

Yan-Qin Liang

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152
papers

4,584
citations

41
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61
g-index

158
ext. papers

6,742
ext. citations

10.4
avg, IF

6.19
L-index

#	Paper	IF	Citations
152	Zinc-doped Prussian blue enhances photothermal clearance of Staphylococcus aureus and promotes tissue repair in infected wounds. <i>Nature Communications</i> , 2019 , 10, 4490	17.4	170
151	High rate and long cycle life porous carbon nanofiber paper anodes for potassium-ion batteries. <i>Journal of Materials Chemistry A</i> , 2017 , 5, 19237-19244	13	159
150	Highly Effective and Noninvasive Near-Infrared Eradication of a Biofilm on Implants by a Photoresponsive Coating within 20 Min. <i>Advanced Science</i> , 2019 , 6, 1900599	13.6	142
149	Enhanced photocatalytic activity and photothermal effects of Cu-doped metal-organic frameworks for rapid treatment of bacteria-infected wounds. <i>Applied Catalysis B: Environmental</i> , 2020 , 261, 118248	21.8	140
148	Synthesis of Cu ₂ O Octadecahedron/TiO ₂ Quantum Dot Heterojunctions with High Visible Light Photocatalytic Activity and High Stability. <i>ACS Applied Materials & Interfaces</i> , 2016 , 8, 91-101	9.5	107
147	Rapid and Superior Bacteria Killing of Carbon Quantum Dots/ZnO Decorated Injectable Folic Acid-Conjugated PDA Hydrogel through Dual-Light Triggered ROS and Membrane Permeability. <i>Small</i> , 2019 , 15, e1900322	11	105
146	Rapid Photo-Sonotherapy for Clinical Treatment of Bacterial Infected Bone Implants by Creating Oxygen Deficiency Using Sulfur Doping. <i>ACS Nano</i> , 2020 , 14, 2077-2089	16.7	98
145	The recent progress on metal-organic frameworks for phototherapy. <i>Chemical Society Reviews</i> , 2021 , 50, 5086-5125	58.5	96
144	Nanoporous CuS with excellent photocatalytic property. <i>Scientific Reports</i> , 2015 , 5, 18125	4.9	93
143	Photo-responsive chitosan/Ag/MoS for rapid bacteria-killing. <i>Journal of Hazardous Materials</i> , 2020 , 383, 121122	12.8	91
142	Local Photothermal/Photodynamic Synergistic Therapy by Disrupting Bacterial Membrane To Accelerate Reactive Oxygen Species Permeation and Protein Leakage. <i>ACS Applied Materials & Interfaces</i> , 2019 , 11, 17902-17914	9.5	88
141	Interfacial engineering of BiS/TiCT MXene based on work function for rapid photo-excited bacteria-killing. <i>Nature Communications</i> , 2021 , 12, 1224	17.4	82
140	Incorporation of silver and strontium in hydroxyapatite coating on titanium surface for enhanced antibacterial and biological properties. <i>Materials Science and Engineering C</i> , 2017 , 71, 852-861	8.3	81
139	Eradicating Multidrug-Resistant Bacteria Rapidly Using a Multi Functional g-C ₃ N ₄ @ Bi ₂ S ₃ Nanorod Heterojunction with or without Antibiotics. <i>Advanced Functional Materials</i> , 2019 , 29, 1900946	15.6	79
138	Treatment of MRSA-infected osteomyelitis using bacterial capturing, magnetically targeted composites with microwave-assisted bacterial killing. <i>Nature Communications</i> , 2020 , 11, 4446	17.4	79
137	Defect enhances photocatalytic activity of ultrathin TiO ₂ (B) nanosheets for hydrogen production by plasma engraving method. <i>Applied Catalysis B: Environmental</i> , 2018 , 230, 11-17	21.8	78
136	A nanoporous metal phosphide catalyst for bifunctional water splitting. <i>Journal of Materials Chemistry A</i> , 2018 , 6, 5574-5579	13	76

