal nitrides. <i>Journal of Energy Chemistry</i> , 2022, 69, 561-568.	12.9	11
1067	In-Situ and controllable construction of Mo ₂ N embedded Mo ₂ C nanobelts as robust electrocatalyst for superior pH-universal hydrogen evolution reaction. <i>Journal of Alloys and Compounds</i> , 2022, 918, 165611.	5.5	11
1068	Inner surface ion implantation using deflecting electric field. <i>Nuclear Instruments & Methods in Physics Research B</i> , 1998, 143, 306-310.	1.4	10
1069	Floating low-temperature radio-frequency plasma oxidation of polycrystalline silicon-germanium. <i>Applied Physics Letters</i> , 1998, 73, 360-362.	3.3	10
1070	Quasi-direct current plasma immersion ion implantation. <i>Applied Physics Letters</i> , 2001, 79, 3044-3046.	3.3	10
1071	Metallic contamination in hydrogen plasma immersion ion implantation of silicon. <i>Journal of Applied Physics</i> , 2001, 90, 3743-3749.	2.5	10
1072	Characteristics and polarization-enhanced model of wurtzite aluminum nitride thin films synthesized on Si(100) substrates by pulsed laser deposition. <i>Journal of Applied Physics</i> , 2003, 94, 1934-1940.	2.5	10
1073	Plasma immersion ion implantation of industrial gears. <i>Surface and Coatings Technology</i> , 2004, 186, 260-264.	4.8	10
1074	Strain relaxation mechanism in SiGe-on-insulator fabricated by Ge condensation. <i>Journal of Crystal Growth</i> , 2005, 281, 275-280.	1.5	10
1075	Relaxed SiGe-on-insulator fabricated by dry oxidation of sandwiched Si/SiGe/Si structure. <i>Materials Science and Engineering B: Solid-State Materials for Advanced Technology</i> , 2005, 124-125, 153-157.	3.5	10
1076	Enhanced electron field emission from oriented columnar AlN and mechanism. <i>Applied Physics Letters</i> , 2006, 88, 251103.	3.3	10
1077	Activation volume and incipient plastic deformation of uniaxially-loaded gold nanowires at very high strain rates. <i>Nanotechnology</i> , 2007, 18, 455702.	2.6	10
1078	Effects of pulsing frequency on shape recovery and investigation of nickel out-diffusion after mechanical bending of nitrogen plasma implanted NiTi shape memory alloys. <i>Surface and Coatings Technology</i> , 2007, 201, 8286-8290.	4.8	10
1079	Impact energy and retained dose uniformity in enhanced glow discharge plasma immersion ion implantation. <i>Applied Physics Letters</i> , 2009, 95, 061503.	3.3	10
1080	Intracellular chromosome breaks on silicon surface. <i>Biomaterials</i> , 2009, 30, 2661-2665.	11.4	10

#	ARTICLE	IF	CITATIONS
1081	Structure and gas-barrier properties of amorphous hydrogenated carbon films deposited on inner walls of cylindrical polyethylene terephthalate by plasma-enhanced chemical vapor deposition. <i>Applied Surface Science</i> , 2009, 255, 3983-3988.	6.1	10
1082	Surface Structures and Osteoblast Activity on Biomedical Polytetrafluoroethylene Treated by Long-Pulse, High-Frequency Oxygen Plasma Immersion Ion Implantation. <i>Advanced Engineering Materials</i> , 2010, 12, B163.	3.5	10
1083	Fermi-Level Pinning at Metal/High- κ Interface Influenced by Electron State Density of Metal Gate. <i>IEEE Electron Device Letters</i> , 2010, 31, 1101-1103.	3.9	10
1084	Photoluminescence from colloids containing aluminum hydroxide nanocrystals with uniform size. <i>Applied Physics Letters</i> , 2010, 97, 121901.	3.3	10
1085	Optimization of Optoelectronic Plasmonic Structures. <i>Plasmonics</i> , 2011, 6, 319-325.	3.4	10
1086	Wear Properties of Porous NiTi Orthopedic Shape Memory Alloy. <i>Journal of Materials Engineering and Performance</i> , 2012, 21, 2622-2627.	2.5	10
1087	Surface and interference co-enhanced Raman scattering from indium tin oxide nanocap arrays. <i>Applied Surface Science</i> , 2013, 280, 343-348.	6.1	10
1088	Direct imprint of nanostructures in metals using porous anodic alumina stamps. <i>Nanotechnology</i> , 2013, 24, 255303.	2.6	10
1089	Bio-tribological properties and cytocompatibility of Ti-Si-N coatings. <i>Vacuum</i> , 2015, 115, 50-57.	3.5	10
1090	Enhanced cytocompatibility of silver-containing biointerface by constructing nitrogen functionalities. <i>Applied Surface Science</i> , 2015, 349, 327-332.	6.1	10
1091	Supramolecular theranostic capsules for pH-sensitive magnetic resonance imaging and multi-responsive drug delivery. <i>Journal of Materials Chemistry B</i> , 2015, 3, 8499-8507.	5.8	10
1092	Graded metal carbon protein binding films prepared by hybrid cathodic arc Glow discharge plasma assisted chemical vapor deposition. <i>Surface and Coatings Technology</i> , 2015, 265, 222-234.	4.8	10
1093	Theoretical Assessment of Localized Surface Plasmon Resonance Properties of Au-Interlayer-Ag Multilayered Nanoshells. <i>Plasmonics</i> , 2016, 11, 1589-1595.	3.4	10
1094	Identification of Lattice Oxygen in Few-Layer Black Phosphorous Exfoliated in Ultrahigh Vacuum and Largely Improved Ambipolar Field-Effect Mobilities by Hydrogenation and Phosphorization. <i>ACS Applied Materials & Interfaces</i> , 2017, 9, 39804-39811.	8.0	10
1095	Improved interfacial adhesion between TiAlN/DLC multi-layered coatings by controlling the morphology via bias. <i>Surface and Coatings Technology</i> , 2017, 331, 15-20.	4.8	10
1096	Control of multidrug-resistant planktonic <i>Acinetobacter baumannii</i> : biocidal efficacy study by atmospheric-pressure air plasma. <i>Plasma Science and Technology</i> , 2018, 20, 065513.	1.5	10
1097	In situ formation of porous TiO ₂ nanotube array with MgTiO ₃ nanoparticles for enhanced photocatalytic activity. <i>Surface and Coatings Technology</i> , 2019, 365, 222-226.	4.8	10
1098	Nano-mechanical properties of zirconia-alumina-benzotriazole nano-composite coating deposited on Al ₂ O ₃ by the sol-gel method. <i>Thin Solid Films</i> , 2019, 689, 137417.	1.8	10

#	ARTICLE	IF	CITATIONS
1099	Rapid synthesis, microstructure, and thermoelectric properties of skutterudites. <i>Journal of Alloys and Compounds</i> , 2019, 806, 537-542.	5.5	10
1100	Al ₂ O ₃ coating for densification of SiC ceramics and sintering kinetics. <i>Surface and Coatings Technology</i> , 2019, 374, 603-609.	4.8	10
1101	Facile mass production of self-supported two-dimensional transition metal oxides for catalytic applications. <i>Chemical Communications</i> , 2019, 55, 11406-11409.	4.1	10
1102	A high-birefringent photonic quasi-crystal fiber with two elliptical air holes. <i>Optik</i> , 2019, 184, 10-15.	2.9	10
1103	Self-Regulated Super-Hydrophobic Cu/CuO Electrode Film Deposited by One-Step High-Power Sputtering. <i>Advanced Electronic Materials</i> , 2020, 6, 1900891.	5.1	10
1104	Zirconium-based nanostructured coating on the Mg-4Y-3RE alloy for corrosion retardation. <i>Chemical Physics Letters</i> , 2020, 756, 137824.	2.6	10
1105	Ambipolar Plasmon-Enhanced Photodetector Built on Germanium Nanodots Array/Graphene Hybrid. <i>Advanced Materials Interfaces</i> , 2020, 7, 2001122.	3.7	10
1106	Enhanced Osteogenic Differentiation of Human Mesenchymal Stem Cells on Amine-Functionalized Titanium Using Humidified Ammonia Supplied Nonthermal Atmospheric Pressure Plasma. <i>International Journal of Molecular Sciences</i> , 2020, 21, 6085.	4.1	10
1107	Dynamic changes of hydrophobic behavior during icing. <i>Surface and Coatings Technology</i> , 2020, 397, 126043.	4.8	10
1108	Cost-effective liquid-junction solar devices with plasma-implanted Ni/TiN/CNF hierarchically structured nanofibers. <i>Journal of Electroanalytical Chemistry</i> , 2021, 887, 115167.	3.8	10
1109	Cationic Alternating Polypeptide Fixed on Polyurethane at Multiple Sites for Excellent Antibacterial and Antifouling Properties. <i>Langmuir</i> , 2021, 37, 10657-10667.	3.5	10
1110	Porous manganese dioxide nanosheets on modified graphite felt for cathodes in high-capacity flexible Zinc-MnO ₂ batteries. <i>Vacuum</i> , 2021, 191, 110353.	3.5	10
1111	High-sensitivity SPR sensor based on the eightfold eccentric core PQF with locally coated indium tin oxide. <i>Applied Optics</i> , 2020, 59, 6484.	1.8	10
1112	Magnesium cationic cue enriched interfacial tissue microenvironment nurtures the osseointegration of gamma-irradiated allograft bone. <i>Bioactive Materials</i> , 2022, 10, 32-47.	15.6	10
1113	Porous Mo ₂ C-Mo ₃ N ₂ heterostructure/rGO with synergistic functions as polysulfides regulator for high-performance lithium sulfur batteries. <i>Chemical Engineering Journal</i> , 2022, 433, 133629.	12.7	10
1114	Fabrication and hydrogen permeation resistance of dense CrN coatings. <i>Surface and Coatings Technology</i> , 2022, 437, 128326.	4.8	10
1115	Sodium alginate coating on biodegradable high-purity magnesium with a hydroxide/silane transition layer for corrosion retardation. <i>Colloids and Surfaces A: Physicochemical and Engineering Aspects</i> , 2022, 642, 128647.	4.7	10
1116	HE _{1,1} mode-excited surface plasmon resonance for refractive index sensing by photonic crystal fibers with high sensitivity and long detection distance. <i>Optik</i> , 2022, 265, 169471.	2.9	10

