Paul K Chu

List of Publications by Year
in descending order

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1,462	72,253	767 119	2448 197
papers	citations	h-index	g-index

1470	1470	1470	60323
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	A new technique to optimize the properties of photonic crystal fibers supporting transmission of multiple orbital angular momentum modes. Journal of Optics (India), 2023, 52, 307-316.	1.7	7
2	Selective inhibition effects on cancer cells and bacteria of Niâ€“Tiâ€“O nanoporous layers grown on biomedical NiTi alloy by anodization. Rare Metals, 2022, 41, 78-85.	7.1	21
3	Hard and tough CrN coatings strengthened by high-density distorted coherent grain boundaries. Journal of Alloys and Compounds, 2022, 894, 162139.	5.5	8
4	In situ preparation of Mn-doped perovskite nanocrystalline films and application to white light emitting devices. Journal of Colloid and Interface Science, 2022, 606, 1163-1169.	9.4	16
5	A multifunctional antibacterial coating on bone implants for osteosarcoma therapy and enhanced osteointegration. Chemical Engineering Journal, 2022, 428, 131155.	12.7	23
6	Highly active cobalt-doped nickel sulfide porous nanocones for high-performance quasi-solid-state zinc-ion batteries. Journal of Energy Chemistry, 2022, 66, 237-249.	12.9	15
7	Magnesium cationic cue enriched interfacial tissue microenvironment nurtures the osseointegration of gamma-irradiated allograft bone. Bioactive Materials, 2022, 10, 32-47.	15.6	10
8	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
9	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
10	Recent advances in structural engineering of 2D hexagonal boron nitride electrocatalysts. Nano Energy, 2022, 91, 106661.	16.0	49
11	Short-brush NiFeOxHy films and the Pt derivative as high-performance electrode materials for efficient electrocatalytic water splitting. Applied Surface Science, 2022, 574, 151636.	6.1	7
12	Hydrogen permeation behavior and mechanism of multi-layered graphene coatings and mitigation of hydrogen embrittlement of pipe steel. Applied Surface Science, 2022, 573, 151529.	6.1	27
13	Porous Mo2C-Mo3N2 heterostructure/rGO with synergistic functions as polysulfides regulator for high-performance lithium sulfur batteries. Chemical Engineering Journal, 2022, 433, 133629.	12.7	10
14	Recent progress and perspective of cobalt-based catalysts for water splitting: design and nanoarchitectonics. Materials Today Energy, 2022, 23, 100911.	4.7	28
15	Stable static zinc-iodine redox battery constructed with graphene quantum dots coated graphite felt. Journal of Power Sources, 2022, 520, 230861.	7.8	6
16	A novel photonic quasi-crystal fiber for transmission of orbital angular momentum modes. Optik, 2022, 251, 168446.	2.9	5
17	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
18	Size-dependent flame retardancy of black phosphorus nanosheets. Nanoscale, 2022, 14, 2599-2604.	5.6	16

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19	Commercialization of Electric Vehicles in Hong Kong. Energies, 2022, 15, 942.	3.1	11
20	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
21	A programmed surface on polyetheretherketone for sequentially dictating osteoimmunomodulation and bone regeneration to achieve ameliorative osseointegration under osteoporotic conditions. Bioactive Materials, 2022, 14, 364-376.	15.6	39
22	A zinc-doped coating prepared on the magnesium alloy by plasma electrolytic oxidation for corrosion protection. Surface and Coatings Technology, 2022, 433, 128148.	4.8	19
23	Fan-shape Mn-doped CoO/C microspheres for high lithium-ion storage capacity. Journal of Alloys and Compounds, 2022, 903, 163980.	5.5	8
24	Enhanced ion conductivity and electrodeâ€“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
25	Origin of superior pseudocapacitive mechanism of transition metal nitrides. Journal of Energy Chemistry, 2022, 69, 561-568.	12.9	11
