

Yan-Qin Liang

List of Publications by Year in descending order

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156
papers

9,090
citations

26567

56
h-index

49773

87
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158
all docs

158
docs citations

158
times ranked

7693
citing authors

#	ARTICLE	IF	CITATIONS
1	Zinc-doped Prussian blue enhances photothermal clearance of <i>Staphylococcus aureus</i> and promotes tissue repair in infected wounds. <i>Nature Communications</i> , 2019, 10, 4490.	5.8	306
2	Interfacial engineering of Bi ₂ S ₃ /Ti ₃ C ₂ T _x MXene based on work function for rapid photo-excited bacteria-killing. <i>Nature Communications</i> , 2021, 12, 1224.	5.8	283
3	The recent progress on metal-organic frameworks for phototherapy. <i>Chemical Society Reviews</i> , 2021, 50, 5086-5125.	18.7	262
4	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.	10.8	255
5	Highly Effective and Noninvasive Near-Infrared Eradication of a <i>Staphylococcus aureus</i> Biofilm on Implants by a Photoresponsive Coating within 20 Min. <i>Advanced Science</i> , 2019, 6, 1900599.	5.6	212
6	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.	5.2	195
7	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.	7.3	182
8	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.	5.2	180
9	Treatment of MRSA-infected osteomyelitis using bacterial capturing, magnetically targeted composites with microwave-assisted bacterial killing. <i>Nature Communications</i> , 2020, 11, 4446.	5.8	165
10	2D MOF Periodontitis Photodynamic Ion Therapy. <i>Journal of the American Chemical Society</i> , 2021, 143, 15427-15439.	6.6	161
11	Photo-responsive chitosan/Ag/MoS ₂ for rapid bacteria-killing. <i>Journal of Hazardous Materials</i> , 2020, 383, 121122.	6.5	153
12	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.	4.0	149
13	Single-Atom Catalysis for Efficient Sonodynamic Therapy of Methicillin-Resistant <i>Staphylococcus aureus</i> -Infected Osteomyelitis. <i>ACS Nano</i> , 2021, 15, 10628-10639.	7.3	144
14	Eradicating Multidrug-Resistant Bacteria Rapidly Using a Multi Functional C ₃ N ₄ @ Bi ₂ S ₃ Nanorod Heterojunction with or without Antibiotics. <i>Advanced Functional Materials</i> , 2019, 29, 1900946.	7.8	136
15	Near-Infrared Light Triggered Phototherapy and Immunotherapy for Elimination of Methicillin-Resistant <i>Staphylococcus aureus</i> Biofilm Infection on Bone Implant. <i>ACS Nano</i> , 2020, 14, 8157-8170.	7.3	133
16	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.	4.0	132
17	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.	10.8	125
18	The enhanced photocatalytic properties of MnO ₂ /g-C ₃ N ₄ heterostructure for rapid sterilization under visible light. <i>Journal of Hazardous Materials</i> , 2019, 377, 227-236.	6.5	122