#	ARTICLE	IF	CITATIONS
1117	Steady-state direct-current plasma immersion ion implantation using an electron cyclotron resonance plasma source. <i>Thin Solid Films</i> , 2001, 390, 145-148.	1.8	9
1118	Flexible system for multiple plasma immersion ion implantation-deposition processes. <i>Review of Scientific Instruments</i> , 2003, 74, 5137-5140.	1.3	9
1119	Synthesis of aluminum nitride films by plasma immersion ion implantation-deposition using hybrid gas-metal cathodic arc gun. <i>Review of Scientific Instruments</i> , 2004, 75, 719-724.	1.3	9
1120	Microstructure investigation of $BaxSr_{1-x}TiO_3$ thin film grown on porous silicon substrate. <i>Materials Science in Semiconductor Processing</i> , 2004, 7, 253-258.	4.0	9
1121	Growth and visible photoluminescence of highly oriented (100) zinc oxide film synthesized on silicon by plasma immersion ion implantation. <i>Materials Science in Semiconductor Processing</i> , 2004, 7, 459-462.	4.0	9
1122	Nucleation and growth of amorphous carbon film on tungsten-implanted stainless steel substrates. <i>Diamond and Related Materials</i> , 2006, 15, 1580-1584.	3.9	9
1123	Resonant electron transfer and luminescent enhancement in a toluene suspension of Si nanocrystals. <i>Journal of Chemical Physics</i> , 2006, 125, 054713.	3.0	9
1124	Mechanical properties, bioactivity and corrosion resistance of oxygen and sodium plasma treated nickel titanium shape memory alloy. <i>Surface and Coatings Technology</i> , 2007, 202, 1308-1312.	4.8	9
1125	Interface-induced pseudoelastic behavior in Bi-metal multilayer nanowires. <i>Applied Physics Letters</i> , 2008, 92, 123103.	3.3	9
1126	Magnetorotational instability in dissipative dusty plasmas. <i>Physics of Plasmas</i> , 2009, 16, 122107.	1.9	9
1127	Microstructure, mechanical properties, and blood compatibility of zirconium nitride deposited on nickel-titanium shape memory alloy. <i>Surface and Coatings Technology</i> , 2010, 204, 2841-2845.	4.8	9
1128	Origin of flat-band voltage sharp roll-off in metal gate/high-k/ultrathin- SiO_2/Si p-channel metal-oxide-semiconductor stacks. <i>Applied Physics Letters</i> , 2010, 97, 132908.	3.3	9
1129	Size-independent low-frequency Raman scattering in Ge-nanocrystal-embedded SiO_2 films. <i>Optics Letters</i> , 2010, 35, 1022.	3.3	9
1130	Osteoblast differentiation and disinfection induced by nitrogen plasma-treated surfaces. <i>Bio-Medical Materials and Engineering</i> , 2011, 21, 75-82.	0.6	9
1131	Interference effects on indium tin oxide enhanced Raman scattering. <i>Journal of Applied Physics</i> , 2012, 111, .	2.5	9
1132	Oxidation behavior of $Ti-B-N$ coatings deposited by reactive magnetron sputtering. <i>Vacuum</i> , 2012, 86, 1505-1512.	3.5	9
1133	Anode properties and morphology evolution of three-dimensional lithium-ion battery electrodes comprising Ni-coated Si microchannel plates. <i>Journal of Alloys and Compounds</i> , 2013, 563, 186-191.	5.5	9
1134	Nitrogen-doped multilayered nanographene derived from Ni_3C with efficient electron field emission. <i>Journal of Materials Chemistry C</i> , 2016, 4, 9251-9260.	5.5	9

#	ARTICLE	IF	CITATIONS
1135	Vertically-oriented few-layer graphene supported by silicon microchannel plates as a counter electrode in dye-sensitized solar cells. <i>Organic Electronics</i> , 2017, 45, 74-80.	2.6	9
1136	Freestanding Nanoengineered [001] Preferentially Oriented TiO ₂ NanosheetsâGraphene Planarly Aligned Nanohybrids with Enhanced LiâStorage Properties. <i>ChemElectroChem</i> , 2017, 4, 2819-2825.	3.4	9
1137	NiFeP nanoflakes composite with CoP on carbon cloth as flexible and durable electrocatalyst for efficient overall water splitting. <i>Nanotechnology</i> , 2019, 30, 485402.	2.6	9
1138	Enhanced oxygen-induced properties of bulk oxygenated amorphous carbon films deposited with an anode layer ion source. <i>Vacuum</i> , 2019, 169, 108915.	3.5	9
1139	N-doped TiO ₂ nanotube arrays with uniformly embedded Co _x P nanoparticles for high-efficiency hydrogen evolution reaction. <i>RSC Advances</i> , 2019, 9, 11676-11682.	3.6	9
1140	Activation of graphitic carbon nitride by surface discharge plasma treatment for enhanced photocatalysis. <i>Vacuum</i> , 2019, 159, 235-238.	3.5	9
1141	Insight into the overpotentials of electrocatalytic hydrogen evolution on black phosphorus decorated with metal clusters. <i>Electrochimica Acta</i> , 2020, 358, 136902.	5.2	9
1142	In-Situ Synthesis of Heterostructured Carbon-Coated Co/MnO Nanowire Arrays for High-Performance Anodes in Asymmetric Supercapacitors. <i>Molecules</i> , 2020, 25, 3218.	3.8	9
1143	Design of bimetal-coated photonic crystal fiber filter based on surface plasmon resonance. <i>Results in Optics</i> , 2020, 1, 100027.	2.0	9
1144	High-Potential surface on zirconia ceramics for bacteriostasis and biocompatibility. <i>Colloids and Surfaces B: Biointerfaces</i> , 2020, 193, 111074.	5.0	9
1145	Crystalline Red Phosphorus Nanoribbons: LargeâScale Synthesis and Electrochemical Nitrogen Fixation. <i>Angewandte Chemie</i> , 2020, 132, 14489-14493.	2.0	9
1146	Silicon monophosphides with controlled size and crystallinity for enhanced lithium anodic performance. <i>Nanoscale</i> , 2021, 13, 51-58.	5.6	9
1147	High efficient co-doping in plasma electrolytic oxidation to obtain long-term self-lubrication on Ti6Al4V. <i>Tribology International</i> , 2021, 160, 107018.	5.9	9
1148	MXene Coatings: Novel Hydrogen Permeation Barriers for Pipe Steels. <i>Nanomaterials</i> , 2021, 11, 2737.	4.1	9
1149	Ultra-sensitive hexagonal PCF-SPR sensor with a broad detection range. <i>Journal of Modern Optics</i> , 2020, 67, 1545-1554.	1.3	9
1150	Balancing the biocompatibility and bacterial resistance of polypyrrole by optimized silver incorporation. <i>Materials Science and Engineering C</i> , 2022, 134, 112701.	7.3	9
1151	Effects of acid treatment and plasma micromachining on the surface properties of carbon fibers. <i>Applied Surface Science</i> , 2022, 592, 153261.	6.1	9
1152	Subnanometer MoP clusters confined in mesoporous carbon (CMK-3) as superior electrocatalytic sulfur hosts for high-performance lithium-sulfur batteries. <i>Chemical Engineering Journal</i> , 2022, 446, 137050.	12.7	9

#	ARTICLE	IF	CITATIONS
1153	Construction of $\frac{1}{2}$ -MnO ₂ on Carbon Fibers Modified with Carbon Nanotubes for Ultrafast Flexible Supercapacitors in Ionic Liquid Electrolytes with Wide Voltage Windows. <i>Nanomaterials</i> , 2022, 12, 2020.	4.1	9
1154	Preparation of gallium nitride (GaN) and related compounds by plasma immersion ion implantation and rapid thermal annealing. <i>Surface and Coatings Technology</i> , 2001, 136, 142-145.	4.8	8
1155	Ignition and dynamics of high-voltage glow discharge plasma implantation. <i>Nuclear Instruments & Methods in Physics Research B</i> , 2006, 242, 275-278.	1.4	8
1156	Surface modification of W9Cr4V2Mo high-temperature bearing steel by rare earth ion implantation. <i>Surface and Coatings Technology</i> , 2006, 201, 4357-4360.	4.8	8
1157	Corrosion resistance and antithrombogenic behavior of La and Nd ion implanted stainless steels. <i>Journal of Vacuum Science and Technology A: Vacuum, Surfaces and Films</i> , 2006, 24, 1790-1794.	2.1	8
1158	Interfacial compound suppression and dielectric properties enhancement of F ⁺ N codoped ZrO ₂ thin films. <i>Applied Physics Letters</i> , 2007, 90, 082906.	3.3	8
1159	Effects of electron-focusing electric field upon enhanced glow discharge plasma ion implantation. <i>Surface and Coatings Technology</i> , 2007, 201, 6516-6519.	4.8	8
1160	Fabrication of graded TiN coatings on nitinol occluders and effects on in vivo nickel release. <i>Bio-Medical Materials and Engineering</i> , 2008, 18, 387-393.	0.6	8
1161	Theoretical investigation of sheath expansion and implant fluence uniformity in enhanced glow discharge plasma immersion ion implantation. <i>Applied Physics Letters</i> , 2008, 93, 091501.	3.3	8
1162	Uniformity enhancement of incident dose on concave surface in plasma immersion ion implantation assisted by beam-line ion source. <i>Surface and Coatings Technology</i> , 2011, 206, 2021-2024.	4.8	8
1163	Superelastic Porous NiTi with Adjustable Porosities Synthesized by Powder Metallurgical Method. <i>Journal of Materials Engineering and Performance</i> , 2012, 21, 2553-2558.	2.5	8
1164	Three-dimensional particle-in-cell simulation of discharge characteristics in cylindrical anode layer hall plasma accelerator. <i>Physics of Plasmas</i> , 2012, 19, .	1.9	8
1165	High temperature oxidation of Cr ⁺ N coatings prepared by high power pulsed magnetron sputtering & Plasma immersion ion implantation & deposition. <i>Vacuum</i> , 2014, 108, 66-70.	3.5	8
1166	Ordered-standing nickel hydroxide microchannel arrays: Synthesis and application for highly sensitive non-enzymatic glucose sensors. <i>Microelectronic Engineering</i> , 2015, 133, 11-15.	2.4	8
1167	Fabrication of nanocomposite electrode based on Bi ₄ Nd Ti ₃ O ₁₂ perovskite supported by silicon microchannel plates for high performance electrochemical capacitors. <i>Journal of Alloys and Compounds</i> , 2015, 619, 748-753.	5.5	8
1168	Drawing-fabrication of multifarious nanoplasmonic platform on PLLA paper for optimized SERS performance. <i>Journal of Raman Spectroscopy</i> , 2016, 47, 687-691.	2.5	8
1169	Cold atmospheric-pressure air plasma treatment of C6 glioma cells: effects of reactive oxygen species in the medium produced by the plasma on cell death. <i>Plasma Science and Technology</i> , 2017, 19, 025503.	1.5	8
1170	EFFECT OF INHIBITOR AGENTS ADDITION ON CORROSION RESISTANCE PERFORMANCE OF TITANIA SOL ⁺ GEL COATINGS APPLIED ON 304 STAINLESS STEEL. <i>Surface Review and Letters</i> , 2017, 24, 1750055.	1.1	8

