

Paul Chu

List of Publications by Year in descending order

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Version: 2024-02-01

1,890
papers

88,335
citations

588

125
h-index

1565

217
g-index

1909
all docs

1909
docs citations

1909
times ranked

70521
citing authors

#	ARTICLE	IF	CITATIONS
1	Surface modification of titanium, titanium alloys, and related materials for biomedical applications. <i>Materials Science and Engineering Reports</i> , 2004, 47, 49-121.	14.8	2,804
2	Plasma-surface modification of biomaterials. <i>Materials Science and Engineering Reports</i> , 2002, 36, 143-206.	14.8	1,317
3	Characterization of amorphous and nanocrystalline carbon films. <i>Materials Chemistry and Physics</i> , 2006, 96, 253-277.	2.0	967
4	Ultrasmall Black Phosphorus Quantum Dots: Synthesis and Use as Photothermal Agents. <i>Angewandte Chemie - International Edition</i> , 2015, 54, 11526-11530.	7.2	906
5	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.	7.8	862
6	Biodegradable black phosphorus-based nanospheres for in vivo photothermal cancer therapy. <i>Nature Communications</i> , 2016, 7, 12967.	5.8	835
7	Antibacterial coatings on titanium implants. <i>Journal of Biomedical Materials Research - Part B Applied Biomaterials</i> , 2009, 91B, 470-480.	1.6	732
8	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.	5.5	690
9	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.	4.0	671
10	Antibacterial nano-structured titania coating incorporated with silver nanoparticles. <i>Biomaterials</i> , 2011, 32, 5706-5716.	5.7	670
11	Flexible and ion-conducting membrane electrolytes for solid-state lithium batteries: Dispersion of garnet nanoparticles in insulating polyethylene oxide. <i>Nano Energy</i> , 2016, 28, 447-454.	8.2	651
12	Versatile Approach for Integrative and Functionalized Tubes by Strain Engineering of Nanomembranes on Polymers. <i>Advanced Materials</i> , 2008, 20, 4085-4090.	11.1	608
13	In vitro studies of biomedical magnesium alloys in a simulated physiological environment: A review. <i>Acta Biomaterialia</i> , 2011, 7, 1452-1459.	4.1	602
14	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.	7.3	591
15	A biodegradable polymer-based coating to control the performance of magnesium alloy orthopaedic implants. <i>Biomaterials</i> , 2010, 31, 2084-2096.	5.7	521
16	Scalable synthesis of ant-nest-like bulk porous silicon for high-performance lithium-ion battery anodes. <i>Nature Communications</i> , 2019, 10, 1447.	5.8	494
17	3D printing of hydrogels: Rational design strategies and emerging biomedical applications. <i>Materials Science and Engineering Reports</i> , 2020, 140, 100543.	14.8	494
18	Surface Coordination of Black Phosphorus for Robust Air and Water Stability. <i>Angewandte Chemie - International Edition</i> , 2016, 55, 5003-5007.	7.2	479