135	Strontium incorporation to optimize the antibacterial and biological characteristics of silver-substituted hydroxyapatite coating. <i>Materials Science and Engineering C</i> , 2016 , 58, 467-77	8.3	73
134	The enhanced photocatalytic properties of MnO/g-CN heterostructure for rapid sterilization under visible light. <i>Journal of Hazardous Materials</i> , 2019 , 377, 227-236	12.8	73
133	Near-Infrared Light Triggered Phototherapy and Immunotherapy for Elimination of Methicillin-Resistant Biofilm Infection on Bone Implant. <i>ACS Nano</i> , 2020 , 14, 8157-8170	16.7	67
132	Dual Metal-Organic Framework Heterointerface. <i>ACS Central Science</i> , 2019 , 5, 1591-1601	16.8	65
131	Rapid and Highly Effective Noninvasive Disinfection by Hybrid Ag/CS@MnO Nanosheets Using Near-Infrared Light. <i>ACS Applied Materials & Interfaces</i> , 2019 , 11, 15014-15027	9.5	59
130	Controlled release behaviour and antibacterial effects of antibiotic-loaded titania nanotubes. <i>Materials Science and Engineering C</i> , 2016 , 62, 105-12	8.3	58
129	Visible light responsive CuS/ protonated g-CN heterostructure for rapid sterilization. <i>Journal of Hazardous Materials</i> , 2020 , 393, 122423	12.8	57
128	Superimposed surface plasma resonance effect enhanced the near-infrared photocatalytic activity of Au@BiWO coating for rapid bacterial killing. <i>Journal of Hazardous Materials</i> , 2019 , 380, 120818	12.8	50
127	Photoresponsive Materials for Antibacterial Applications. <i>Cell Reports Physical Science</i> , 2020 , 1, 100245	6.1	50
126	AgPO decorated black urchin-like defective TiO for rapid and long-term bacteria-killing under visible light. <i>Bioactive Materials</i> , 2021 , 6, 1575-1587	16.7	50
125	An amorphous nanoporous PdCuNi-S hybrid electrocatalyst for highly efficient hydrogen production. <i>Applied Catalysis B: Environmental</i> , 2019 , 246, 156-165	21.8	49
124	Lysozyme-Assisted Photothermal Eradication of Methicillin-Resistant Infection and Accelerated Tissue Repair with Natural Melanosome Nanostructures. <i>ACS Nano</i> , 2019 , 13, 11153-11167	16.7	49
123	Enhanced photocatalytic and photothermal properties of ecofriendly metal-organic framework heterojunction for rapid sterilization. <i>Chemical Engineering Journal</i> , 2021 , 405, 126730	14.7	49
122	Light-Activated Rapid Disinfection by Accelerated Charge Transfer in Red Phosphorus/ZnO Heterointerface. <i>Small Methods</i> , 2019 , 3, 1900048	12.8	48
121	Photothermy-strengthened photocatalytic activity of polydopamine-modified metal-organic frameworks for rapid therapy of bacteria-infected wounds. <i>Journal of Materials Science and Technology</i> , 2021 , 62, 83-95	9.1	48
120	Synthesis, characterization and the formation mechanism of magnesium- and strontium-substituted hydroxyapatite. <i>Journal of Materials Chemistry B</i> , 2015 , 3, 3738-3746	7.3	47
119	A highly efficient electrocatalyst based on amorphous PdCuS material for hydrogen evolution reaction. <i>Journal of Materials Chemistry A</i> , 2017 , 5, 18793-18800	13	47
118	Rapid Biofilm Elimination on Bone Implants Using Near-Infrared-Activated Inorganic Semiconductor Heterostructures. <i>Advanced Healthcare Materials</i> , 2019 , 8, e1900835	10.1	44