26	Fabrication and cutting performance of CrAlN/CrAl multilayer coatings deposited by continuous high-power magnetron sputtering. Ceramics International, 2022, 48, 14528-14536.	4.8	3
27	Balancing the biocompatibility and bacterial resistance of polypyrrole by optimized silver incorporation. Materials Science and Engineering C, 2022, 134, 112701.	7.3	9
28	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
29	Plasma Engineering of Basal Sulfur Sites on MoS₂@Ni₃S₂ Nanorods for the Alkaline Hydrogen Evolution Reaction. Advanced Science, 2022, 9, e2104774.	11.2	26
30	Plasma modified and tailored defective electrocatalysts for water electrolysis and hydrogen fuel cells. EcoMat, 2022, 4, .	11.9	22
31	Versatile Phenolâ€Incorporated Nanoframes for In Situ Antibacterial Activity Based on Oxidative and Physical Damages. Advanced Functional Materials, 2022, 32, .	14.9	17
32	Surface and interface control of black phosphorus. CheM, 2022, 8, 632-662.	11.7	28
33	Dynamic active sites on plasma engraved Ni hydroxide for enhanced electro-catalytic urea oxidation. Journal of Energy Chemistry, 2022, 71, 150-158.	12.9	23
34	Diamond-like carbon coating and surface grafting of osteoprotegerin and alendronate on polyetheretherketone to ameliorate the mechanical performance and osseointegration simultaneously. Composites Part B: Engineering, 2022, 236, 109815.	12.0	14
35	Fabrication and hydrogen permeation resistance of dense CrN coatings. Surface and Coatings Technology, 2022, 437, 128326.	4.8	10
36	Sodium alginate coating on biodegradable high-purity magnesium with a hydroxide/silane transition layer for corrosion retardation. Colloids and Surfaces A: Physicochemical and Engineering Aspects, 2022, 642, 128647.	4.7	10

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37	Effects of acid treatment and plasma micromachining on the surface properties of carbon fibers. Applied Surface Science, 2022, 592, 153261.	6.1	9
38	Se-NiSe2 hybrid nanosheet arrays with self-regulated elemental Se for efficient alkaline water splitting. Journal of Materials Science and Technology, 2022, 118, 136-143.	10.7	46
39	Hofmeister Effect and Electrostatic Interaction Enhanced Ionic Conductive Organohydrogels for Electronic Applications. Advanced Functional Materials, 2022, 32, .	14.9	41
40	Degradation of gemfibrozil in aqueous solutions by gasâ€“liquid dielectric barrier discharge plasma combined with CNTs/Î³Fe₂O₃. Plasma Processes and Polymers, 2022, 19, .	3.0	3
41	A highly sensitive D-type photonic crystal fiber infrared sensor with indium tin oxide based on surface plasmon resonance. Modern Physics Letters B, 2022, 36, .	1.9	14
42	Near-infrared photonic artificial synapses based on organic heterojunction phototransistors. Applied Physics Letters, 2022, 120, .	3.3	8
43	A silicate-loaded MgAl LDH self-healing coating on biomedical Mg alloys for corrosion retardation and cytocompatibility enhancement. Surface and Coatings Technology, 2022, 439, 128442.	4.8	16
44	Detection of kerosene adulteration in automobile fuel by a low-loss surface plasmon resonance (SPR) chemical sensor. Analytical Methods, 2022, 14, 2153-2160.	2.7	3
45	Inâ€Plane Mottâ€“Schottky Effects Enabling Efficient Hydrogen Evolution from Mo₅N₆â€MoS₂ Heterojunction Nanosheets in Universalâ€pH Electrolytes. Small, 2022, 18, e2201137.	10.0	37
46	Exosomes derived from magnesium ionâ€”stimulated macrophages inhibit angiogenesis. Biomedical Materials (Bristol), 2022, 17, 045008.	3.3	2
47	In-Situ and controllable construction of Mo2N embedded Mo2C nanobelts as robust electrocatalyst for superior pH-universal hydrogen evolution reaction. Journal of Alloys and Compounds, 2022, 918, 165611.	5.5	11
48	Subnanometer MoP clusters confined in mesoporous carbon (CMK-3) as superior electrocatalytic sulfur hosts for high-performance lithium-sulfur batteries. Chemical Engineering Journal, 2022, 446, 137050.	12.7	9