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19	Metal-Ion-Modified Black Phosphorus with Enhanced Stability and Transistor Performance. <i>Advanced Materials</i> , 2017, 29, 1703811.	11.1	431
20	Cyclodextrin-Based Host-Guest Supramolecular Nanoparticles for Delivery: From Design to Applications. <i>Accounts of Chemical Research</i> , 2014, 47, 2017-2025.	7.6	418
21	The influence of hierarchical hybrid micro/nano-textured titanium surface with titania nanotubes on osteoblast functions. <i>Biomaterials</i> , 2010, 31, 5072-5082.	5.7	401
22	Facile Fabrication of Superhydrophobic Surface with Excellent Mechanical Abrasion and Corrosion Resistance on Copper Substrate by a Novel Method. <i>ACS Applied Materials & Interfaces</i> , 2014, 6, 8762-8770.	4.0	387
23	Synthesis, dispersion, and cytocompatibility of graphene oxide and reduced graphene oxide. <i>Colloids and Surfaces B: Biointerfaces</i> , 2012, 89, 79-85.	2.5	354
24	Influence of aggressive ions on the degradation behavior of biomedical magnesium alloy in physiological environment. <i>Acta Biomaterialia</i> , 2008, 4, 2008-2015.	4.1	341
25	Synergistic effects of dual Zn/Ag ion implantation in osteogenic activity and antibacterial ability of titanium. <i>Biomaterials</i> , 2014, 35, 7699-7713.	5.7	340
26	Plasma immersion ion implantation—a fledgling technique for semiconductor processing. <i>Materials Science and Engineering Reports</i> , 1996, 17, 207-280.	14.8	335
27	Antibacterial effects and biocompatibility of titanium surfaces with graded silver incorporation in titania nanotubes. <i>Biomaterials</i> , 2014, 35, 4255-4265.	5.7	319
28	Mechanism of apatite formation on wollastonite coatings in simulated body fluids. <i>Biomaterials</i> , 2004, 25, 1755-1761.	5.7	315
29	Low-dimensional SiC nanostructures: Fabrication, luminescence, and electrical properties. <i>Progress in Materials Science</i> , 2006, 51, 983-1031.	16.0	312
30	Surface design of biodegradable magnesium alloys — A review. <i>Surface and Coatings Technology</i> , 2013, 233, 2-12.	2.2	309
31	Biological actions of silver nanoparticles embedded in titanium controlled by micro-galvanic effects. <i>Biomaterials</i> , 2011, 32, 693-705.	5.7	307
32	Design of magnesium alloys with controllable degradation for biomedical implants: From bulk to surface. <i>Acta Biomaterialia</i> , 2016, 45, 2-30.	4.1	306
33	The effects of titania nanotubes with embedded silver oxide nanoparticles on bacteria and osteoblasts. <i>Biomaterials</i> , 2014, 35, 4223-4235.	5.7	305
34	Recent progress of transition metal nitrides for efficient electrocatalytic water splitting. <i>Sustainable Energy and Fuels</i> , 2019, 3, 366-381.	2.5	305
35	Cytocompatibility, osseointegration, and bioactivity of three-dimensional porous and nanostructured network on polyetheretherketone. <i>Biomaterials</i> , 2013, 34, 9264-9277.	5.7	302
36	Black Phosphorus-Incorporated Hydrogel as a Sprayable and Biodegradable Photothermal Platform for Postsurgical Treatment of Cancer. <i>Advanced Science</i> , 2018, 5, 1700848.	5.6	289

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37	Experimental Evidence for the Quantum Confinement Effect in 3C-SiC Nanocrystallites. <i>Physical Review Letters</i> , 2005, 94, 026102.	2.9	288
38	New Ultraviolet Photodetector Based on Individual Nb ₂ O ₅ Nanobelts. <i>Advanced Functional Materials</i> , 2011, 21, 3907-3915.	7.8	285
39	A General and Facile Approach to Heterostructured Core/Shell BiVO ₄ /BiOI <i>in Situ</i> Assembly and Highly Boosted Visible-Light Photocatalysis. <i>ACS Sustainable Chemistry and Engineering</i> , 2015, 3, 3262-3273.	3.2	285
40	Rose-bengal-conjugated gold nanorods for <i>in vivo</i> photodynamic and photothermal oral cancer therapies. <i>Biomaterials</i> , 2014, 35, 1954-1966.	5.7	276
41	Effects of micropitted/nanotubular titania topographies on bone mesenchymal stem cell osteogenic differentiation. <i>Biomaterials</i> , 2012, 33, 2629-2641.	5.7	273
42	Osteogenic activity and antibacterial effects on titanium surfaces modified with Zn-incorporated nanotube arrays. <i>Biomaterials</i> , 2013, 34, 3467-3478.	5.7	269
43	Group IV Nanoparticles: Synthesis, Properties, and Biological Applications. <i>Small</i> , 2010, 6, 2080-2098.	5.2	264
44	Enhanced Ion Conductivity in Conducting Polymer Binder for High-Performance Silicon Anodes in Advanced Lithium-Ion Batteries. <i>Advanced Energy Materials</i> , 2018, 8, 1702314.	10.2	258
45	Ti ₄ -Coordinated Black Phosphorus Quantum Dots as an Efficient Contrast Agent for <i>In Vivo</i> Photoacoustic Imaging of Cancer. <i>Small</i> , 2017, 13, 1602896.	5.2	251
46	Recent advance and prospectives of electrocatalysts based on transition metal selenides for efficient water splitting. <i>Nano Energy</i> , 2020, 78, 105234.	8.2	250
47	Small gold nanorods laden macrophages for enhanced tumor coverage in photothermal therapy. <i>Biomaterials</i> , 2016, 74, 144-154.	5.7	247
48	Rapid Sterilization and Accelerated Wound Healing Using Zn ²⁺ and Graphene Oxide Modified g-C ₃ N ₄ under Dual Light Irradiation. <i>Advanced Functional Materials</i> , 2018, 28, 1800299.	7.8	246
49	Hollow chitosan-silica nanospheres as pH-sensitive targeted delivery carriers in breast cancer therapy. <i>Biomaterials</i> , 2011, 32, 4976-4986.	5.7	245
50	Surface nano-functionalization of biomaterials. <i>Materials Science and Engineering Reports</i> , 2010, 70, 275-302.	14.8	244
51	A CRISPR-Cas9-triggered strand displacement amplification method for ultrasensitive DNA detection. <i>Nature Communications</i> , 2018, 9, 5012.	5.8	244
52	Stimulation of bone growth following zinc incorporation into biomaterials. <i>Biomaterials</i> , 2014, 35, 6882-6897.	5.7	241
53	Photothermal Contribution to Enhanced Photocatalytic Performance of Graphene-Based Nanocomposites. <i>ACS Nano</i> , 2014, 8, 9304-9310.	7.3	240
54	Raman scattering study of zinc blende and wurtzite ZnS. <i>Journal of Applied Physics</i> , 2009, 106, .	1.1	235