#	ARTICLE	IF	CITATIONS
1171	Tunable magnetic coupling in Mn-doped monolayer MoS ₂ under lattice strain. Journal of Physics Condensed Matter, 2018, 30, 215801.	1.8	8
1172	Effects of silica and Ag on the electrochemical behavior of titania-based nanocomposite coatings deposited on 2024 aluminum alloy by the sol-gel method. Journal of Alloys and Compounds, 2018, 739, 92-100.	5.5	8
1173	Effects of ion flux density and energy on the composition of TiN _x thin films prepared by magnetron sputtering with an anode layer ion source. Surface and Coatings Technology, 2019, 365, 58-64.	4.8	8
1174	Inconel 718 treated with two-stage solution and aging processes: microstructure evolution and enhanced properties. Materials Research Express, 2019, 6, 075803.	1.6	8
1175	Mediated Drug Release from Nanovehicles by Black Phosphorus Quantum Dots for Efficient Therapy of Chronic Obstructive Pulmonary Disease. Angewandte Chemie, 2020, 132, 20749-20757.	2.0	8
1176	Carbon-encapsulated nanosphere-assembled MoS ₂ nanosheets with large interlayer distance for flexible lithium-ion batteries. Journal of Solid State Electrochemistry, 2021, 25, 1657-1665.	2.5	8
1177	Subsurface intercalation activating basal plane of black phosphorus for nitrogen reduction. Journal of Energy Chemistry, 2021, 60, 293-299.	12.9	8
1178	Hard and tough CrN coatings strengthened by high-density distorted coherent grain boundaries. Journal of Alloys and Compounds, 2022, 894, 162139.	5.5	8
1179	Black Phosphorus: An Effective Feedstock for the Synthesis of Phosphorus-Based Chemicals. CCS Chemistry, 2019, 1, 166-172.	7.8	8
1180	Highly Sensitive Dual-core Photonic Crystal Fiber Based on a Surface Plasmon Resonance Sensor with Gold Film. Plasmonics, 2022, 17, 543-550.	3.4	8
1181	Efficient coupling of MnO ₂ /TiN on carbon cloth positive electrode and Fe ₂ O ₃ /TiN on carbon cloth negative electrode for flexible ultra-fast hybrid supercapacitors. RSC Advances, 2021, 11, 35726-35736.	3.6	8
1182	Fan-shape Mn-doped CoO/C microspheres for high lithium-ion storage capacity. Journal of Alloys and Compounds, 2022, 903, 163980.	5.5	8
1183	Near-infrared photonic artificial synapses based on organic heterojunction phototransistors. Applied Physics Letters, 2022, 120, .	3.3	8
1184	Hydrogen-induced surface blistering of sample chuck materials in hydrogen plasma immersion ion implantation. Journal of Vacuum Science and Technology A: Vacuum, Surfaces and Films, 2001, 19, 2301-2306.	2.1	7
1185	Improvement of nitrogen retained dose using ammonia as a precursor in nitrogen plasma immersion ion implantation of silicon. Journal of Vacuum Science and Technology A: Vacuum, Surfaces and Films, 2005, 23, 1346-1349.	2.1	7
1186	Fabrication of rutile TiO ₂ thin films by low-temperature, bias-assisted cathodic arc deposition and their dielectric properties. Journal of Materials Research, 2006, 21, 844-850.	2.6	7
1187	Dependence of ion sheath collapse on secondary electron emission in plasma immersion ion implantation. Applied Physics Letters, 2007, 90, 131503.	3.3	7
1188	Structure and topographies of diamond-like carbon films produced on tungsten pre-implanted stainless steel substrate by plasma immersion ion implantation and deposition. Diamond and Related Materials, 2007, 16, 1490-1499.	3.9	7

#	ARTICLE	IF	CITATIONS
1189	Plasma processing of AISI 304 stainless steel using radio frequency hollow cathode discharge. <i>Surface and Coatings Technology</i> , 2007, 201, 8650-8653.	4.8	7
1190	Fabrication of highly (1000) oriented textured zinc oxide films by metal cathodic arc and oxygen dual plasma deposition and their optical properties. <i>Surface and Coatings Technology</i> , 2007, 201, 8348-8351.	4.8	7
1191	Luminescence properties of ultrasmall amorphous Si nanoparticles with sizes smaller than 2nm. <i>Journal of Crystal Growth</i> , 2007, 304, 476-480.	1.5	7
1192	Experimental investigation of discharge characteristics in enhanced glow discharge plasma immersion ion implantation. <i>Physics Letters, Section A: General, Atomic and Solid State Physics</i> , 2008, 372, 6183-6186.	2.1	7
1193	Investigation of plasma immersion ion implantation of nickel-titanium rod by multiple-grid particle-in-cell simulation. <i>Journal of Applied Physics</i> , 2008, 103, 053308.	2.5	7
1194	Comparison of oxidation resistance of copper treated by beam-line ion implantation and plasma immersion ion implantation. <i>Materials Chemistry and Physics</i> , 2009, 116, 519-522.	4.0	7
1195	Investigation of plasma potential and pulsed discharge characteristics in enhanced glow discharge plasma immersion ion implantation and deposition. <i>Nuclear Instruments & Methods in Physics Research B</i> , 2009, 267, 1696-1700.	1.4	7
1196	Theoretical investigation of plasma immersion ion implantation of cylindrical bore using hollow cathode plasma discharge. <i>Surface and Coatings Technology</i> , 2009, 203, 2727-2730.	4.8	7
1197	Hybrid particle-in-cell (PIC) ions and Boltzmann electron distribution simulation of direct-current plasma immersion ion implantation into three-dimensional objects. <i>Journal Physics D: Applied Physics</i> , 2010, 43, 095203.	2.8	7
1198	Analysis of hazardous organic residues from sodium hydrosulfite industry and utilization as raw materials in a novel solid lubricant production. <i>Journal of Hazardous Materials</i> , 2011, 198, 65-69.	12.4	7
1199	Surface carbon layer and visible-light photocatalytic activities of carbon-coated TiO ₂ nanotubes synthesized in organic electrolytes. <i>Applied Physics A: Materials Science and Processing</i> , 2011, 105, 703-707.	2.3	7
1200	Morphology-dependent low-frequency Raman scattering in ultrathin spherical, cubic, and cuboid SnO ₂ nanocrystals. <i>Applied Physics Letters</i> , 2011, 99, 251902.	3.3	7
1201	<i>In Vitro</i> Degradation and Biocompatibility of WE43, ZK60, and AZ91 Biodegradable Magnesium Alloys. <i>Advanced Materials Research</i> , 0, 287-290, 2008-2014.	0.3	7
1202	Nickel-Palladium Nanoparticles for Nonenzymatic Methanol Detection. <i>Analytical Letters</i> , 2012, 45, 1447-1453.	1.8	7
1203	Tunable fluorescence from patterned silver nano-island arrays for sensitive sub-cell imaging. <i>Journal Physics D: Applied Physics</i> , 2013, 46, 495302.	2.8	7
1204	Control of Surface Degradation on Biodegradable Magnesium Alloys by Plasma-Based Technology. <i>IEEE Transactions on Plasma Science</i> , 2013, 41, 725-730.	1.3	7
1205	Dopant-Induced Surface Magnetism in $\hat{1}^2$ -SiC Controlled by Dopant Depth. <i>Journal of Physical Chemistry C</i> , 2014, 118, 25429-25433.	3.1	7
1206	Impedance study of adsorption phenomena on three-dimensional nano-nickel electrode deposited on silicon microchannel plate. <i>Electrochimica Acta</i> , 2014, 132, 165-171.	5.2	7