117	Enhancing the antibacterial efficacy of low-dose gentamicin with 5 minute assistance of phototherapy at 50 °C. <i>Biomaterials Science</i> , 2019 , 7, 1437-1447	7.4	44
116	Ag ₂ [email[protected]] ₂ Heterostructure for Rapid Bacteria-Killing Using Near-Infrared Light. <i>ACS Sustainable Chemistry and Engineering</i> , 2019 , 7, 14982-14990	8.3	44
115	In-situ sulfuration of Cu-based metal-organic framework for rapid near-infrared light sterilization. <i>Journal of Hazardous Materials</i> , 2020 , 390, 122126	12.8	43
114	Free-standing amorphous nanoporous nickel cobalt phosphide prepared by electrochemically dealloying process as a high performance energy storage electrode material. <i>Energy Storage Materials</i> , 2019 , 17, 300-308	19.4	41
113	Synthesis of nanoporous CuO/TiO ₂ /Pd-NiO composite catalysts by chemical dealloying and their performance for methanol and ethanol electro-oxidation. <i>Journal of Power Sources</i> , 2017 , 362, 10-19	8.9	41
112	Ultrasonic Interfacial Engineering of Red Phosphorous-Metal for Eradicating MRSA Infection Effectively. <i>Advanced Materials</i> , 2021 , 33, e2006047	24	41
111	AgBr Nanoparticles in Situ Growth on 2D MoS ₂ Nanosheets for Rapid Bacteria-Killing and Photodisinfection. <i>ACS Applied Materials & Interfaces</i> , 2019 , 11, 34364-34375	9.5	39
110	Near-infrared light photocatalysis and phototherapy of carbon quantum dots and au nanoparticles loaded titania nanotube array. <i>Materials and Design</i> , 2019 , 177, 107845	8.1	38
109	A Z-scheme heterojunction of ZnO/CDots/C ₃ N ₄ for strengthened photoresponsive bacteria-killing and acceleration of wound healing. <i>Journal of Materials Science and Technology</i> , 2020 , 57, 1-11	9.1	38
108	Ce and Er Co-doped TiO ₂ for rapid bacteria- killing using visible light. <i>Bioactive Materials</i> , 2020 , 5, 201-209	16.7	37
107	Single-Atom Catalysis for Efficient Sonodynamic Therapy of Methicillin-Resistant -Infected Osteomyelitis. <i>ACS Nano</i> , 2021 , 15, 10628-10639	16.7	37
106	3D microporous Co ₃ O ₄ -carbon hybrids biotemplated from butterfly wings as high performance VOCs gas sensor. <i>Sensors and Actuators B: Chemical</i> , 2016 , 235, 420-431	8.5	36
105	2D MOF Periodontitis Photodynamic Ion Therapy. <i>Journal of the American Chemical Society</i> , 2021 , 143, 15427-15439	16.4	36
104	Engineered probiotics biofilm enhances osseointegration via immunoregulation and anti-infection. <i>Science Advances</i> , 2020 , 6,	14.3	34
103	Rapid Sterilization by Photocatalytic Ag ₃ PO ₄ /Fe ₂ O ₃ Composites Using Visible Light. <i>ACS Sustainable Chemistry and Engineering</i> , 2020 , 8, 2577-2585	8.3	33
102	Modulation of the mechanosensing of mesenchymal stem cells by laser-induced patterning for the acceleration of tissue reconstruction through the Wnt/β-catenin signaling pathway activation. <i>Acta Biomaterialia</i> , 2020 , 101, 152-167	10.8	32
101	Eco-friendly Hybrids of Carbon Quantum Dots Modified MoS ₂ for Rapid Microbial Inactivation by Strengthened Photocatalysis. <i>ACS Sustainable Chemistry and Engineering</i> , 2020 , 8, 534-542	8.3	32
100	Ag ₂ S decorated nanocubes with enhanced near-infrared photothermal and photodynamic properties for rapid sterilization. <i>Colloids and Interface Science Communications</i> , 2019 , 33, 100201	5.4	31