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55	Surface energy, wettability, and blood compatibility phosphorus doped diamond-like carbon films. <i>Diamond and Related Materials</i> , 2005, 14, 78-85.	1.8	230
56	Balancing Bacteriaâ€œOsteoblast Competition through Selective Physical Puncture and Biofunctionalization of ZnO/Polydopamine/Arginine-Glycine-Aspartic Acid-Cysteine Nanorods. <i>ACS Nano</i> , 2017, 11, 11250-11263.	7.3	230
57	Synthesis and low-temperature photoluminescence properties of SnO ₂ nanowires and nanobelts. <i>Nanotechnology</i> , 2006, 17, 1695-1699.	1.3	228
58	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.	5.3	227
59	High-Performance Two-Ply Yarn Supercapacitors Based on Carbon Nanotube Yarns Dotted with Co ₃ O ₄ and NiO Nanoparticles. <i>Small</i> , 2015, 11, 854-861.	5.2	226
60	Synergistic Bacteria Killing through Photodynamic and Physical Actions of Graphene Oxide/Ag/Collagen Coating. <i>ACS Applied Materials & Interfaces</i> , 2017, 9, 26417-26428.	4.0	223
61	Antibacterial effects of titanium embedded with silver nanoparticles based on electron-transfer-induced reactive oxygen species. <i>Biomaterials</i> , 2017, 124, 25-34.	5.7	219
62	Engineering Nanoparticle-Coated Bacteria as Oral DNA Vaccines for Cancer Immunotherapy. <i>Nano Letters</i> , 2015, 15, 2732-2739.	4.5	213
63	Symmetrical dual D-shape photonic crystal fibers for surface plasmon resonance sensing. <i>Optics Express</i> , 2018, 26, 9039.	1.7	213
64	The osteogenic activity of strontium loaded titania nanotube arrays on titanium substrates. <i>Biomaterials</i> , 2013, 34, 19-29.	5.7	212
65	Inâ€œPlane Black Phosphorus/Dicobalt Phosphide Heterostructure for Efficient Electrocatalysis. <i>Angewandte Chemie - International Edition</i> , 2018, 57, 2600-2604.	7.2	209
66	Functionalized TiO ₂ Based Nanomaterials for Biomedical Applications. <i>Advanced Functional Materials</i> , 2014, 24, 5464-5481.	7.8	208
67	Enhanced osteointegration on tantalum-implanted polyetheretherketone surface with bone-like elastic modulus. <i>Biomaterials</i> , 2015, 51, 173-183.	5.7	206
68	Inâ€œvitro and inâ€œvivo anti-biofilm effects of silver nanoparticles immobilized on titanium. <i>Biomaterials</i> , 2014, 35, 9114-9125.	5.7	205
69	Metabolizable Ultrathin Bi ₂ Se ₃ Nanosheets in Imagingâ€œGuided Photothermal Therapy. <i>Small</i> , 2016, 12, 4136-4145.	5.2	203
70	Bioactive SrTiO ₃ Nanotube Arrays: Strontium Delivery Platform on Ti-Based Osteoporotic Bone Implants. <i>ACS Nano</i> , 2009, 3, 3228-3234.	7.3	198
71	Enhanced antimicrobial properties, cytocompatibility, and corrosion resistance of plasma-modified biodegradable magnesium alloys. <i>Acta Biomaterialia</i> , 2014, 10, 544-556.	4.1	194
72	Gold-nanorods-siRNA nanoplex for improved photothermal therapy by gene silencing. <i>Biomaterials</i> , 2016, 78, 27-39.	5.7	192