#	ARTICLE	IF	CITATIONS
1207	Microporous N-doped carbon film produced by cold atmospheric plasma jet and its cell compatibility. <i>Vacuum</i> , 2014, 108, 27-34.	3.5	7
1208	Manipulation of strain state in silicon nanoribbons by top-down approach. <i>Applied Physics Letters</i> , 2015, 106, .	3.3	7
1209	Effects of Al and N plasma immersion ion implantation on surface microhardness, oxidation resistance and antibacterial characteristics of Cu. <i>Transactions of Nonferrous Metals Society of China</i> , 2015, 25, 1944-1949.	4.2	7
1210	Effects of plasma-generated nitrogen functionalities on the upregulation of osteogenesis of bone marrow-derived mesenchymal stem cells. <i>Journal of Materials Chemistry B</i> , 2015, 3, 1856-1863.	5.8	7
1211	Effects of N ₂ /O ₂ flow rate on the surface properties and biocompatibility of nano-structured TiO _x N _y thin films prepared by high vacuum magnetron sputtering. <i>Chinese Physics B</i> , 2015, 24, 075202.	1.4	7
1212	Paramagnetic, pH and temperature-sensitive polymeric particles for anticancer drug delivery and brain tumor magnetic resonance imaging. <i>RSC Advances</i> , 2015, 5, 87512-87520.	3.6	7
1213	Corrosion resistance of Ti-Si-N coatings in blood and cytocompatibility with vascular endothelial cells. <i>Vacuum</i> , 2016, 128, 45-55.	3.5	7
1214	Microstructure and mechanical properties of (AlTi) _x N _{1-x} films by magnetic-field-enhanced high power impulse magnetron sputtering. <i>Journal of Vacuum Science and Technology A: Vacuum, Surfaces and Films</i> , 2017, 35, .	2.1	7
1215	Three-dimensional CoMoO ₄ nanorods/nanographene composites on a Ni coated macroporous electrically conductive network with excellent electrochemical performance. <i>Materials Science and Engineering B: Solid-State Materials for Advanced Technology</i> , 2017, 226, 177-187.	3.5	7
1216	Reduction in Chemical Oxygen Demand of TNT Red Water Using Layered Double Hydroxide Prepared from Red Mud and Brucite. <i>Environmental Engineering Science</i> , 2017, 34, 721-730.	1.6	7
1217	Discharge and Plasma Characteristics of Pulse-Enhanced Vacuum Arc Evaporation (PEVAE) for Titanium Cathode. <i>IEEE Transactions on Plasma Science</i> , 2018, 46, 2619-2625.	1.3	7
1218	Tunable band offsets in the BP/P ₄ O ₁₀ van der Waals heterostructure: first-principles calculations. <i>Physical Chemistry Chemical Physics</i> , 2018, 20, 29931-29938.	2.8	7
1219	Corrosion Behavior and Mechanism of Carbon Ion-Implanted Magnesium Alloy. <i>Coatings</i> , 2020, 10, 734.	2.6	7
1220	Enhanced Hydrogen Evolution Activity of Phosphorus-Rich Tungsten Phosphide by Cobalt Doping: A Comprehensive Study of the Active Sites and Electronic Structure. <i>ChemElectroChem</i> , 2021, 8, 1658-1664.	3.4	7
1221	Three-dimensional nano/micro-structured porous MoP/CNTs microspheres as high-capacity anode for lithium-ion batteries. <i>Journal of Alloys and Compounds</i> , 2021, 872, 159608.	5.5	7
1222	Short-brush NiFeOxHy films and the Pt derivative as high-performance electrode materials for efficient electrocatalytic water splitting. <i>Applied Surface Science</i> , 2022, 574, 151636.	6.1	7
1223	A new technique to optimize the properties of photonic crystal fibers supporting transmission of multiple orbital angular momentum modes. <i>Journal of Optics (India)</i> , 2023, 52, 307-316.	1.7	7
1224	Determination of oxygen concentration in heavily doped silicon. <i>Journal of Vacuum Science & Technology an Official Journal of the American Vacuum Society B, Microelectronics Processing and Phenomena</i> , 1993, 11, 92.	1.6	6

#	ARTICLE	IF	CITATIONS
1225	Synthesis of SoI Materials Using Plasma Immersion Ion Implantation. Materials Research Society Symposia Proceedings, 1996, 438, 333.	0.1	6
1226	Effects of magnetic field on pulse wave forms in plasma immersion ion implantation in a radio-frequency, inductively coupled plasma. Journal of Applied Physics, 2002, 92, 2284-2289.	2.5	6
1227	Bias voltage influence on surface morphology of titanium nitride synthesized by dynamic nitrogen and titanium plasma immersion ion implantation and deposition. Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing, 2002, 337, 236-240.	5.6	6
1228	Fabrication of silicon carbide thin films by plasma immersion ion implantation with self-ignited glow discharge. Thin Solid Films, 2004, 447-448, 153-157.	1.8	6
1229	Catalytic growth of $\hat{\Gamma}$ -FeSi ₂ and silicon nanowires. Journal of Crystal Growth, 2005, 280, 286-291.	1.5	6
1230	Polycrystalline tubular nanostructures of germanium. Journal of Crystal Growth, 2005, 285, 59-65.	1.5	6
1231	A ground-based radio frequency inductively coupled plasma apparatus for atomic oxygen simulation in low Earth orbit. Review of Scientific Instruments, 2007, 78, 103301.	1.3	6
1232	Particle-in-cell numerical simulation of non-uniform plasma immersion ion implantation. Surface and Coatings Technology, 2007, 201, 5458-5462.	4.8	6
1233	Comparative studies on influence of acetylene to argon flow rate ratios on nano-scratch behavior of a-C:H films produced on steel substrates by plasma immersion ion implantation and deposition. Thin Solid Films, 2007, 516, 252-256.	1.8	6
1234	Chemical and Physical Properties of Copper and Nitrogen Plasma-Implanted Polyethylene. Plasma Processes and Polymers, 2007, 4, 158-164.	3.0	6
1235	Magnetothermal instability of plasmas in a horizontal magnetic field. Physics of Plasmas, 2009, 16, 102109.	1.9	6
1236	Damping of surface acoustic vibration induced by electrons trapped on SnO ₂ nanocrystal surface. Applied Physics Letters, 2009, 95, 211903.	3.3	6
1237	A Specially Designed PLC-Based High-Voltage Pulse Modulator for Plasma Immersion Ion Implantation. IEEE Transactions on Plasma Science, 2010, 38, 3083-3088.	1.3	6
1238	Improved hydrogen ionization rate in enhanced glow discharge plasma immersion ion implantation by enlarging the interaction path using an insulating tube. Review of Scientific Instruments, 2011, 82, 023503.	1.3	6
1239	Direct and diffuse reflection of electron waves at armchair edges of epitaxial graphene. RSC Advances, 2013, 3, 25735.	3.6	6
1240	Plasma-target surface interaction during non-equilibrium plasma irradiation at atmospheric pressure: Generation of dusty plasma. Laser and Particle Beams, 2014, 32, 69-78.	1.0	6
1241	Multifunctional gold coated rare-earth hydroxide fluoride nanotubes for simultaneous wastewater purification and quantitative pollutant determination. Materials Research Bulletin, 2014, 52, 122-127.	5.2	6
1242	3C-SiC/ZnS heterostructured nanospheres with high photocatalytic activity and enhancement mechanism. AIP Advances, 2015, 5, .	1.3	6

#	ARTICLE	IF	CITATIONS
1243	Electrochemical investigation of the corrosion properties of three-dimensional nickel electrodes on silicon microchannel plates. <i>Corrosion Science</i> , 2015, 100, 113-120.	6.6	6
1244	Electrochemical analysis of interface adsorption phenomena on three-dimensional nano-nickel electrode deposited on silicon microchannel plate. <i>Electrochimica Acta</i> , 2016, 194, 253-262.	5.2	6
1245	Utilization of recycled chemical residues from sodium hydrosulfite production in solid lubricant for drilling fluids. <i>Desalination and Water Treatment</i> , 2016, 57, 1804-1813.	1.0	6
1246	Ge@CNFs Anchored on 3D Graphene Foam for Binder-Free and High-Efficiency Anodes in Li-Ion Batteries. <i>ChemElectroChem</i> , 2017, 4, 1002-1006.	3.4	6
1247	Morphological control of gold nanorods via thermally driven bi-surfactant growth and application for detection of heavy metal ions. <i>Nanotechnology</i> , 2018, 29, 334001.	2.6	6
1248	Enhanced mechanical and electrochemical properties of TiN _x thin films prepared by magnetron sputtering with an anode layer ion source. <i>Surface and Coatings Technology</i> , 2019, 365, 253-260.	4.8	6
1249	Effect of Ti interlayer on corrosion behavior of nanostructured Ti/TiN multilayer coating deposited on TiAl ₆ V ₄ . <i>Materials and Corrosion - Werkstoffe Und Korrosion</i> , 2019, 70, 2113-2127.	1.5	6
1250	Investigation of the microstructure on the nanoporous carbon based capacitive performance. <i>Microporous and Mesoporous Materials</i> , 2021, 310, 110629.	4.4	6
1251	Enhanced corrosion resistance and reduced cytotoxicity of the AZ91 Mg alloy by plasma nitriding and a hierarchical structure composed of ciprofloxacin-loaded polymeric multilayers and calcium phosphate coating. <i>Journal of Biomedical Materials Research - Part A</i> , 2021, 109, 2657-2672.	4.0	6
1252	Enhanced Bioactivity of Biomedical NiTi Through Surface Plasma Polymerization. <i>Nanoscience and Nanotechnology Letters</i> , 2015, 7, 220-225.	0.4	6
1253	Surface-Enhanced Raman Scattering Sensor Based on Silver Dendritic Nanostructures. <i>Sensor Letters</i> , 2010, 8, 395-398.	0.4	6
1254	Stable static zinc-iodine redox battery constructed with graphene quantum dots coated graphite felt. <i>Journal of Power Sources</i> , 2022, 520, 230861.	7.8	6
1255	Enhancement of implantation efficiency by grid biasing in radio-frequency inductively coupled plasma direct-current plasma immersion ion implantation. <i>Journal of Vacuum Science & Technology an Official Journal of the American Vacuum Society B, Microelectronics Processing and Phenomena</i> , 2002, 20, 1452.	1.6	5
1256	Oxygen profile engineering in silicon by germanium addition and high-temperature annealing. <i>Applied Physics Letters</i> , 2003, 83, 305-307.	3.3	5
1257	Low-temperature photoluminescence of hydrogen ion and plasma implanted silicon and porous silicon. <i>Journal of Applied Physics</i> , 2004, 96, 248-251.	2.5	5
1258	Plasma hydrogenation of strain-relaxed SiGe _x Si heterostructure for layer transfer. <i>Applied Physics Letters</i> , 2004, 85, 4944-4946.	3.3	5
1259	Self-organized synthesis of micrometer scale silver disks by electroless metal deposition on Si-incorporated diamond-like carbon films. <i>Journal of Crystal Growth</i> , 2005, 284, 470-476.	1.5	5
1260	Self-assembled growth and blue emission of a SiO _x -capped (x= 0.5-0.8) silicon nanowire array. <i>Nanotechnology</i> , 2005, 16, 2222-2226.	2.6	5