49	High-precision modeling of dynamic etching in high-power magnetron sputtering. Journal Physics D: Applied Physics, 2022, 55, 325203.	2.8	1
50	Numerical Analysis of Multifunctional Biosensor with Dual-Channel Photonic Crystal Fibers Based on Localized Surface Plasmon Resonance. Coatings, 2022, 12, 742.	2.6	3
51	Ti₃C₂T_X MXene Modified with ZnTCPP with Bacteria Capturing Capability and Enhanced Visible Light Photocatalytic Antibacterial Activity. Small, 2022, 18, .	10.0	49
52	Interface Polarization Strengthened Microwave Catalysis of MoS₂/FeS/Rhein for the Therapy of Bacteriaâ€Infected Osteomyelitis. Advanced Functional Materials, 2022, 32, .	14.9	26
53	In situ synthesis of 3D metal oxides/Ni3C on the macroporous electrically conductive network for enhanced electron field emission. Materials Letters, 2022, 323, 132524.	2.6	1
54	Plasmon-enhanced hydrogen evolution on Pt-anchored titanium nitride nanowire arrays. Applied Surface Science, 2022, 598, 153745.	6.1	14

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55	General synthesis of nanostructured Mo2C electrocatalysts using a carbon template for electrocatalytic applications. Carbon, 2022, 197, 238-245.	10.3	14
56	Construction of Î±-MnO2 on Carbon Fibers Modified with Carbon Nanotubes for Ultrafast Flexible Supercapacitors in Ionic Liquid Electrolytes with Wide Voltage Windows. Nanomaterials, 2022, 12, 2020.	4.1	9
57	Highly Durable and Efficient Ni-FeO_x/FeNi₃ Electrocatalysts Synthesized by a Facile In Situ Combustion-Based Method for Overall Water Splitting with Large Current Densities. ACS Applied Materials & Interfaces, 2022, 14, 27842-27853.	8.0	34
58	HE1,1 mode-excited surface plasmon resonance for refractive index sensing by photonic crystal fibers with high sensitivity and long detection distance. Optik, 2022, 265, 169471.	2.9	10
59	A photonic quasi-crystal fibre supporting stable transmission of 150 OAM modes with high mode quality and flat dispersion. Journal of Modern Optics, 2022, 69, 887-896.	1.3	3
60	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
61	Utilization of coal fly ash in China: a mini-review on challenges and future directions. Environmental Science and Pollution Research, 2021, 28, 18727-18740.	5.3	76
62	Electrochemical stability, corrosion behavior, and biological properties of Niâ€“Tiâ€“O nanoporous layers anodically on NiTi alloy. Corrosion Science, 2021, 179, 109104.	6.6	21
63	Investigation of the microstructure on the nanoporous carbon based capacitive performance. Microporous and Mesoporous Materials, 2021, 310, 110629.	4.4	6
64	Synergistic antibacterial activity of physical-chemical multi-mechanism by TiO2 nanorod arrays for safe biofilm eradication on implant. Bioactive Materials, 2021, 6, 12-25.	15.6	111
65	Enhanced corrosion resistance, antibacterial properties, and biocompatibility by hierarchical hydroxyapatite/ciprofloxacin-calcium phosphate coating on nitrided NiTi alloy. Materials Science and Engineering C, 2021, 118, 111524.	7.3	25
66	Stepwise 3D-spatio-temporal magnesium cationic niche: Nanocomposite scaffold mediated microenvironment for modulating intramembranous ossification. Bioactive Materials, 2021, 6, 503-519.	15.6	27
67	Silicon monophosphides with controlled size and crystallinity for enhanced lithium anodic performance. Nanoscale, 2021, 13, 51-58.	5.6	9
68	Complete ablation of resistant tumors with photosensitive black phosphorus quantum dots-based lipid nanocapsules. Chemical Engineering Journal, 2021, 421, 127879.	12.7	5
69	Large-scale and low-cost synthesis of in situ generated SiC/C nano-composites from rice husks for advanced electromagnetic wave absorption applications. Surface and Coatings Technology, 2021, 406, 126641.	4.8	23
70	Effects of the target-to-substrate distance on the microstructure and properties of TiN coatings fabricated by pulse-enhanced vacuum arc evaporation. Journal of Adhesion Science and Technology, 2021, 35, 1125-1137.	2.6	4