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73	Corrosion behavior of biomedical AZ91 magnesium alloy in simulated body fluids. <i>Journal of Materials Research</i> , 2007, 22, 2004-2011.	1.2	189
74	Intrinsic Dipole-Field-Driven Mesoscale Crystallization of Core-Shell ZnO Mesocrystal Microspheres. <i>Journal of the American Chemical Society</i> , 2009, 131, 9405-9412.	6.6	189
75	Influence of sulfur content on bone formation and antibacterial ability of sulfonated PEEK. <i>Biomaterials</i> , 2016, 83, 115-126.	5.7	189
76	Zinc-Modified Sulfonated Polyetheretherketone Surface with Immunomodulatory Function for Guiding Cell Fate and Bone Regeneration. <i>Advanced Science</i> , 2018, 5, 1800749.	5.6	184
77	Direct Growth of Graphene Film on Germanium Substrate. <i>Scientific Reports</i> , 2013, 3, 2465.	1.6	181
78	Recent progress in nanostructured transition metal nitrides for advanced electrochemical energy storage. <i>Journal of Materials Chemistry A</i> , 2019, 7, 14-37.	5.2	181
79	Near-infrared light control of bone regeneration with biodegradable photothermal osteoimplant. <i>Biomaterials</i> , 2019, 193, 1-11.	5.7	181
80	Quantum confinement effects across two-dimensional planes in MoS ₂ quantum dots. <i>Applied Physics Letters</i> , 2015, 106, .	1.5	180
81	Simultaneous nanostructure and heterojunction engineering of graphitic carbon nitride via in situ Ag doping for enhanced photoelectrochemical activity. <i>Applied Catalysis B: Environmental</i> , 2015, 163, 611-622.	10.8	180
82	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.	4.1	180
83	VO ₂ /TiN Plasmonic Thermo-chromic Smart Coatings for Room-Temperature Applications. <i>Advanced Materials</i> , 2018, 30, 1705421.	11.1	179
84	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.	7.3	175
85	Identification of oxygen vacancy types from Raman spectra of SnO ₂ nanocrystals. <i>Journal of Raman Spectroscopy</i> , 2012, 43, 1423-1426.	1.2	172
86	Electrochemical surface engineering of titanium-based alloys for biomedical application. <i>Electrochimica Acta</i> , 2018, 271, 699-718.	2.6	168
87	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.	2.6	168
88	3C-SiC Nanocrystals as Fluorescent Biological Labels. <i>Small</i> , 2008, 4, 1058-1062.	5.2	165
89	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.	3.0	162
90	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.	3.0	161