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19	Nanoporous CuS with excellent photocatalytic property. <i>Scientific Reports</i> , 2016, 5, 18125.	1.6	117
20	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.	3.8	116
21	Visible light responsive CuS/ protonated g-C ₃ N ₄ heterostructure for rapid sterilization. <i>Journal of Hazardous Materials</i> , 2020, 393, 122423.	6.5	116
22	Dual Metal-Organic Framework Heterointerface. <i>ACS Central Science</i> , 2019, 5, 1591-1601.	5.3	108
23	A nanoporous metal phosphide catalyst for bifunctional water splitting. <i>Journal of Materials Chemistry A</i> , 2018, 6, 5574-5579.	5.2	106
24	Ni ₂ P nanoflakes for the high-performing urea oxidation reaction: linking active sites to a UOR mechanism. <i>Nanoscale</i> , 2021, 13, 1759-1769.	2.8	106
25	Antibacterial Hybrid Hydrogels. <i>Macromolecular Bioscience</i> , 2021, 21, e2000252.	2.1	105
26	Enhanced photocatalytic and photothermal properties of ecofriendly metal-organic framework heterojunction for rapid sterilization. <i>Chemical Engineering Journal</i> , 2021, 405, 126730.	6.6	104
27	Electronic Structure Modulation of Nanoporous Cobalt Phosphide by Carbon Doping for Alkaline Hydrogen Evolution Reaction. <i>Advanced Functional Materials</i> , 2021, 31, 2107333.	7.8	104
28	Photoresponsive Materials for Antibacterial Applications. <i>Cell Reports Physical Science</i> , 2020, 1, 100245.	2.8	102
29	Recent Progress in Photocatalytic Antibacterial. <i>ACS Applied Bio Materials</i> , 2021, 4, 3909-3936.	2.3	100
30	Ultrasonic Interfacial Engineering of Red Phosphorous Metal for Eradicating MRSA Infection Effectively. <i>Advanced Materials</i> , 2021, 33, e2006047.	11.1	93
31	Strontium incorporation to optimize the antibacterial and biological characteristics of silver-substituted hydroxyapatite coating. <i>Materials Science and Engineering C</i> , 2016, 58, 467-477.	3.8	91
32	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.	5.6	91
33	Self-supported Ni ₃ Se ₂ @NiFe layered double hydroxide bifunctional electrocatalyst for overall water splitting. <i>Journal of Colloid and Interface Science</i> , 2021, 587, 79-89.	5.0	89
34	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.	11.1	87
35	Rapid and Highly Effective Noninvasive Disinfection by Hybrid Ag/CS@MnO ₂ Nanosheets Using Near-Infrared Light. <i>ACS Applied Materials & Interfaces</i> , 2019, 11, 15014-15027.	4.0	86
36	Superimposed surface plasma resonance effect enhanced the near-infrared photocatalytic activity of Au@Bi ₂ WO ₆ coating for rapid bacterial killing. <i>Journal of Hazardous Materials</i> , 2019, 380, 120818.	6.5	85

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37	Ag ₃ PO ₄ decorated black urchin-like defective TiO ₂ for rapid and long-term bacteria-killing under visible light. <i>Bioactive Materials</i> , 2021, 6, 1575-1587.	8.6	85
38	Engineered probiotics biofilm enhances osseointegration via immunoregulation and anti-infection. <i>Science Advances</i> , 2020, 6, .	4.7	82
39	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.	6.2	77
40	Self-activating anti-infection implant. <i>Nature Communications</i> , 2021, 12, 6907.	5.8	77
41	Controlled release behaviour and antibacterial effects of antibiotic-loaded titania nanotubes. <i>Materials Science and Engineering C</i> , 2016, 62, 105-112.	3.8	76
42	An amorphous nanoporous PdCuNi-S hybrid electrocatalyst for highly efficient hydrogen production. <i>Applied Catalysis B: Environmental</i> , 2019, 246, 156-165.	10.8	75
43	Lysozyme-Assisted Photothermal Eradication of Methicillin-Resistant <i>Staphylococcus aureus</i> Infection and Accelerated Tissue Repair with Natural Melanosome Nanostructures. <i>ACS Nano</i> , 2019, 13, 11153-11167.	7.3	74
44	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.	5.6	74
45	In-situ sulfuration of Cu-based metal-organic framework for rapid near-infrared light sterilization. <i>Journal of Hazardous Materials</i> , 2020, 390, 122126.	6.5	72
46	Rapid Biofilm Elimination on Bone Implants Using Near-Infrared-Activated Inorganic Semiconductor Heterostructures. <i>Advanced Healthcare Materials</i> , 2019, 8, e1900835.	3.9	71
47	A highly efficient electrocatalyst based on amorphous Pd-Cu-S material for hydrogen evolution reaction. <i>Journal of Materials Chemistry A</i> , 2017, 5, 18793-18800.	5.2	70
48	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.	10.8	68
49	Ag ₂ S@WS ₂ Heterostructure for Rapid Bacteria-Killing Using Near-Infrared Light. <i>ACS Sustainable Chemistry and Engineering</i> , 2019, 7, 14982-14990.	3.2	67
50	Light-Activated Rapid Disinfection by Accelerated Charge Transfer in Red Phosphorus/ZnO Heterointerface. <i>Small Methods</i> , 2019, 3, 1900048.	4.6	64
51	Synthesis, characterization and the formation mechanism of magnesium- and strontium-substituted hydroxyapatite. <i>Journal of Materials Chemistry B</i> , 2015, 3, 3738-3746.	2.9	63
52	Ce and Er Co-doped TiO ₂ for rapid bacteria- killing using visible light. <i>Bioactive Materials</i> , 2020, 5, 201-209.	8.6	61
53	Flower-like CuS/graphene oxide with photothermal and enhanced photocatalytic effect for rapid bacteria-killing using visible light. <i>Rare Metals</i> , 2022, 41, 639-649.	3.6	61
54	Photo-Sono Interfacial Engineering Exciting the Intrinsic Property of Herbal Nanomedicine for Rapid Broad-Spectrum Bacteria Killing. <i>ACS Nano</i> , 2021, 15, 18505-18519.	7.3	61