99	An UV to NIR-driven platform based on red phosphorus/graphene oxide film for rapid microbial inactivation. <i>Chemical Engineering Journal</i> , 2020 , 383, 123088	14.7	31
98	The rapid photoresponsive bacteria-killing of Cu-doped MoS. <i>Biomaterials Science</i> , 2020 , 8, 4216-4224	7.4	30
97	Overcoming Multidrug-Resistant MRSA Using Conventional Aminoglycoside Antibiotics. <i>Advanced Science</i> , 2020 , 7, 1902070	13.6	30
96	An Engineered Pseudo-Macrophage for Rapid Treatment of Bacteria-Infected Osteomyelitis via Microwave-Excited Anti-Infection and Immunoregulation. <i>Advanced Materials</i> , 2021 , 33, e2102926	24	30
95	NiP nanoflakes for the high-performing urea oxidation reaction: linking active sites to a UOR mechanism. <i>Nanoscale</i> , 2021 , 13, 1759-1769	7.7	30
94	Two-Dimensional Lamellar MoC for Electrochemical Hydrogen Production: Insights into the Origin of Hydrogen Evolution Reaction Activity in Acidic and Alkaline Electrolytes. <i>ACS Applied Materials & Interfaces</i> , 2018 , 10, 40500-40508	9.5	28
93	Pd-loaded In ₂ O ₃ nanowire-like network synthesized using carbon nanotube templates for enhancing NO ₂ sensing performance. <i>RSC Advances</i> , 2015 , 5, 30038-30045	3.7	27
92	Photoelectric-Responsive Extracellular Matrix for Bone Engineering. <i>ACS Nano</i> , 2019 , 13, 13581-13594	16.7	27
91	Na ⁺ inserted metal-organic framework for rapid therapy of bacteria-infected osteomyelitis through microwave strengthened Fenton reaction and thermal effects. <i>Nano Today</i> , 2021 , 37, 101090	17.9	27
90	Near-infrared light controlled fast self-healing protective coating on magnesium alloy. <i>Corrosion Science</i> , 2020 , 163, 108257	6.8	27
89	Self-supported NiSe@NiFe layered double hydroxide bifunctional electrocatalyst for overall water splitting. <i>Journal of Colloid and Interface Science</i> , 2021 , 587, 79-89	9.3	27
88	Recent Progress in Photocatalytic Antibacterial.. <i>ACS Applied Bio Materials</i> , 2021 , 4, 3909-3936	4.1	27
87	Zn-assisted photothermal therapy for rapid bacteria-killing using biodegradable humic acid encapsulated MOFs. <i>Colloids and Surfaces B: Biointerfaces</i> , 2020 , 188, 110781	6	24
86	Enhancement of gas-sensing abilities in p-type ZnWO ₄ by local modification of Pt nanoparticles. <i>Analytica Chimica Acta</i> , 2016 , 927, 107-16	6.6	23
85	Antibacterial Hybrid Hydrogels. <i>Macromolecular Bioscience</i> , 2021 , 21, e2000252	5.5	23
84	A near infrared-activated photocatalyst based on elemental phosphorus by chemical vapor deposition. <i>Applied Catalysis B: Environmental</i> , 2019 , 258, 117980	21.8	22
83	Highly Efficient and Self-Standing Nanoporous NiO/Al ₃ Ni ₂ Electrocatalyst for Hydrogen Evolution Reaction. <i>ACS Applied Energy Materials</i> , 2019 , 2, 7913-7922	6.1	22
82	Rapid bacteria capturing and killing by AgNPs/N-CD@ZnO hybrids strengthened photo-responsive xerogel for rapid healing of bacteria-infected wounds. <i>Chemical Engineering Journal</i> , 2021 , 414, 128805	14.7	22