71	Uniform cobalt nanoparticles-decorated biscuit-like VN nanosheets by in situ segregation for Li-ion batteries and oxygen evolution reaction. Applied Surface Science, 2021, 536, 147982.	6.1	23
72	Ultra-short and dual-core photonic crystal fiber polarization splitter composed of metal and gallium arsenide. Optik, 2021, 226, 165779.	2.9	25

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73	A Biomimetic Nanoâ€Engineered Platform for Functional Tissue Engineering of Cartilage Superficial Zone. Advanced Healthcare Materials, 2021, 10, e2001018.	7.6	14
74	Graphene-encapsulated blackberry-like porous silicon nanospheres prepared by modest magnesiothermic reduction for high-performance lithium-ion battery anode. Rare Metals, 2021, 40, 383-392.	7.1	65
75	Black phosphorus: Versatile twoâ€dimensional materials in cancer therapies. View, 2021, 2, 20200043.	5.3	16
76	Artificial synapses with a sponge-like double-layer porous oxide memristor. NPG Asia Materials, 2021, 13, .	7.9	31
77	Overview of refractive index sensors comprising photonic crystal fibers based on the surface plasmon resonance effect [Invited]. Chinese Optics Letters, 2021, 19, 102202.	2.9	65
78	Field emission from geometrically modulated tungsten-nickel sulfide / graphitic carbon nanobelts on Si microchannel plates. Ceramics International, 2021, 47, 4034-4042.	4.8	5
79	High-performance multi-dimensional nitrogen-doped N+MnO2@TiC/C electrodes for supercapacitors. Electrochimica Acta, 2021, 370, 137716.	5.2	24
80	3D urchin-like NiCo2O4 coated with carbon nanospheres prepared on flexible graphite felt for efficient bifunctional electrocatalytic water splitting. Journal of Materials Science, 2021, 56, 9961-9973.	3.7	12
81	Near-infrared light II - assisted rapid biofilm elimination platform for bone implants at mild temperature. Biomaterials, 2021, 269, 120634.	11.4	90
82	Surface plasmon resonance sensor based on U-shaped photonic quasi-crystal fiber. Applied Optics, 2021, 60, 1761.	1.8	27
83	A cationic alternating copolymer composed of ornithine and glycine with an ordered sequence for enhanced bacterial activity. Polymer Engineering and Science, 2021, 61, 1405-1414.	3.1	4
84	Wear and corrosion resistant coatings prepared on LY12 aluminum alloy by plasma electrolytic oxidation. Surface and Coatings Technology, 2021, 409, 126885.	4.8	23
85	Carbon-encapsulated nanosphere-assembled MoS2 nanosheets with large interlayer distance for flexible lithium-ion batteries. Journal of Solid State Electrochemistry, 2021, 25, 1657-1665.	2.5	8
86	Titania-zinc phosphate/nanocrystalline zinc composite coatings for corrosion protection of biomedical WE43 magnesium alloy. Surface and Coatings Technology, 2021, 410, 126940.	4.8	18
87	Improving exposure of anodically ordered Niâ€“Tiâ€“O and corrosion resistance and biological properties of NiTi alloys by substrate electropolishing. Rare Metals, 2021, 40, 3575-3587.	7.1	17
88	Multi-functional gallium arsenide photonic crystal polarization splitter with a gold core. Modern Physics Letters B, 2021, 35, 2150229.	1.9	3
89	Effects of hydrogen etching on MnO2 electrode materials for supercapacitors. Surface and Coatings Technology, 2021, 410, 126951.	4.8	5
90	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. Applied Nanoscience (Switzerland), 2021, 11, 1867-1880.	3.1	5

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91	A composite coating with physical interlocking and chemical bonding on WE43 magnesium alloy for corrosion protection and cytocompatibility enhancement. Surface and Coatings Technology, 2021, 412, 127078.	4.8	22
92	A photonic quasi-crystal fiber composed of circular air holes with high birefringence and low confinement loss. Optik, 2021, 231, 166497.	2.9	3
93	Cost-effective liquid-junction solar devices with plasma-implanted Ni/TiN/CNF hierarchically structured nanofibers. Journal of Electroanalytical Chemistry, 2021, 887, 115167.	3.8	10
94	Corrosion Behavior and Biocompatibility of Diamond-like Carbon-Coated Zinc: An In Vitro Study. ACS Omega, 2021, 6, 9843-9851.	3.5	25