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55	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.	9.5	60
56	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.	4.0	58
57	The rapid photoresponsive bacteria-killing of Cu-doped MoS ₂ . <i>Biomaterials Science</i> , 2020, 8, 4216-4224.	2.6	57
58	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.	4.0	56
59	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.	2.6	56
60	Noble metal-based nanomaterials as antibacterial agents. <i>Journal of Alloys and Compounds</i> , 2022, 904, 164091.	2.8	56
61	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.	3.3	55
62	Near-infrared light controlled fast self-healing protective coating on magnesium alloy. <i>Corrosion Science</i> , 2020, 163, 108257.	3.0	55
63	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.	3.1	55
64	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.	3.2	53
65	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.	3.2	53
66	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.	6.6	52
67	In situ synthesis of a novel Mn ₃ O ₄ /g-C ₃ N ₄ p-n heterostructure photocatalyst for water splitting. <i>Journal of Colloid and Interface Science</i> , 2021, 586, 778-784.	5.0	52
68	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.	4.0	51
69	Photoelectric-Responsive Extracellular Matrix for Bone Engineering. <i>ACS Nano</i> , 2019, 13, 13581-13594.	7.3	51
70	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. <i>Acta Biomaterialia</i> , 2020, 101, 152-167.	4.1	51
71	Photoelectrons Mediating Angiogenesis and Immunotherapy through Heterojunction Film for Noninvasive Disinfection. <i>Advanced Science</i> , 2020, 7, 2000023.	5.6	51
72	Overcoming Multidrug-Resistant MRSA Using Conventional Aminoglycoside Antibiotics. <i>Advanced Science</i> , 2020, 7, 1902070.	5.6	49

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73	High-performance five-ring-fused organic semiconductors for field-effect transistors. <i>Chemical Society Reviews</i> , 2022, 51, 3071-3122.	18.7	49
74	Microwave assisted antibacterial action of Garcinia nanoparticles on Gram-negative bacteria. <i>Nature Communications</i> , 2022, 13, 2461.	5.8	49
75	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.	8.6	47
76	Structure engineering of electrodeposited NiMo films for highly efficient and durable seawater splitting. <i>Electrochimica Acta</i> , 2021, 365, 137366.	2.6	45
77	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.	2.0	44
78	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.	6.6	44
79	Synthesis of γ -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.	3.3	43
80	Highly efficient nanoporous CoBP electrocatalyst for hydrogen evolution reaction. <i>Rare Metals</i> , 2021, 40, 1031-1039.	3.6	42
81	Simultaneously enhancing the photocatalytic and photothermal effect of NH ₂ -MIL-125-GO-Pt ternary heterojunction for rapid therapy of bacteria-infected wounds. <i>Bioactive Materials</i> , 2022, 18, 421-432.	8.6	42
82	Zn ²⁺ -assisted photothermal therapy for rapid bacteria-killing using biodegradable humic acid encapsulated MOFs. <i>Colloids and Surfaces B: Biointerfaces</i> , 2020, 188, 110781.	2.5	41
83	Self-supporting amorphous nanoporous NiFeCoP electrocatalyst for efficient overall water splitting. <i>Journal of Materials Science and Technology</i> , 2021, 82, 96-104.	5.6	40
84	Two-Dimensional Lamellar Mo ₂ C 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.	4.0	38
85	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.	2.5	38
86	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.	10.8	37
87	Highly efficient amorphous np-PdFePC catalyst for hydrogen evolution reaction. <i>Electrochimica Acta</i> , 2019, 328, 135082.	2.6	35
88	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.	4.0	34
89	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.	2.6	33
90	Hierarchical Ni ₃ S ₄ @MoS ₂ nanocomposites as efficient electrocatalysts for hydrogen evolution reaction. <i>Journal of Materials Science and Technology</i> , 2021, 95, 70-77.	5.6	32