81	In situ synthesis of a novel MnO/g-CN p-n heterostructure photocatalyst for water splitting. <i>Journal of Colloid and Interface Science</i> , 2021 , 586, 778-784	9.3	22
80	Electronic Structure Modulation of Nanoporous Cobalt Phosphide by Carbon Doping for Alkaline Hydrogen Evolution Reaction. <i>Advanced Functional Materials</i> , 2107333	15.6	22
79	Self-supported Ni(OH) ₂ /MnO ₂ on CFP as a flexible anode towards electrocatalytic urea conversion: The role of composition on activity, redox states and reaction dynamics. <i>Electrochimica Acta</i> , 2019 , 318, 32-41	6.7	21
78	Synthesis, characterization and biological evaluation of strontium/magnesium-co-substituted hydroxyapatite. <i>Journal of Biomaterials Applications</i> , 2016 , 31, 140-51	2.9	20
77	Flower-like CuS/graphene oxide with photothermal and enhanced photocatalytic effect for rapid bacteria-killing using visible light. <i>Rare Metals</i> , 1	5.5	20
76	One-step synthesis of Mo and S co-doped porous g-C ₃ N ₄ nanosheets for efficient visible-light photocatalytic hydrogen evolution. <i>Applied Surface Science</i> , 2021 , 536, 147743	6.7	20
75	Highly efficient amorphous np-PdFePC catalyst for hydrogen evolution reaction. <i>Electrochimica Acta</i> , 2019 , 328, 135082	6.7	19
74	Eco-friendly and degradable red phosphorus nanoparticles for rapid microbial sterilization under visible light. <i>Journal of Materials Science and Technology</i> , 2021 , 67, 70-79	9.1	19
73	Photoelectrons Mediating Angiogenesis and Immunotherapy through Heterojunction Film for Noninvasive Disinfection. <i>Advanced Science</i> , 2020 , 7, 2000023	13.6	18
72	Preparation and electrocatalytic performance of nanoporous Pd/Sn and Pd/Sn-CuO composite catalysts. <i>Electrochimica Acta</i> , 2019 , 296, 397-406	6.7	17
71	Cobalt-iron (oxides) water oxidation catalysts: Tracking catalyst redox states and reaction dynamic mechanism. <i>Journal of Catalysis</i> , 2018 , 365, 227-237	7.3	16
70	Synthesis, Characterization, and Biological Evaluation of Nanostructured Hydroxyapatite with Different Dimensions. <i>Nanomaterials</i> , 2017 , 7,	5.4	15
69	Photo-Sono Interfacial Engineering Exciting the Intrinsic Property of Herbal Nanomedicine for Rapid Broad-Spectrum Bacteria Killing. <i>ACS Nano</i> , 2021 ,	16.7	15
68	Four-electron oxygen reduction from mesoporous carbon modified with Fe ₂ O ₃ nanocrystals. <i>Journal of Materials Science</i> , 2017 , 52, 10938-10947	4.3	14
67	Synthesis of Fe ₂ O ₃ /g-C ₃ N ₄ photocatalyst for high-efficiency water splitting under full light. <i>Materials and Design</i> , 2020 , 196, 109191	8.1	14
66	Structure engineering of electrodeposited NiMo films for highly efficient and durable seawater splitting. <i>Electrochimica Acta</i> , 2021 , 365, 137366	6.7	14
65	Preparation of TiC/Ti ₂ AlC coating on carbon fiber and investigation of the oxidation resistance properties. <i>Journal of the American Ceramic Society</i> , 2018 , 101, 5269-5280	3.8	14
64	Effects of hydrophobic layer on selective electrochemical nitrogen fixation of self-supporting nanoporous Mo ₄ P ₃ catalyst under ambient conditions. <i>Applied Catalysis B: Environmental</i> , 2021 , 286, 119895	21.8	13