#	ARTICLE	IF	CITATIONS
1261	Comparative study of mechanical properties of a-C:H films produced on tungsten pre-implanted stainless steel substrate by plasma immersion ion implantation and deposition. <i>Diamond and Related Materials</i> , 2007, 16, 1304-1311.	3.9	5
1262	Evolution mechanism of nanocrystalline tungsten-carbon and effects on tungsten implanted amorphous hydrogenated carbon. <i>Journal of Applied Physics</i> , 2007, 102, 113517.	2.5	5
1263	Effects of pulse parameters on macro-particle production in pulsed cathodic vacuum arc deposition. <i>Surface and Coatings Technology</i> , 2007, 201, 6542-6544.	4.8	5
1264	Mechanism of apatite formation on silicon suboxide film prepared by pulsed metal vacuum arc deposition. <i>Materials Chemistry and Physics</i> , 2008, 109, 342-346.	4.0	5
1265	Mechanical properties of tungsten doped amorphous hydrogenated carbon films prepared by tungsten plasma immersion ion implantation. <i>Surface and Coatings Technology</i> , 2009, 203, 2612-2616.	4.8	5
1266	Surface-polarization-induced formation of amorphous foliaceous SiO ₂ helical nanobelts. <i>Applied Physics Letters</i> , 2009, 94, 253110.	3.3	5
1267	Thermal convective and rotational instability in dissipative magnetohydrodynamics. <i>Physics of Plasmas</i> , 2010, 17, 052102.	1.9	5
1268	Ion focusing in enhanced glow discharge plasma immersion ion implantation of hydrogen and nitrogen into silicon. <i>Journal of Applied Physics</i> , 2010, 108, 033304.	2.5	5
1269	Recent Progress in Patterned Silicon Nanowire Arrays: Fabrication, Properties and Applications. <i>Recent Patents on Nanotechnology</i> , 2011, 5, 62-70.	1.3	5
1270	High voltage pulser with a fast fall-time for plasma immersion ion implantation. <i>Review of Scientific Instruments</i> , 2011, 82, 045102.	1.3	5
1271	Modulation of surface-enhanced Raman spectra by depth selective excitation of embedded indium tin oxide nanoisland arrays. <i>Journal Physics D: Applied Physics</i> , 2011, 44, 215305.	2.8	5
1272	Oxidation resistance of quintuple Ti-Al-Si-C-N coatings and associated mechanism. <i>Journal of Vacuum Science and Technology A: Vacuum, Surfaces and Films</i> , 2012, 30, .	2.1	5
1273	Surface Treatment of Polyethylene Terephthalate Using Plasma Ion Implantation Based on Direct Coupling of RF and High-Voltage Pulse. <i>IEEE Transactions on Plasma Science</i> , 2012, 40, 487-491.	1.3	5
1274	Plasma immersion ion implantation into cylindrical bore using internal inductively-coupled radio-frequency discharge. <i>Surface and Coatings Technology</i> , 2012, 206, 5042-5045.	4.8	5
1275	Direct formation of amine functionality on DLC films and surface cyto-compatibility. <i>Diamond and Related Materials</i> , 2013, 38, 28-31.	3.9	5
1276	Graded nanostructured interfacial layers fabricated by high power pulsed magnetron sputtering " plasma immersion ion implantation and deposition (HPPMS"PIII&D). <i>Surface and Coatings Technology</i> , 2013, 236, 320-325.	4.8	5
1277	Effects of loading mode and orientation on deformation mechanism of graphene nano-ribbons. <i>Applied Physics Letters</i> , 2013, 103, 191906.	3.3	5
1278	Plasmon-Matter Interactions in Optoelectronic Metamaterials with Negative Refractive Index. <i>Plasmonics</i> , 2013, 8, 1309-1315.	3.4	5

#	ARTICLE	IF	CITATIONS
1279	Enhanced fluorescence from dye molecules by Au nanoparticles on asymmetric double-stranded DNA and mechanism. <i>Applied Physics Letters</i> , 2014, 104, .	3.3	5
1280	Vascular endothelial cell compatibility of superhard ternary Ti ϵ -Si ϵ -N coatings with different Si contents. <i>Vacuum</i> , 2014, 106, 53-63.	3.5	5
1281	All-silicon solid films with highly efficient and tunable full-color photoluminescence. <i>Scripta Materialia</i> , 2014, 76, 17-20.	5.2	5
1282	Investigation of organic matter adsorption from TNT red water by modified bamboo charcoal. <i>Desalination and Water Treatment</i> , 2015, 56, 684-694.	1.0	5
1283	Electrochemical characteristics of nano-graphene on a macroporous electrically conductive network prepared by hydrothermal carbonization. <i>Electrochimica Acta</i> , 2016, 215, 515-524.	5.2	5
1284	Dynamic transition in the discharge current between gas-dominant discharge and self-sputtering in high-power impulse magnetron sputtering. <i>Surface and Coatings Technology</i> , 2016, 306, 319-322.	4.8	5
1285	Self-assembled bundled TiO ₂ nanowire arrays encapsulated with indium tin oxide for broadband absorption in plasmonic photocatalysis. <i>Physical Chemistry Chemical Physics</i> , 2017, 19, 27059-27064.	2.8	5
1286	Manganese molybdate nanoflakes on silicon microchannel plates as novel nano energetic material. <i>Royal Society Open Science</i> , 2017, 4, 171229.	2.4	5
1287	Improving of tribology properties of TiAl ₆ V ₄ with nanostructured Ti/TiN-multilayered coating deposited by high-vacuum magnetron sputtering. <i>Applied Physics A: Materials Science and Processing</i> , 2018, 124, 1.	2.3	5
1288	Pd/ZnO/Ni photoelectrochemical ethanol sensor. <i>Journal of Photochemistry and Photobiology A: Chemistry</i> , 2020, 401, 112785.	3.9	5
1289	Intercalator-assisted plasma-liquid technology: an efficient exfoliation method for few-layer two-dimensional materials. <i>Science China Materials</i> , 2020, 63, 2079-2085.	6.3	5
1290	Complete ablation of resistant tumors with photosensitive black phosphorus quantum dots-based lipid nanocapsules. <i>Chemical Engineering Journal</i> , 2021, 421, 127879.	12.7	5
1291	Field emission from geometrically modulated tungsten-nickel sulfide / graphitic carbon nanobelts on Si microchannel plates. <i>Ceramics International</i> , 2021, 47, 4034-4042.	4.8	5
1292	Effects of hydrogen etching on MnO ₂ electrode materials for supercapacitors. <i>Surface and Coatings Technology</i> , 2021, 410, 126951.	4.8	5
1293	Effects of the tantalum intermediate layer on the nanomechanical properties and biocompatibility of nanostructured tantalum/tantalum nitride bilayer coating deposited by magnetron sputtering on the nickel titanium alloy. <i>Applied Nanoscience (Switzerland)</i> , 2021, 11, 1867-1880.	3.1	5
1294	Degradation of tetracycline in water by gas-liquid plasma in conjunction with rGO-TiO ₂ nanocomposite. <i>Plasma Science and Technology</i> , 2021, 23, 115503.	1.5	5
1295	Enhanced discharge of high power pulsed magnetron sputtering coupling with high voltage. <i>Wuli Xuebao/Acta Physica Sinica</i> , 2014, 63, 185207.	0.5	5
1296	Cylindric high power impulse magnetron sputtering source and its discharge characteristics. <i>Wuli Xuebao/Acta Physica Sinica</i> , 2016, 65, 185202.	0.5	5

#	ARTICLE	IF	CITATIONS
1297	A novel photonic quasi-crystal fiber for transmission of orbital angular momentum modes. <i>Optik</i> , 2022, 251, 168446.	2.9	5
1298	Silicon-on-Insulator Structure Fabricated by Electron Beam Evaporation of Si on Porous Si and Epitaxial Layer Transfer. <i>Chinese Physics Letters</i> , 2001, 18, 662-664.	3.3	4
1299	Steady-state direct-current plasma immersion ion implantation using a multipolar magnetic field electron cyclotron resonance plasma source. <i>Journal of Vacuum Science and Technology A: Vacuum, Surfaces and Films</i> , 2001, 19, 2889.	2.1	4
1300	Interactions between plasma and ionization gauge in plasma immersion ion implantation. <i>Surface and Coatings Technology</i> , 2003, 169-170, 36-40.	4.8	4
1301	Room-temperature electroluminescence from H-plasma-implanted silicon. <i>Semiconductor Science and Technology</i> , 2003, 18, L55-L58.	2.0	4
1302	Optical emission from silicon-based SiO ₂ islands fabricated by anodic alumina templates. <i>Journal of Applied Physics</i> , 2004, 96, 1443-1446.	2.5	4
1303	Mo-containing diamond-like carbon films with blue emission. <i>Journal of Crystal Growth</i> , 2005, 281, 538-542.	1.5	4
1304	Plasma-nitrided high-k polycrystalline nano-array induced by electron irradiation. <i>Nanotechnology</i> , 2006, 17, 4379-4383.	2.6	4
1305	Plasma distribution in the slender bore excited by coaxial rf electrode. <i>Surface and Coatings Technology</i> , 2007, 201, 6651-6654.	4.8	4
1306	Oxygen and sodium plasma-implanted nickel-titanium shape memory alloy: A novel method to promote hydroxyapatite formation and suppress nickel leaching. <i>Nuclear Instruments & Methods in Physics Research B</i> , 2007, 257, 687-691.	1.4	4
1307	BIOMIMETIC DEPOSITION OF APATITE ON SURFACE CHEMICALLY MODIFIED POROUS NiTi SHAPEMEMORY ALLOY. <i>Surface Review and Letters</i> , 2008, 15, 97-104.	1.1	4
1308	Plasma sheath physics and dose uniformity in enhanced glow discharge plasma immersion ion implantation and deposition. <i>Journal of Applied Physics</i> , 2009, 106, 013313.	2.5	4
1309	Trace detection of multiwalled carbon nanotubes using Raman-enhancing silver nanocap arrays. <i>Journal Physics D: Applied Physics</i> , 2010, 43, 455302.	2.8	4
1310	Improved tribological properties of TiC with porous nanostructured TiO ₂ intermediate layer. <i>Materials Chemistry and Physics</i> , 2011, 131, 420-424.	4.0	4
1311	Si optical phonon behavior in localized Si clusters of Si _x Ge _{1-x} alloy nanocrystals. <i>Applied Physics A: Materials Science and Processing</i> , 2011, 103, 361-365.	2.3	4
1312	Diffusion behavior of dual capping layers in TiN/LaN/AlN/HfSiO _x /Si stack. <i>Applied Physics Letters</i> , 2011, 99, 131914.	3.3	4
1313	Coupling of Kelvin-Helmholtz instability and buoyancy instability in a thermally laminar plasma. <i>Physics of Plasmas</i> , 2011, 18, .	1.9	4
1314	Tribological behavior of Ti-Al-Si-C-N hard coatings deposited by hybrid arc-enhanced magnetron sputtering. <i>Journal of Vacuum Science and Technology A: Vacuum, Surfaces and Films</i> , 2012, 30, 021501.	2.1	4