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91	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.	2.6	160
92	Mechanism of Photoluminescence from Chemically Derived Graphene Oxide: Role of Chemical Reduction. <i>Advanced Optical Materials</i> , 2013, 1, 926-932.	3.6	160
93	Evaporative Self-Assembly of Gold Nanorods into Macroscopic 3D Plasmonic Superlattice Arrays. <i>Advanced Materials</i> , 2016, 28, 2511-2517.	11.1	160
94	Freestanding carbon encapsulated mesoporous vanadium nitride nanowires enable highly stable sulfur cathodes for lithium-sulfur batteries. <i>Nano Energy</i> , 2017, 40, 655-662.	8.2	159
95	Stable and Multifunctional Dye-Modified Black Phosphorus Nanosheets for Near-Infrared Imaging-Guided Photothermal Therapy. <i>Chemistry of Materials</i> , 2017, 29, 7131-7139.	3.2	158
96	Surface plasmon resonance (SPR) infrared sensor based on D-shape photonic crystal fibers with ITO coatings. <i>Optics Communications</i> , 2020, 464, 125496.	1.0	157
97	In vitro corrosion degradation behaviour of Mg-Ca alloy in the presence of albumin. <i>Corrosion Science</i> , 2010, 52, 3341-3347.	3.0	154
98	An antibacterial platform based on capacitive carbon-doped TiO ₂ nanotubes after direct or alternating current charging. <i>Nature Communications</i> , 2018, 9, 2055.	5.8	153
99	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.	8.2	152
100	Antithrombogenic investigation of surface energy and optical bandgap and hemocompatibility mechanism of Ti(Ta+5)O ₂ thin films. <i>Biomaterials</i> , 2002, 23, 2545-2552.	5.7	150
101	Designing Core-Shell Gold and Selenium Nanocomposites for Cancer Radiochemotherapy. <i>ACS Nano</i> , 2017, 11, 4848-4858.	7.3	150
102	Biomass-derived robust three-dimensional porous carbon for high volumetric performance supercapacitors. <i>Journal of Power Sources</i> , 2019, 412, 1-9.	4.0	150
103	Hydrogenated V ₂ O ₅ Nanosheets for Superior Lithium Storage Properties. <i>Advanced Functional Materials</i> , 2016, 26, 784-791.	7.8	149
104	Activation of platelets adhered on amorphous hydrogenated carbon (a-C:H) films synthesized by plasma immersion ion implantation-deposition (PIII-D). <i>Biomaterials</i> , 2003, 24, 2821-2829.	5.7	148
105	Light-emitting diodes enhanced by localized surface plasmon resonance. <i>Nanoscale Research Letters</i> , 2011, 6, 199.	3.1	147
106	Graphitic carbon nitride-based materials for photocatalytic antibacterial application. <i>Materials Science and Engineering Reports</i> , 2021, 145, 100610.	14.8	145
107	Biodegradable Mg-Cu alloys with enhanced osteogenesis, angiogenesis, and long-lasting antibacterial effects. <i>Scientific Reports</i> , 2016, 6, 27374.	1.6	144
108	Mechanical and biological characteristics of diamond-like carbon coated poly aryl-ether-ether-ketone. <i>Biomaterials</i> , 2010, 31, 8181-8187.	5.7	143

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109	Mechanical and thermal properties of basalt fiber reinforced poly(butylene succinate) composites. <i>Materials Chemistry and Physics</i> , 2012, 133, 845-849.	2.0	142
110	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.	5.7	140
111	Inactivation of a 25.5-µm <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.	1.3	138
112	Engineering and functionalization of biomaterials via surface modification. <i>Journal of Materials Chemistry B</i> , 2015, 3, 2024-2042.	2.9	138
113	Biomedical Applications of Functionalized ZnO Nanomaterials: from Biosensors to Bioimaging. <i>Advanced Materials Interfaces</i> , 2016, 3, 1500494.	1.9	138
114	Analysis of a Surface Plasmon Resonance Probe Based on Photonic Crystal Fibers for Low Refractive Index Detection. <i>Plasmonics</i> , 2018, 13, 779-784.	1.8	137
115	Magnetite-loaded fluorine-containing polymeric micelles for magnetic resonance imaging and drug delivery. <i>Biomaterials</i> , 2012, 33, 3013-3024.	5.7	136
116	Principles and characteristics of a new generation plasma immersion ion implanter. <i>Review of Scientific Instruments</i> , 1997, 68, 1866-1874.	0.6	135
117	Ni/Co-based nanosheet arrays for efficient oxygen evolution reaction. <i>Nano Energy</i> , 2018, 52, 360-368.	8.2	135
118	In situ crystallization for fabrication of a core-satellite structured BiOBr-CdS heterostructure with excellent visible-light-responsive photoreactivity. <i>Nanoscale</i> , 2015, 7, 11702-11711.	2.8	134
119	Degradation behaviour of pure magnesium in simulated body fluids with different concentrations of. <i>Corrosion Science</i> , 2011, 53, 1522-1528.	3.0	133
120	Interaction of electromagnetic waves with a magnetized nonuniform plasma slab. <i>IEEE Transactions on Plasma Science</i> , 2003, 31, 405-410.	0.6	131
121	Green light stimulates terahertz emission from mesocrystal microspheres. <i>Nature Nanotechnology</i> , 2011, 6, 103-106.	15.6	131
122	Plasma surface modification of poly vinyl chloride for improvement of antibacterial properties. <i>Biomaterials</i> , 2006, 27, 44-51.	5.7	130
123	Degradation susceptibility of surgical magnesium alloy in artificial biological fluid containing albumin. <i>Journal of Materials Research</i> , 2007, 22, 1806-1814.	1.2	130
124	Two-dimensional black phosphorus: Synthesis, modification, properties, and applications. <i>Materials Science and Engineering Reports</i> , 2017, 120, 1-33.	14.8	130
125	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.	1.5	128
126	Is There Real Upconversion Photoluminescence from Graphene Quantum Dots?. <i>Advanced Optical Materials</i> , 2013, 1, 554-558.	3.6	128