95	Substitution of quartz and clay with fly ash in the production of architectural ceramics: A mechanistic study. Ceramics International, 2021, 47, 12514-12525.	4.8	13
96	Enhanced Hydrogen Evolution Activity of Phosphorusâ€Rich Tungsten Phosphide by Cobalt Doping: A Comprehensive Study of the Active Sites and Electronic Structure. ChemElectroChem, 2021, 8, 1658-1664.	3.4	7
97	Investigation of a high-sensitivity surface plasmon resonance sensor based on the eccentric core quasi D-shape photonic quasi-crystal fiber. Journal of Modern Optics, 2021, 68, 555-563.	1.3	4
98	Optoelectronic Artificial Synapses Based on Two-Dimensional Transitional-Metal Trichalcogenide. ACS Applied Materials & Interfaces, 2021, 13, 30797-30805.	8.0	41
99	Characteristics of continuous high power magnetron sputtering (C-HPMS) in reactive O2/Ar atmospheres. Journal of Applied Physics, 2021, 129, .	2.5	3
100	Strategies to improve cobalt-based electrocatalysts for electrochemical water splitting. Journal of Catalysis, 2021, 398, 54-66.	6.2	58
101	Enhanced corrosion resistance and reduced cytotoxicity of the <scp>AZ91</scp> Mg alloy by plasma nitriding and a hierarchical structure composed of ciprofloxacinâ€loaded polymeric multilayers and calcium phosphate coating. Journal of Biomedical Materials Research - Part A, 2021, 109, 2657-2672.	4.0	6
102	Macroscale Superlubricity on Engineering Steel in the Presence of Black Phosphorus. Nano Letters, 2021, 21, 5308-5315.	9.1	42
103	Plasma-activated interfaces for biomedical engineering. Bioactive Materials, 2021, 6, 2134-2143.	15.6	17
104	Graphene-mediated ferromagnetic coupling in the nickel nano-islands/graphene hybrid. Science Advances, 2021, 7, .	10.3	12
105	Ni₃S₂ 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
106	Graphitic carbon nitride-based materials for photocatalytic antibacterial application. Materials Science and Engineering Reports, 2021, 145, 100610.	31.8	145
107	Optimization and cuttingâ€edge design of fuelâ€cell hybrid electric vehicles. International Journal of Energy Research, 2021, 45, 18392-18423.	4.5	44
108	Circular anti-resonance fibre supporting orbital angular momentum modes with flat dispersion, high purity and low confinement loss. Journal of Modern Optics, 2021, 68, 784-791.	1.3	17

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109	In situ construction of Î³-MoC/VN heterostructured electrocatalysts with strong electron coupling for highly efficient hydrogen evolution reaction. Chemical Engineering Journal, 2021, 416, 129130.	12.7	31
110	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
111	Experimental and theoretical investigation of the control and balance of active sites on oxygen plasma-functionalized MoSe2 nanosheets for efficient hydrogen evolution reaction. Applied Catalysis B: Environmental, 2021, 288, 119983.	20.2	40
112	Programmed surface on poly(aryl-ether-ether-ketone) initiating immune mediation and fulfilling bone regeneration sequentially. Innovation(China), 2021, 2, 100148.	9.1	21
113	Engineering CsPbBr3 quantum dots with efficient luminescence and stability by damage-free encapsulation with a-SiCx:H. Journal of Luminescence, 2021, 236, 118086.	3.1	3
114	Facile synthesis of ZnO doped with Au nanoparticles for sensitive and reliable photoelectrochemical detection of glucose. Ionics, 2021, 27, 4449-4459.	2.4	3
115	GaO_x@GaN Nanowire Arrays on Flexible Graphite Paper with Tunable Persistent Photoconductivity. ACS Applied Materials & Interfaces, 2021, 13, 41916-41925.	8.0	4
116	TiO2 film supported by vertically aligned gold nanorod superlattice array for enhanced photocatalytic hydrogen evolution. Chemical Engineering Journal, 2021, 417, 127900.	12.7	23
117	Cationic Alternating Polypeptide Fixed on Polyurethane at Multiple Sites for Excellent Antibacterial and Antifouling Properties. Langmuir, 2021, 37, 10657-10667.	3.5	10