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91	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.	5.6	31
92	Theory-screened MOF-based single-atom catalysts for facile and effective therapy of biofilm-induced periodontitis. <i>Chemical Engineering Journal</i> , 2022, 431, 133279.	6.6	31
93	Oxygen Vacancies-Rich Heterojunction of $Ti_{3}C_{2}/BiOBr$ for Photo-Excited Antibacterial Textiles. <i>Small</i> , 2022, 18, e2104448.	5.2	31
94	A near infrared-activated photocatalyst based on elemental phosphorus by chemical vapor deposition. <i>Applied Catalysis B: Environmental</i> , 2019, 258, 117980.	10.8	30
95	Photo-controlled degradation of PLGA/ $Ti_{3}C_{2}$ hybrid coating on Mg-Sr alloy using near infrared light. <i>Bioactive Materials</i> , 2021, 6, 568-578.	8.6	30
96	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.	1.7	29
97	Electrodeposition of self-supported NiMo amorphous coating as an efficient and stable catalyst for hydrogen evolution reaction. <i>Rare Metals</i> , 2022, 41, 2624-2632.	3.6	29
98	Cobalt-iron (oxides) water oxidation catalysts: Tracking catalyst redox states and reaction dynamic mechanism. <i>Journal of Catalysis</i> , 2018, 365, 227-237.	3.1	28
99	Synthesis, characterization and biological evaluation of strontium/magnesium-co-substituted hydroxyapatite. <i>Journal of Biomaterials Applications</i> , 2016, 31, 140-151.	1.2	27
100	Self-supported amorphous nanoporous nickel-cobalt phosphide catalyst for hydrogen evolution reaction. <i>Progress in Natural Science: Materials International</i> , 2021, 31, 201-206.	1.8	27
101	Enhancement of gas-sensing abilities in p-type $ZnWO_{4}$ by local modification of Pt nanoparticles. <i>Analytica Chimica Acta</i> , 2016, 927, 107-116.	2.6	26
102	miR-21 promotes osseointegration and mineralization through enhancing both osteogenic and osteoclastic expression. <i>Materials Science and Engineering C</i> , 2020, 111, 110785.	3.8	25
103	Spin State Tuning of the Octahedral Sites in Ni-Co-Based Spinel toward Highly Efficient Urea Oxidation Reaction. <i>Journal of Physical Chemistry C</i> , 2021, 125, 9190-9199.	1.5	25
104	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.	1.9	23
105	Preparation and electrocatalytic performance of nanoporous Pd/Sn and Pd/Sn-CuO composite catalysts. <i>Electrochimica Acta</i> , 2019, 296, 397-406.	2.6	22
106	In situ synthesis of exfoliation $TiO_{2}@C$ hybrids with enhanced photocatalytic hydrogen evolution activity. <i>Applied Surface Science</i> , 2020, 530, 147283.	3.1	22
107	Synthesis, Characterization, and Biological Evaluation of Nanostructured Hydroxyapatite with Different Dimensions. <i>Nanomaterials</i> , 2017, 7, 38.	1.9	21
108	ZIF-67 derived $Co@NC/g-C_{3}N_{4}$ as a photocatalyst for enhanced water splitting H_{2} evolution. <i>Environmental Research</i> , 2021, 197, 111002.	3.7	21