#	ARTICLE	IF	CITATIONS
1315	Magnetorotational instability in plasmas with mobile dust grains. <i>Physics of Plasmas</i> , 2013, 20, 032102.	1.9	4
1316	Photoluminescence properties of ordered Bi ₄ xNd _x Ti ₃ O ₁₂ matrix supported by 3-dimensional silicon microchannel plate. <i>Journal Physics D: Applied Physics</i> , 2013, 46, 315105.	2.8	4
1317	Lattice shearing in nano-grained graphene sheets: a molecular dynamics simulation. <i>RSC Advances</i> , 2015, 5, 105194-105199.	3.6	4
1318	Strong phonon-plasmon coupling at the interface of 3C-SiC/metal oxide nanoparticles. <i>Acta Materialia</i> , 2015, 83, 113-119.	7.9	4
1319	<i>In situ</i> plasma fabrication of ceramic-like structure on polymeric implant with enhanced surface hardness, cytocompatibility and antibacterial capability. <i>Journal of Biomedical Materials Research - Part A</i> , 2016, 104, 1102-1112.	4.0	4
1320	Electrochemical degradation and extraction capability of magnesium wastes in sewage treatment. <i>Materials and Design</i> , 2016, 111, 537-540.	7.0	4
1321	Effects of pulse voltage and deposition time on the adhesion strength of graded metal/carbon films deposited on bendable stainless steel foils by hybrid cathodic arc glow discharge plasma assisted chemical vapor deposition. <i>Applied Surface Science</i> , 2016, 366, 535-544.	6.1	4
1322	Tin repellence on wave-soldering stainless steel holders coated with Ti/TiC/DLC. <i>Surface and Coatings Technology</i> , 2017, 320, 614-618.	4.8	4
1323	In Silico Screening and Design of Coating Materials for PEMFC Bipolar Plates. <i>Coatings</i> , 2018, 8, 386.	2.6	4
1324	High-performance anode materials based on 3D orderly and vertically macroporous graphene-Si framework for Li-ion batteries. <i>Ionics</i> , 2019, 25, 467-473.	2.4	4
1325	Unique Role of Arginine in Positively Charged Surface for Promotion of Antibacterial and Osteogenetic Capabilities. <i>Advanced Materials Interfaces</i> , 2019, 6, 1901414.	3.7	4
1326	Dual-band unidirectional forward scattering of Au-Si sliced nanorod in the visible region. <i>Applied Physics A: Materials Science and Processing</i> , 2019, 125, 1.	2.3	4
1327	Controlled fiberization of dipeptide in merging phases leads to collagen-level strength and opto/electric mechanofunctionalities. <i>Biomaterials</i> , 2019, 208, 1-7.	11.4	4
1328	Wrinkled Surface-Induced Memristive Behavior of MoS ₂ Wrapped GaN Nanowires. <i>Advanced Electronic Materials</i> , 2020, 6, 2000571.	5.1	4
1329	Gate-tunable two-dimensional superconductivity revealed in flexible wafer-scale hybrid structures. <i>Journal of Materials Chemistry C</i> , 2020, 8, 14605-14610.	5.5	4
1330	A zipped-up tunable metal coordinated cationic polymer for nanomedicine. <i>Journal of Materials Chemistry B</i> , 2020, 8, 1350-1358.	5.8	4
1331	Effects of the target-to-substrate distance on the microstructure and properties of TiN coatings fabricated by pulse-enhanced vacuum arc evaporation. <i>Journal of Adhesion Science and Technology</i> , 2021, 35, 1125-1137.	2.6	4
1332	A cationic alternating copolymer composed of ornithine and glycine with an ordered sequence for enhanced bacterial activity. <i>Polymer Engineering and Science</i> , 2021, 61, 1405-1414.	3.1	4

#	ARTICLE	IF	CITATIONS
1333	Investigation of a high-sensitivity surface plasmon resonance sensor based on the eccentric core quasi D-shape photonic quasi-crystal fiber. <i>Journal of Modern Optics</i> , 2021, 68, 555-563.	1.3	4
1334	GaO _x @GaN Nanowire Arrays on Flexible Graphite Paper with Tunable Persistent Photoconductivity. <i>ACS Applied Materials & Interfaces</i> , 2021, 13, 41916-41925.	8.0	4
1335	Single-polarization photonic crystal fiber filter composed of elliptical gold films. <i>Optical Engineering</i> , 2020, 59, 1.	1.0	4
1336	Formation of Buried Porous Silicon Structure by Hydrogen Plasma Immersion Ion Implantation. <i>Materials Research Society Symposia Proceedings</i> , 1996, 452, 427.	0.1	3
1337	Automatically reigniting dc vacuum arc plasma source. <i>Review of Scientific Instruments</i> , 2002, 73, 2971-2973.	1.3	3
1338	Formation of silicon on plasma synthesized SiO _x N _y and reaction mechanism. <i>Applied Surface Science</i> , 2005, 243, 89-95.	6.1	3
1339	Anti-Corrosion Properties of Nitrogen and Oxygen Plasma-Implanted Nickel-Titanium Shape Memory Alloy. <i>Solid State Phenomena</i> , 2005, 107, 111-114.	0.3	3
1340	Cr/CrN Compound Films Prepared by Ion Beam Assisted Deposition for Improving the Performance of Bearing Steel. <i>Plasma Science and Technology</i> , 2005, 7, 2959-2961.	1.5	3
1341	Experimental and numerical evaluations of adhesion strength and stress in TiN films deposited on ti-implanted aluminum. <i>Journal of Vacuum Science and Technology A: Vacuum, Surfaces and Films</i> , 2006, 24, 212-217.	2.1	3
1342	Energy anisotropy of bimetal core-shell nanorods and its effects on morphology. <i>Nanotechnology</i> , 2007, 18, 445101.	2.6	3
1343	Mechanism of enhanced adhesion between hydrogenated amorphous carbon films and tungsten preimplanted steel substrates. <i>Journal of Applied Physics</i> , 2007, 101, 053520.	2.5	3
1344	Quantum-confined and tunable optical emission from sub-10-nm silicon oxide nanowires in aqueous suspension. <i>Applied Physics Letters</i> , 2007, 91, 193111.	3.3	3
1345	Effective passivation on Si nanocrystal surface by peroxide. <i>Journal of Crystal Growth</i> , 2007, 304, 86-89.	1.5	3
1346	Origin of the 745 nm photoluminescence from small diameter silicon nanowires. <i>Solid State Communications</i> , 2008, 148, 182-185.	1.9	3
1347	Ion trajectories in plasma ion implantation of slender cylindrical bores using a small inner end source. <i>Applied Physics Letters</i> , 2008, 93, 191501.	3.3	3
1348	Asymmetrical reorientation of bimetallic core-shell nanowires. <i>Nanotechnology</i> , 2009, 20, 045601.	2.6	3
1349	Three-Dimensional Quasi-Direct-Current Plasma Immersion Ion Implantation Into Biomedical Nickel-Titanium Shape Memory Alloy Rod. <i>IEEE Transactions on Plasma Science</i> , 2009, 37, 2245-2249.	1.3	3
1350	Optical properties of plastic scintillators coated with copper, aluminum and silver by magnetron sputtering. <i>Thin Solid Films</i> , 2009, 517, 4443-4447.	1.8	3