63	Photo-controlled degradation of PLGA/TiC hybrid coating on Mg-Sr alloy using near infrared light. <i>Bioactive Materials</i> , 2021 , 6, 568-578	16.7	13
62	Free-standing ternary NiWP film for efficient water oxidation reaction. <i>Applied Surface Science</i> , 2018 , 434, 871-878	6.7	12
61	"Imitative" click chemistry to form a sticking xerogel for the portable therapy of bacteria-infected wounds. <i>Biomaterials Science</i> , 2019 , 7, 5383-5387	7.4	12
60	Noble metal-based nanomaterials as antibacterial agents. <i>Journal of Alloys and Compounds</i> , 2022 , 904, 164091	5.7	11
59	Self-activating anti-infection implant. <i>Nature Communications</i> , 2021 , 12, 6907	17.4	11
58	Nanoporous Nickel-Molybdenum Oxide with an Oxygen Vacancy for Electrocatalytic Nitrogen Fixation under Ambient Conditions. <i>ACS Applied Materials & Interfaces</i> , 2021 , 13, 30722-30730	9.5	11
57	Self-supporting amorphous nanoporous NiFeCoP electrocatalyst for efficient overall water splitting. <i>Journal of Materials Science and Technology</i> , 2021 , 82, 96-104	9.1	11
56	The enhanced near-infrared photocatalytic and photothermal effects of MXene-based heterojunction for rapid bacteria-killing. <i>Applied Catalysis B: Environmental</i> , 2021 , 297, 120500	21.8	11
55	In situ synthesis of exfoliation TiO ₂ @C hybrids with enhanced photocatalytic hydrogen evolution activity. <i>Applied Surface Science</i> , 2020 , 530, 147283	6.7	10
54	Spin State Tuning of the Octahedral Sites in Ni ^{II} O-Based Spinel toward Highly Efficient Urea Oxidation Reaction. <i>Journal of Physical Chemistry C</i> , 2021 , 125, 9190-9199	3.8	10
53	Highly efficient nanoporous CoBP electrocatalyst for hydrogen evolution reaction. <i>Rare Metals</i> , 2021 , 40, 1031-1039	5.5	10
52	Synthesis of Br-doped TiO ₂ hollow spheres with enhanced photocatalytic activity. <i>Journal of Nanoparticle Research</i> , 2017 , 19, 1	2.3	9
51	Enhancement of photocatalytic H ₂ production by metal complex electrostatic adsorption on TiO ₂ (B) nanosheets. <i>Journal of Materials Chemistry A</i> , 2019 , 7, 3797-3804	13	9
50	Self-organized nanotubular layer on Ti-4Zr-22Nb-2Sn alloys formed in organic electrolytes. <i>Journal of Materials Research</i> , 2009 , 24, 3647-3652	2.5	9
49	miR-21 promotes osseointegration and mineralization through enhancing both osteogenic and osteoclastic expression. <i>Materials Science and Engineering C</i> , 2020 , 111, 110785	8.3	8
48	Self-supporting CoMoC nanoporous catalysts for N ₂ reduction reaction under ambient conditions. <i>Applied Surface Science</i> , 2020 , 521, 146385	6.7	8
47	Nanosized strontium substituted hydroxyapatite prepared from egg shell for enhanced biological properties. <i>Journal of Biomaterials Applications</i> , 2018 , 32, 896-905	2.9	8
46	Fabrication, characterization, and photocatalytic properties of anatase TiO ₂ nanoplates with exposed {001} facets. <i>Journal of Nanoparticle Research</i> , 2014 , 16, 1	2.3	8