118	Three-dimensional nano/micro-structured porous MoP/CNTs microspheres as high-capacity anode for lithium-ion batteries. Journal of Alloys and Compounds, 2021, 872, 159608.	5.5	7
119	High efficient co-doping in plasma electrolytic oxidation to obtain long-term self-lubrication on Ti6Al4V. Tribology International, 2021, 160, 107018.	5.9	9
120	Regulation of extracellular bioactive cations in bone tissue microenvironment induces favorable osteoimmune conditions to accelerate in situ bone regeneration. Bioactive Materials, 2021, 6, 2315-2330.	15.6	69
121	Subsurface intercalation activating basal plane of black phosphorus for nitrogen reduction. Journal of Energy Chemistry, 2021, 60, 293-299.	12.9	8
122	Morphological modulation of cobalt selenide on carbon cloth by Ni doping for high-performance electrodes in supercapacitors. Colloids and Surfaces A: Physicochemical and Engineering Aspects, 2021, 624, 126818.	4.7	27
123	Fabrication of Bimetallic Oxides (MCo2O4: M=Cu, Mn) on Ordered Microchannel Electro-Conductive Plate for High-Performance Hybrid Supercapacitors. Sustainability, 2021, 13, 9896.	3.2	11
124	Porous manganese dioxide nanosheets on modified graphite felt for cathodes in high-capacity flexible Zinc-MnO2 batteries. Vacuum, 2021, 191, 110353.	3.5	10
125	Enhancement of unidirectional forward scattering and suppression of backward scattering in hollow silicon nanoblocks. Applied Optics, 2021, 60, 8737.	1.8	1
126	Degradation of tetracycline in water by gasâ€“liquid plasma in conjunction with rGO-TiO₂ nanocomposite. Plasma Science and Technology, 2021, 23, 115503.	1.5	5

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127	High-sensitivity methane sensor composed of photonic quasi-crystal fiber based on surface plasmon resonance. Journal of the Optical Society of America A: Optics and Image Science, and Vision, 2021, 38, 1438.	1.5	11
128	Plasma-activated thermosensitive biogel as an exogenous ROS carrier for post-surgical treatment of cancer. Biomaterials, 2021, 276, 121057.	11.4	37
129	Insights into enhancement of photocatalytic properties of g-C3N4 by local electric field induced by polarization of MgO(111). Journal of Environmental Chemical Engineering, 2021, 9, 105922.	6.7	13
130	In vitro and in vivo antibacterial performance of Zr & O PIII magnesium alloys with high concentration of oxygen vacancies. Bioactive Materials, 2021, 6, 3049-3061.	15.6	12
131	Waste-glass-derived silicon/CNTs composite with strong Si-C covalent bonding for advanced anode materials in lithium-ion batteries. Applied Surface Science, 2021, 563, 150280.	6.1	25
132	Development and application of fuel cells in the automobile industry. Journal of Energy Storage, 2021, 42, 103124.	8.1	91
133	Experimental and theoretical investigation of reconstruction and active phases on honeycombed Ni3N-Co3N/C in water splitting. Applied Catalysis B: Environmental, 2021, 297, 120461.	20.2	62
134	A high-performance electrocatalyst composed of nickel clusters encapsulated with a carbon network on TiN nanaowire arrays for the oxygen evolution reaction. Applied Surface Science, 2021, 567, 150779.	6.1	25
135	Hybrid photovoltaic-triboelectric nanogenerators for simultaneously harvesting solar and mechanical energies. Nano Energy, 2021, 89, 106376.	16.0	31
136	Co-doped Ni3S2 porous nanocones as high-performance bifunctional electrocatalysts in water splitting. Chemical Engineering Journal, 2021, 425, 130455.	12.7	42
137	A water-soluble membrane for SARS-CoV-2 viral nucleic acid sampling and detection. Nanoscale, 2021, 13, 18084-18088.	5.6	1
138	MXene Coatings: Novel Hydrogen Permeation Barriers for Pipe Steels. Nanomaterials, 2021, 11, 2737.	4.1	9
139	Activating Carbon Nitride by BP@Ni for the Enhanced Photocatalytic Hydrogen Evolution and Selective Benzyl Alcohol Oxidation. ACS Applied Materials & Interfaces, 2021, 13, 50988-50995.	8.0	14