#	ARTICLE	IF	CITATIONS
1351	Surface Properties of AZ31B Magnesium Alloy by Oxygen Plasma Immersion Ion Implantation. <i>Plasma Science and Technology</i> , 2009, 11, 33-37.	1.5	3
1352	Enhanced retained dose uniformity in NiTi spinal correction rod treated by three-dimensional mesh-assisted nitrogen plasma immersion ion implantation. <i>Journal of Vacuum Science and Technology A: Vacuum, Surfaces and Films</i> , 2010, 28, 407-410.	2.1	3
1353	Plasma Immersion Ion Implantation Into Inner Surface of Cylindrical Bore Using Moving Auxiliary Electrode. <i>IEEE Transactions on Plasma Science</i> , 2011, 39, 3120-3124.	1.3	3
1354	Anisotropic etching of microscale FeSi_2 particles: Formation, mechanism, and quantum confinement of FeSi_2 nanowhiskers. <i>RSC Advances</i> , 2012, 2, 3254.	3.6	3
1355	Novel functional materials with active adsorption and antimicrobial properties. <i>Materials Letters</i> , 2012, 89, 19-21.	2.6	3
1356	Facile preparation of cationic P (St-BA-METAC) copolymer nanoparticles and the investigation of their interaction with bovine serum albumin. <i>Journal of Applied Polymer Science</i> , 2012, 125, 864-869.	2.6	3
1357	Effects of surface properties of red mud on interactions with <i>Escherichia coli</i> . <i>Journal of Materials Research</i> , 2013, 28, 2332-2338.	2.6	3
1358	CdS:Mn ²⁺ Polysulfido Complex Nanoclusters with H_2O_2 -Dependent and Site-Specific Color Changes. <i>Journal of Physical Chemistry C</i> , 2014, 118, 11085-11092.	3.1	3
1359	Surface changes in Fe-Cr-Ni alloy bombarded by relativistic pulsed electron beam and associated mechanism. <i>Vacuum</i> , 2014, 101, 136-141.	3.5	3
1360	Investigation of Corrosion Behavior of Ti/TiN Multilayers on Al7075 Deposited by High-Vacuum Magnetron Sputtering in 3.5% NaCl Solution. <i>Journal of Materials Engineering and Performance</i> , 2018, 27, 2216-2225.	2.5	3
1361	Black Phosphorus: Lanthanide-Coordinated Black Phosphorus (Small 29/2018). <i>Small</i> , 2018, 14, 1870134.	10.0	3
1362	Asymmetrical photonic crystal fiber based on the surface plasmon resonance sensor and analysis by the lower-birefringence peak method. <i>Optik</i> , 2019, 189, 121-129.	2.9	3
1363	Optical diode composed of subwavelength slit-groove arrays with ultrahigh transmission contrast based on surface plasmon polariton. <i>Optik</i> , 2019, 186, 266-274.	2.9	3
1364	Self-supported electrodes composed of silicon nanocrystals in 3D hierarchical carbon network for reversible sodium storage. <i>Journal of Materials Science: Materials in Electronics</i> , 2019, 30, 2732-2742.	2.2	3
1365	Nitrogen-doped carbon coated TiC nanofiber arrays deposited on Ti-6Al-4V for selective and sensitive electrochemical detection of dopamine. <i>Surface and Coatings Technology</i> , 2020, 402, 126266.	4.8	3
1366	Forward and Backward Unidirectional Scattering by the Core-Shell Nanocube Dimer with Balanced Gain and Loss. <i>Nanomaterials</i> , 2020, 10, 1440.	4.1	3
1367	Nano-second temporal particle behavior in high-power impulse magnetron sputtering discharge in a cylindrical cathode. <i>Journal of Applied Physics</i> , 2020, 127, 023301.	2.5	3
1368	Multi-functional gallium arsenide photonic crystal polarization splitter with a gold core. <i>Modern Physics Letters B</i> , 2021, 35, 2150229.	1.9	3

#	ARTICLE	IF	CITATIONS
1369	A photonic quasi-crystal fiber composed of circular air holes with high birefringence and low confinement loss. <i>Optik</i> , 2021, 231, 166497.	2.9	3
1370	Characteristics of continuous high power magnetron sputtering (C-HPMS) in reactive O ₂ /Ar atmospheres. <i>Journal of Applied Physics</i> , 2021, 129, .	2.5	3
1371	Engineering CsPbBr ₃ quantum dots with efficient luminescence and stability by damage-free encapsulation with a-SiC _x H. <i>Journal of Luminescence</i> , 2021, 236, 118086.	3.1	3
1372	Facile synthesis of ZnO doped with Au nanoparticles for sensitive and reliable photoelectrochemical detection of glucose. <i>Ionics</i> , 2021, 27, 4449-4459.	2.4	3
1373	Photonic spin Hall effect: a new window in D-shaped fiber by weak measurements. <i>Optics Express</i> , 2019, 27, 14064.	3.4	3
1374	Dual-band directional scattering with all-dielectric trimer in the near-infrared region. <i>Applied Optics</i> , 2019, 58, 5082.	1.8	3
1375	Fabrication and cutting performance of CrAlN/CrAl multilayer coatings deposited by continuous high-power magnetron sputtering. <i>Ceramics International</i> , 2022, 48, 14528-14536.	4.8	3
1376	Degradation of gemfibrozil in aqueous solutions by gasâ€“liquid dielectric barrier discharge plasma combined with CNTs/Fe ₂ O ₃ . <i>Plasma Processes and Polymers</i> , 2022, 19, .	3.0	3
1377	Detection of kerosene adulteration in automobile fuel by a low-loss surface plasmon resonance (SPR) chemical sensor. <i>Analytical Methods</i> , 2022, 14, 2153-2160.	2.7	3
1378	Numerical Analysis of Multifunctional Biosensor with Dual-Channel Photonic Crystal Fibers Based on Localized Surface Plasmon Resonance. <i>Coatings</i> , 2022, 12, 742.	2.6	3
1379	A photonic quasi-crystal fibre supporting stable transmission of 150 OAM modes with high mode quality and flat dispersion. <i>Journal of Modern Optics</i> , 2022, 69, 887-896.	1.3	3
1380	SIMS studies on anomalous behavior of phosphorus and other implants in silicon. <i>Radiation Effects</i> , 1982, 61, 201-205.	0.4	2
1381	Formation of silicon on plasma synthesized aluminum nitride structure by ion cutting. <i>Journal of Vacuum Science & Technology an Official Journal of the American Vacuum Society B, Microelectronics Processing and Phenomena</i> , 2004, 22, 2748.	1.6	2
1382	Interfacial characteristics of fully depleted SiGe-on-insulator (SGOI) substrate fabricated by modified Ge condensation. <i>Semiconductor Science and Technology</i> , 2005, 20, L31-L35.	2.0	2
1383	Formation of silicon-on-aluminum nitride using ion-cut and theoretical investigation of self-heating effects. <i>Materials Letters</i> , 2005, 59, 510-513.	2.6	2
1384	Effects of pulsing parameters on production and distribution of macroparticles in cathodic vacuum arc deposition. <i>Journal of Vacuum Science and Technology A: Vacuum, Surfaces and Films</i> , 2006, 24, 957-961.	2.1	2
1385	Optical emission from C ₆₀ -coupled Î²-FeSi ₂ nanocomposites. <i>Applied Physics Letters</i> , 2006, 89, 233114.	3.3	2
1386	Photoluminescence from C ₆₀ -coupled porous structures formed on Fe ⁺ -implanted silicon. <i>Journal of Chemical Physics</i> , 2006, 125, 014706.	3.0	2

#	ARTICLE	IF	CITATIONS
1387	Experimental and theoretical investigation of the effects of sample size on copper plasma immersion ion implantation into polyethylene. <i>Journal of Applied Physics</i> , 2007, 101, 113302.	2.5	2
1388	Behaviors of Platelets Adherent on Si-N(H) Surface Prepared from Ammonia Plasma-Implanted Silicon. <i>Key Engineering Materials</i> , 2007, 330-332, 889-892.	0.4	2
1389	Microwave enhanced ion-cut silicon layer transfer. <i>Journal of Applied Physics</i> , 2007, 101, 114915.	2.5	2
1390	A flexible curvilinear electromagnetic filter for direct current cathodic arc source. <i>Review of Scientific Instruments</i> , 2007, 78, 095103.	1.3	2
1391	Improved detection resolution in single particle microbeam system. <i>Nuclear Instruments and Methods in Physics Research, Section A: Accelerators, Spectrometers, Detectors and Associated Equipment</i> , 2008, 595, 312-316.	1.6	2
1392	Direct coupling of pulsed radio frequency and pulsed high power in novel pulsed power system for plasma immersion ion implantation. <i>Review of Scientific Instruments</i> , 2008, 79, 043501.	1.3	2
1393	Role of fluorine in plasma nitridated ZrO ₂ thin films under irradiation. <i>Applied Physics Letters</i> , 2008, 93, 122907.	3.3	2
1394	Stress influence on band-edge luminescence properties of 4H-AlN. <i>Applied Physics Letters</i> , 2009, 95, 121902.	3.3	2
1395	One-step, non-contact pattern transfer by direct-current plasma immersion ion implantation. <i>Journal Physics D: Applied Physics</i> , 2009, 42, 195201.	2.8	2
1396	High-voltage glow discharge plasma immersion ion implantation assisted by magnetic field. <i>Surface and Coatings Technology</i> , 2009, 203, 2751-2754.	4.8	2
1397	Influence of annular magnet on discharge characteristics in enhanced glow discharge plasma immersion ion implantation. <i>Applied Physics Letters</i> , 2011, 98, 021502.	3.3	2
1398	Transformation of Enhanced Glow Discharge Dynamics in Nitrogen Plasma Immersion Ion Implantation. <i>IEEE Transactions on Plasma Science</i> , 2013, 41, 553-558.	1.3	2
1399	Improved ion implant fluence uniformity in hydrogen enhanced glow discharge plasma immersion ion implantation into silicon. <i>Review of Scientific Instruments</i> , 2014, 85, 063506.	1.3	2
1400	Energy dissipation in mechanical loading of nano-grained graphene sheets. <i>RSC Advances</i> , 2016, 6, 60856-60861.	3.6	2
1401	Modification of Biomaterials and Biomedical Devices by Plasma Immersion Ion Implantation & Deposition and Related Techniques. , 2016, , .		2
1402	Tribological and Corrosion Properties of Nickel/TiC Bilayered Coatings Produced by Electroless Deposition and PACVD. <i>Journal of Materials Engineering and Performance</i> , 2016, 25, 4796-4804.	2.5	2
1403	Reutilization of industrial ultrafine carbon ash ($PM_{2.5}$) as rubber reinforcement filler. <i>Environmental Progress and Sustainable Energy</i> , 2016, 35, 1132-1138.	2.3	2
1404	Modulation of resistive switching in Pt/LiCoO ₂ /SiO ₂ /Si stacks. <i>Journal of Materials Science: Materials in Electronics</i> , 2019, 30, 4753-4759.	2.2	2