45	Rutile-Coated B-Phase TiO ₂ Heterojunction Nanobelts for Photocatalytic H ₂ Evolution. <i>ACS Applied Nano Materials</i> , 2020 , 3, 10349-10359	5.6	8
44	The Incorporation of Strontium in a Sodium Alginate Coating on Titanium Surfaces for Improved Biological Properties. <i>BioMed Research International</i> , 2017 , 2017, 9867819	3	7
43	The enhanced photocatalytic sterilization of MOF-Based nanohybrid for rapid and portable therapy of bacteria-infected open wounds.. <i>Bioactive Materials</i> , 2022 , 13, 200-211	16.7	7
42	Amorphous CoMoO ₄ with Nanoporous Structures for Electrochemical Ammonia Synthesis under Ambient Conditions. <i>ACS Sustainable Chemistry and Engineering</i> , 2020 , 8, 19072-19083	8.3	7
41	ZIF-67 derived Co@NC/g-CN as a photocatalyst for enhanced water splitting H evolution. <i>Environmental Research</i> , 2021 , 197, 111002	7.9	7
40	Interface modification of carbon fibers with TiC/Ti ₂ AlC coating and its effect on the tensile strength. <i>Ceramics International</i> , 2019 , 45, 4661-4666	5.1	7
39	Effects of both Sr and Mg substitution on compositions of biphasic calcium phosphate derived from hydrothermal method. <i>International Journal of Applied Ceramic Technology</i> , 2018 , 15, 210-222	2	7
38	Microwave assisted antibacterial action of Garcinia nanoparticles on Gram-negative bacteria.. <i>Nature Communications</i> , 2022 , 13, 2461	17.4	7
37	Rapid and highly effective bacteria-killing by polydopamine/IR780@MnO ₂ /Ti using near-infrared light. <i>Progress in Natural Science: Materials International</i> , 2020 , 30, 677-685	3.6	6
36	Oxygen Vacancies-Rich Heterojunction of TiC /BiOBr for Photo-Excited Antibacterial Textiles. <i>Small</i> , 2021 , e2104448	11	6
35	Tuning the Electron delocalization degree of mesoporous carbon for hydrogen peroxide electrochemical generation. <i>Journal of Catalysis</i> , 2020 , 392, 1-7	7.3	6
34	Synthesis of TiO ₂ Nanoparticles Loaded Pd/CuO Nanoporous Catalysts and Their Catalytic Performance for Methanol, Ethanol and Formic Acid Electro-Oxidations. <i>Journal of the Electrochemical Society</i> , 2016 , 163, E263-E271	3.9	6
33	Highly durable Cu ₂ Ni active sites towards efficient oxygen reduction for zinc-air battery: Carbon matrix effect, reaction mechanism and pathways. <i>Journal of Alloys and Compounds</i> , 2021 , 857, 158321	5.7	6
32	Material-herbology: An effective and safe strategy to eradicate lethal viral-bacterial pneumonia. <i>Matter</i> , 2021 , 4, 3030-3048	12.7	6
31	High-performance five-ring-fused organic semiconductors for field-effect transistors.. <i>Chemical Society Reviews</i> , 2022 ,	58.5	6
30	Tuning cobalt eg occupation of Co-NCNT by manipulation of crystallinity facilitates more efficient oxygen evolution and reduction. <i>Journal of Catalysis</i> , 2020 , 383, 221-229	7.3	5
29	Preparation of nanoporous Sn-doped TiO ₂ anode material for lithium-ion batteries by a simple dealloying method. <i>Ionics</i> , 2020 , 26, 4363-4372	2.7	5
28	Theory-screened MOF-based single-atom catalysts for facile and effective therapy of biofilm-induced periodontitis. <i>Chemical Engineering Journal</i> , 2021 , 431, 133279	14.7	5