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127	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.	7.8	128
128	Nano Ag/ZnO-Incorporated Hydroxyapatite Composite Coatings: Highly Effective Infection Prevention and Excellent Osteointegration. <i>ACS Applied Materials & Interfaces</i> , 2018, 10, 1266-1277.	4.0	127
129	Evading strength-corrosion tradeoff in Mg alloys via dense ultrafine twins. <i>Nature Communications</i> , 2021, 12, 4616.	5.8	126
130	Carbon plasma immersion ion implantation of nickel-titanium shape memory alloys. <i>Biomaterials</i> , 2005, 26, 2265-2272.	5.7	125
131	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.	1.5	125
132	Radiation tolerance of Cu/W multilayered nanocomposites. <i>Journal of Nuclear Materials</i> , 2011, 413, 11-15.	1.3	125
133	A Biomimetic Hierarchical Scaffold: Natural Growth of Nanotitanates on Three-Dimensional Microporous Ti-Based Metals. <i>Nano Letters</i> , 2008, 8, 3803-3808.	4.5	124
134	Fabrication, modification, and biomedical applications of anodized TiO ₂ nanotube arrays. <i>RSC Advances</i> , 2014, 4, 17300-17324.	1.7	124
135	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.	4.6	124
136	Mo ₂ C/VC heterojunction embedded in graphitic carbon network: An advanced electrocatalyst for hydrogen evolution. <i>Nano Energy</i> , 2019, 60, 520-526.	8.2	124
137	A bifunctional hydrogel incorporated with CuS@MoS ₂ microspheres for disinfection and improved wound healing. <i>Chemical Engineering Journal</i> , 2020, 382, 122849.	6.6	124
138	Microstructure of Ti/Al ohmic contacts for n-AlGaN. <i>Applied Physics Letters</i> , 1998, 73, 2582-2584.	1.5	122
139	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.	7.3	122
140	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.	5.7	122
141	Blood compatibility and sp ³ /sp ² contents of diamond-like carbon (DLC) synthesized by plasma immersion ion implantation-deposition. <i>Surface and Coatings Technology</i> , 2002, 156, 289-294.	2.2	121
142	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.	4.0	120
143	Surface functionalization of biomaterials by radical polymerization. <i>Progress in Materials Science</i> , 2016, 83, 191-235.	16.0	120
144	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.	8.2	120

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145	Effects and Mechanism of Atmospheric-Pressure Dielectric Barrier Discharge Cold Plasma on Lactate Dehydrogenase (LDH) Enzyme. <i>Scientific Reports</i> , 2015, 5, 10031.	1.6	119
146	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.	8.2	119
147	Electron storage mediated dark antibacterial action of bound silver nanoparticles: Smaller is not always better. <i>Acta Biomaterialia</i> , 2013, 9, 5100-5110.	4.1	116
148	Black Phosphorus Based Photocathodes in Wideband Bifacial Dye-Sensitized Solar Cells. <i>Advanced Materials</i> , 2016, 28, 8937-8944.	11.1	116
149	Surface Coordination of Black Phosphorus for Robust Air and Water Stability. <i>Angewandte Chemie</i> , 2016, 128, 5087-5091.	1.6	116
150	Near-infrared light-triggered drug delivery system based on black phosphorus for in vivo bone regeneration. <i>Biomaterials</i> , 2018, 179, 164-174.	5.7	115
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