#	ARTICLE	IF	CITATIONS
1405	Bioactive inorganic-ion-doped titania nanotube coatings on bone implants with enhanced osteogenic activity and antibacterial properties. , 2019, , 401-427.		2
1406	Numerical analysis of a high-birefringent photonic quasi-crystal fiber with circular air holes. Optik, 2020, 207, 163850.	2.9	2
1407	Photoluminescence Properties of GaN Nanowires Grown in a Gradient-Plasma Environment. Journal of Physical Chemistry C, 2020, 124, 16002-16008.	3.1	2
1408	Photonic fibre crystal sensor with a D-shape based on surface plasma resonance containing microfluidic channels for detection of a wide range of refractive indexes. Journal of Modern Optics, 2022, 69, 1-11.	1.3	2
1409	Efficient photonic crystal fiber polarization splitters composed of gallium arsenide and nematic liquid crystals. Modern Physics Letters B, 2021, 35, 2150077.	1.9	2
1410	Exosomes derived from magnesium ion-stimulated macrophages inhibit angiogenesis. Biomedical Materials (Bristol), 2022, 17, 045008.	3.3	2
1411	Oxygen segregation and Ge diffusion in annealed oxygen ion-implanted relaxed SiGe/Si heterostructures. Journal of Electronic Materials, 2004, 33, 207-212.	2.2	1
1412	Controlled Growth of ZnO films on Si Substrate and N-doping Behavior. Materials Research Society Symposia Proceedings, 2005, 864, 7111.	0.1	1
1413	Si nanowires sheathed with thin diamondlike carbon films. Journal of Vacuum Science & Technology B, 2006, 24, 1702.	1.3	1
1414	Energy band mixing in core-shell-structured Si-FeSi ₂ nanocomposites. Applied Physics Letters, 2006, 89, 053114.	3.3	1
1415	Influence of acetylene to argon flow rate ratios on structure and properties of hydrogenated amorphous carbon films produced on steel substrates by plasma immersion ion implantation and deposition. Journal of Materials Research, 2007, 22, 982-988.	2.6	1
1416	Fabrication and characteristics of novel microelectronic structures fabricated by plasma-based techniques. Surface and Coatings Technology, 2007, 201, 6745-6751.	4.8	1
1417	Fabrication of silicon-on-insulator (SOI) and high-k materials using plasma technology. , 2008, , .		1
1418	Fabrication for multilayered composite thin films by dual-channel vacuum arc deposition. Review of Scientific Instruments, 2008, 79, 065104.	1.3	1
1419	Fabrication and Surface Modification of Porous Nano-Structured NiTi Orthopedic Scaffolds for Bone Implants. Materials Research Society Symposia Proceedings, 2009, 1181, 7.	0.1	1
1420	Hot spots in silver nano-dendrites fabricated by self-selective electroless plating. , 2010, , .		1
1421	Interaction Between Fluorinated Amphiphilic Copolymer P(HFMA)-g-P(SPEG) and BSA. Journal of Dispersion Science and Technology, 2011, 32, 1185-1190.	2.4	1
1422	Ion trajectories and shadow effects in mesh-assisted plasma immersion ion implantation of insulator. Applied Surface Science, 2012, 258, 2910-2913.	6.1	1

#	ARTICLE	IF	CITATIONS
1423	Fabrication of Si@Ag@wire-cap nanostructures for metal-enhanced fluorescence. Journal of Luminescence, 2012, 132, 2586-2589.	3.1	1
1424	Enhanced Photoelectrochemical Oxygen Evolution Reaction based on Surface Autocatalytic Effect of Ultrathin 3C-SiC Nanocrystals. Journal of the Electrochemical Society, 2013, 160, H620-H623.	2.9	1
1425	Concentrated ion beam emitted from an enlarged cylindrical-anode-layer Hall plasma accelerator and mechanism. Journal of Applied Physics, 2013, 113, 043302.	2.5	1
1426	Self-sealing SiO ₂ pores on silicon formed by oxidation of microporous silicon. Microporous and Mesoporous Materials, 2013, 174, 10-13.	4.4	1
1427	Titania Nanotube Coatings on Dental Implants with Enhanced Osteogenic Activity and Anti-Infection Properties. , 2013, , 337-357.		1
1428	Metal oxide coating on first mirror in fusion reactor with carbon wall. Surface and Coatings Technology, 2014, 240, 464-469.	4.8	1
1429	Demagnification and Magnification Effects in One-Step Noncontact Pattern Transfer by Direct-Current Plasma Immersion Ion Implantation. IEEE Transactions on Plasma Science, 2015, 43, 552-556.	1.3	1
1430	Biaxially strained germanium micro-dot array by hydrogen ion implantation. Surface and Coatings Technology, 2019, 365, 248-252.	4.8	1
1431	Analysis of defect states in optical microcavities based on the photonic quantum well structure. Optics Communications, 2020, 458, 124880.	2.1	1
1432	Toroidal dipole and magnetic multipole excitations from the same nanostructure with different direction of electric dipole emitters. Applied Physics A: Materials Science and Processing, 2020, 126, 1.	2.3	1
1433	Enhancement of unidirectional forward scattering and suppression of backward scattering in hollow silicon nanoblocks. Applied Optics, 2021, 60, 8737.	1.8	1
1434	A water-soluble membrane for SARS-CoV-2 viral nucleic acid sampling and detection. Nanoscale, 2021, 13, 18084-18088.	5.6	1
1435	Multiple unidirectional forward scattering of hybrid metal-dielectric nanoantenna in the near-infrared region. Optical Materials Express, 2018, 8, 3410.	3.0	1
1436	Finite phosphorene derived partial reduction of metal organic framework nanofoams for enhanced lithium storage capability. Journal of Power Sources, 2022, 525, 231025.	7.8	1
1437	High-precision modeling of dynamic etching in high-power magnetron sputtering. Journal Physics D: Applied Physics, 2022, 55, 325203.	2.8	1
1438	In situ synthesis of 3D metal oxides/Ni ₃ C on the macroporous electrically conductive network for enhanced electron field emission. Materials Letters, 2022, 323, 132524.	2.6	1
1439	A static three-chamber zinc-polyiodide redox battery for decoupling of active anions and cations. Journal of Energy Storage, 2022, 54, 105258.	8.1	1
1440	Low-Dielectric Constant SiO(F,C) Films for ULSI Interconnections Prepared by CF ₄ Plasma Ion Implantation. Materials Research Society Symposia Proceedings, 1998, 511, 63.	0.1	0

#	ARTICLE	IF	CITATIONS
1441	Fabrication of novel silicon-on-insulator substrates using plasma-based technology. , 2006, , .		0
1442	Nano-film and Coating for Biomedical Application Prepared by Plasma-based Technologies. Materials Research Society Symposia Proceedings, 2007, 1020, 1.	0.1	0
1443	Plasma ion implantation to thin polymer foils. Physica Status Solidi (A) Applications and Materials Science, 2008, 205, 953-956.	1.8	0
1444	Uniformity of Plasma Density and Film Thickness of Coatings Deposited Inside a Cylindrical Tube by Radio Frequency Sputtering. Plasma Science and Technology, 2008, 10, 560-564.	1.5	0
1445	Response to "Comment on 'Effects of magnetic field gradient on ion beam current in cylindrical Hall ion source'" [J. Appl. Phys. 104, 066102 (2008)]. Journal of Applied Physics, 2008, 104, 066103.	2.5	0
1446	Effects of aluminum and nitrogen plasma immersion ion implantation on mechanical properties and oxidation resistance of copper. , 2009, , .		0
1447	Direct growth of Nb ₂ O ₅ nanobelts on Nb foil. , 2010, , .		0
1448	Plasma immersion ion implantation into cylindrical bore using internal inductively-coupled radio-frequency discharge. Surface and Coatings Technology, 2010, , .	4.8	0
1449	Anisotropic dissipative effects on the buoyancy instability with background heat flux. Physics of Plasmas, 2011, 18, 032106.	1.9	0
1450	A novel method for effective sodium ion implantation into silicon. Review of Scientific Instruments, 2012, 83, 075116.	1.3	0
1451	Breathing oscillations in enlarged cylindrical-anode-layer Hall plasma accelerator. Journal of Applied Physics, 2013, 113, 203302.	2.5	0
1452	Characterization of SnO ₂ /Ni/SiO ₂ -MCP anode in three-dimensional lithium-ion battery. Proceedings of SPIE, 2013, , .	0.8	0
1453	Biological Applications. Engineering Materials and Processes, 2014, , 317-330.	0.4	0
1454	Study on the strain in a silicon microchannel plate by micro-Raman analysis. Semiconductor Science and Technology, 2016, 31, 055010.	2.0	0
1455	Three-dimensional graphene nanosheets supported by NiO/Si-MCP as electrode materials for high-performance supercapacitors. Ionics, 2017, 23, 2185-2191.	2.4	0
1456	The effect of copper pretreatment on graphene synthesis by ion implantation into Ni/Cu substrate. Semiconductor Science and Technology, 2018, 33, 074001.	2.0	0
1457	Influence of plasma excitation power on mechanical property and biocompatibility of titania/alumina composite thin films for medical implant prepared by magnetron sputtering. Materials Research Express, 2019, 6, 116418.	1.6	0
1458	Localized Surface Plasmon Resonance Properties of Concentric Dual-Ring Nanodisk. Nano, 2019, 14, 1950071.	1.0	0

#	ARTICLE	IF	CITATIONS
1459	Influence of Acetylene on Ti Target Poisoning During Pulse-Enhanced Vacuum Arc Evaporation. IEEE Transactions on Plasma Science, 2020, 48, 2799-2809.	1.3	0
1460	Surface-enhanced Raman Scattering Substrates Prepared by Magnetron Sputtering Using Anodized Titanium Oxide Nanotube Ends as Template. , 2013, , .		0
1461	Plasma Surface Modification of Magnesium-Based and Related Materials. , 2016, , 329-330.		0
1462	Fano resonances in symmetric plasmonic split-ring/ring dimer nanostructures. Applied Optics, 2019, 58, 8069.	1.8	0