140	ZnL₂-BPs Integrated Bone Scaffold under Sequential Photothermal Mediation: A Winâ€“Win Strategy Delivering Antibacterial Therapy and Fostering Osteogenesis Thereafter. ACS Nano, 2021, 15, 17854-17869.	14.6	85
141	Efficient photonic crystal fiber polarization splitters composed of gallium arsenide and nematic liquid crystals. Modern Physics Letters B, 2021, 35, 2150077.	1.9	2
142	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. Optics Express, 2021, 29, 40734.	3.4	68
143	Efficient coupling of MnO₂/TiN on carbon cloth positive electrode and Fe₂O₃/TiN on carbon cloth negative electrode for flexible ultra-fast hybrid supercapacitors. RSC Advances, 2021, 11, 35726-35736.	3.6	8
144	Graphene for Energy Storage and Conversion: Synthesis and Interdisciplinary Applications. Electrochemical Energy Reviews, 2020, 3, 395-430.	25.5	59

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145	Synthesis of tetragonal prismatic Î³-In2Se3 nanostructures with predominantly {110} facets and photocatalytic degradation of tetracycline. Applied Catalysis B: Environmental, 2020, 260, 118218.	20.2	65
146	Corrosion behavior of functionally graded and self-healing nanostructured TiO2â€“Al2O3 - Benzotriazole coatings deposited on AA 2024-T3 by the sol-gel method. Materials Chemistry and Physics, 2020, 240, 122233.	4.0	23
147	Fundamentals and applications of surface-enhanced Raman spectroscopyâ€“based biosensors. Current Opinion in Biomedical Engineering, 2020, 13, 51-59.	3.4	82
148	Reconstructed chitosan with alkylamine for enhanced gene delivery by promoting endosomal escape. Carbohydrate Polymers, 2020, 227, 115339.	10.2	31
149	A bifunctional hydrogel incorporated with CuS@MoS2 microspheres for disinfection and improved wound healing. Chemical Engineering Journal, 2020, 382, 122849.	12.7	124
150	Modulation of the mechanosensing of mesenchymal stem cells by laser-induced patterning for the acceleration of tissue reconstruction through the Wnt/Î²-catenin signaling pathway activation. Acta Biomaterialia, 2020, 101, 152-167.	8.3	51
151	EIS and noise study of zirconia-alumina- benzotriazole nano-composite coating applied on Al2024 by the sol-gel method. Journal of Alloys and Compounds, 2020, 816, 152662.	5.5	11
152	Selfâ€Regulated Superâ€Hydrophobic Cu/CuO Electrode Film Deposited by Oneâ€Step Highâ€Power Sputtering. Advanced Electronic Materials, 2020, 6, 1900891.	5.1	10
153	Ultrathin carbon layer-encapsulated TiN nanotubes array with enhanced capacitance and electrochemical stability for supercapacitors. Applied Surface Science, 2020, 503, 144293.	6.1	19
154	Nonleaching Antibacterial Concept Demonstrated by In Situ Construction of 2D Nanoflakes on Magnesium. Advanced Science, 2020, 7, 1902089.	11.2	39
155	Graphite felt incorporated with MoS2/rGO for electrochemical detoxification of high-arsenic fly ash. Chemical Engineering Journal, 2020, 382, 122763.	12.7	20
156	Modeling and plasma characteristics of high-power direct current discharge. Plasma Sources Science and Technology, 2020, 29, 025016.	3.1	13
157	Dual light-induced in situ antibacterial activities of biocompatibleTiO₂/MoS₂/PDA/RGD nanorod arrays on titanium. Biomaterials Science, 2020, 8, 391-404.	5.4	44
158	Rapid and scalable production of high-quality phosphorene by plasmaâ€“liquid technology. Chemical Communications, 2020, 56, 221-224.	4.1	24
159	A hybrid Co NPs@CNT nanocomposite as highly efficient electrocatalyst for oxygen evolution reaction. Applied Surface Science, 2020, 507, 145155.	6.1	34
160	Atomic-Scale Intercalation of Graphene Layers into MoSe₂ Nanoflower Sheets as a Highly Efficient Catalyst for Hydrogen Evolution Reaction. ACS Applied Materials & Interfaces, 2020, 12, 2460-2468.	8.0	47
161	In situ formation of N-doped carbon-coated porous MoP nanowires: a highly efficient electrocatalyst for hydrogen evolution reaction in a wide pH range. Applied Catalysis B: Environmental, 2020, 263, 118358.	20.2	112
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