27	Dual-phase nanostructuring as a route to flexible nanoporous metals with outstanding comprehensive mechanical properties. <i>Science China Materials</i> , 2021 , 64, 2289-2304	7.1	5
26	Self-supported amorphous nanoporous nickel-cobalt phosphide catalyst for hydrogen evolution reaction. <i>Progress in Natural Science: Materials International</i> , 2021 , 31, 201-206	3.6	5
25	Hierarchical Ni ₃ S ₄ @MoS ₂ nanocomposites as efficient electrocatalysts for hydrogen evolution reaction. <i>Journal of Materials Science and Technology</i> , 2021 ,	9.1	5
24	Photothermal-controlled sustainable degradation of protective coating modified Mg alloy using near-infrared light. <i>Rare Metals</i> , 2021 , 40, 2538-2551	5.5	5
23	The controllable preparation of Co ₃ O ₄ nanostructure for designing optimal mechanical and magnetic properties of graphite/kaolin based compounds. <i>Materials and Design</i> , 2018 , 143, 169-176	8.1	4
22	Unveiling the roles of multiple active sites during oxygen reduction reaction in Cr ₂ O ₃ @Cr-N-C composite catalyst. <i>Journal of Catalysis</i> , 2021 , 396, 402-408	7.3	4
21	Controlled and sustained drug release performance of calcium sulfate cement porous TiO microsphere composites. <i>International Journal of Nanomedicine</i> , 2018 , 13, 7491-7501	7.3	4
20	3D N-doped mesoporous carbon/SnO ₂ with polypyrrole coating layer as high-performance anode material for Li-ion batteries. <i>Journal of Alloys and Compounds</i> , 2022 , 892, 162083	5.7	4
19	Photocatalysis: Light-Activated Rapid Disinfection by Accelerated Charge Transfer in Red Phosphorus/ZnO Heterointerface (Small Methods 3/2019). <i>Small Methods</i> , 2019 , 3, 1970008	12.8	3
18	Photo-excited antibacterial poly(ε-caprolactone)@MoS ₂ /ZnS hybrid nanofibers. <i>Chemical Engineering Journal</i> , 2022 , 434, 134764	14.7	3
17	Amorphous FeNiNbPC nanoporous structure for efficient and stable electrochemical oxygen evolution. <i>Journal of Colloid and Interface Science</i> , 2021 , 608, 1973-1982	9.3	3
16	Simultaneously enhancing the photocatalytic and photothermal effect of NH-MIL-125-GO-Pt ternary heterojunction for rapid therapy of bacteria-infected wounds.. <i>Bioactive Materials</i> , 2022 , 18, 421-432	16.7	3
15	Activity descriptor identification for hydrogen evolution reaction on well-dispersed few layer MoS ₂ (O) nanosheets over the mesoporous carbonic arrays. <i>Journal of Alloys and Compounds</i> , 2020 , 842, 155744	5.7	2
14	Preparation of hydroxyapatite layer on Ti-based bulk metallic glasses by acid and alkali pre-treatment. <i>Rare Metals</i> , 2015 , 34, 22-27	5.5	2
13	Boosting oxygen reduction catalysis with abundant single atom tin active sites in zinc-air battery. <i>Journal of Power Sources</i> , 2021 , 490, 229483	8.9	2
12	Recent progress of photo-excited antibacterial materials via chemical vapor deposition. <i>Chemical Engineering Journal</i> , 2022 , 437, 135401	14.7	2
11	Surface photodynamic ion sterilization of ITO-Cu ₂ O/ZnO preventing touch infection. <i>Journal of Materials Science and Technology</i> , 2022 , 122, 10-19	9.1	2
10	Formation and evolution of black silicon microcolumns with array distribution after IR nanosecond-pulsed laser ablation. <i>Ferroelectrics</i> , 2018 , 528, 51-57	0.6	1

9	Enhanced Electrocatalysis for Hydrogen Evolution over a Nanoporous NiAlTi/Al ₃ Ti Hybrid. <i>ACS Applied Energy Materials</i> , 2021 , 4, 7579-7588	6.1	1
8	Zr ₅₅ Al ₁₀ Ni ₅ Cu ₃₀ amorphous alloy film prepared by magnetron sputtering method. <i>Rare Metals</i> , 2021 , 40, 2237-2243	5.5	1
7	A self-supported FeNi layered double hydroxide anode with high activity and long-term stability for efficient oxygen evolution reaction. <i>Sustainable Energy and Fuels</i> , 2021 , 5, 3205-3212	5.8	1
6	Nanoporous Ni/NiO catalyst for efficient hydrogen evolution reaction prepared by partial electro-oxidation after dealloying. <i>Journal of Alloys and Compounds</i> , 2022 , 165061	5.7	1
5	Preparation and physicochemical properties of an injectable alginate-based hydrogel by the regulated release of divalent ions via the hydrolysis of d-glucono-lactone. <i>Journal of Biomaterials Applications</i> , 2020 , 34, 891-901	2.9	0
4	Synthesis of polyaluminocarborasilane with low branched molecular structure using liquid polysilacarborasilane and aluminum acetylacetonate by high-pressure method. <i>Applied Organometallic Chemistry</i> , 2018 , 33, e4720	3.1	0
3	Corrosion behavior of 316 stainless steel, copper, and brazed joint in lithium bromide solution at different temperatures. <i>Materialpruefung/Materials Testing</i> , 2022 , 64, 67-77	1.9	0
2	Electrodeposition of self-supported NiMo amorphous coating as an efficient and stable catalyst for hydrogen evolution reaction. <i>Rare Metals</i> , 1	5.5	0
1	A Three-Dimensional Cement Quantification Method for Decision Prediction of Vertebral Recompression after Vertebroplasty. <i>Computational and Mathematical Methods in Medicine</i> , 2022 , 2022, 1-14	2.8	