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109	Material-herbology: An effective and safe strategy to eradicate lethal viral-bacterial pneumonia. <i>Matter</i> , 2021, 4, 3030-3048.	5.0	20
110	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.	2.8	20
111	Self-supporting nanoporous CoMoP electrocatalyst for hydrogen evolution reaction in alkaline solution. <i>Journal of Colloid and Interface Science</i> , 2022, 625, 606-613.	5.0	20
112	Nanosized strontium substituted hydroxyapatite prepared from egg shell for enhanced biological properties. <i>Journal of Biomaterials Applications</i> , 2018, 32, 896-905.	1.2	19
113	Boosting oxygen reduction catalysis with abundant single atom tin active sites in zinc-air battery. <i>Journal of Power Sources</i> , 2021, 490, 229483.	4.0	19
114	Rutile-Coated B-Phase TiO ₂ Heterojunction Nanobelts for Photocatalytic H ₂ Evolution. <i>ACS Applied Nano Materials</i> , 2020, 3, 10349-10359.	2.4	18
115	Synthesis of Br-doped TiO ₂ hollow spheres with enhanced photocatalytic activity. <i>Journal of Nanoparticle Research</i> , 2017, 19, 1.	0.8	17
116	The Incorporation of Strontium in a Sodium Alginate Coating on Titanium Surfaces for Improved Biological Properties. <i>BioMed Research International</i> , 2017, 2017, 1-11.	0.9	17
117	Click chemistry to form a sticking xerogel for the portable therapy of bacteria-infected wounds. <i>Biomaterials Science</i> , 2019, 7, 5383-5387.	2.6	17
118	Four-electron oxygen reduction from mesoporous carbon modified with Fe ₂ O ₃ nanocrystals. <i>Journal of Materials Science</i> , 2017, 52, 10938-10947.	1.7	16
119	Dual-phase nanostructuring as a route to flexible nanoporous metals with outstanding comprehensive mechanical properties. <i>Science China Materials</i> , 2021, 64, 2289-2304.	3.5	16
120	Nanoporous Ni/NiO catalyst for efficient hydrogen evolution reaction prepared by partial electro-oxidation after dealloying. <i>Journal of Alloys and Compounds</i> , 2022, 911, 165061.	2.8	16
121	Amorphous CoMoO ₄ with Nanoporous Structures for Electrochemical Ammonia Synthesis under Ambient Conditions. <i>ACS Sustainable Chemistry and Engineering</i> , 2020, 8, 19072-19083.	3.2	15
122	Recent progress of photo-excited antibacterial materials via chemical vapor deposition. <i>Chemical Engineering Journal</i> , 2022, 437, 135401.	6.6	15
123	Self-supporting CoMoC nanoporous catalysts for N ₂ reduction reaction under ambient conditions. <i>Applied Surface Science</i> , 2020, 521, 146385.	3.1	14
124	Photothermal-controlled sustainable degradation of protective coating modified Mg alloy using near-infrared light. <i>Rare Metals</i> , 2021, 40, 2538-2551.	3.6	14
125	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.	2.3	13
126	Amorphous FeNiNbPC nanoporous structure for efficient and stable electrochemical oxygen evolution. <i>Journal of Colloid and Interface Science</i> , 2022, 608, 1973-1982.	5.0	13

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127	Photo-excited antibacterial poly(ϵ -caprolactone)@MoS ₂ /ZnS hybrid nanofibers. <i>Chemical Engineering Journal</i> , 2022, 434, 134764.	6.6	13
128	Free-standing ternary NiWP film for efficient water oxidation reaction. <i>Applied Surface Science</i> , 2018, 434, 871-878.	3.1	12
129	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.	1.8	12
130	Highly durable Cu@N@C 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.	2.8	12
131	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.	5.2	11
132	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.	3.1	11
133	Using tea nanoclusters as β -lactamase inhibitors to cure multidrug-resistant bacterial pneumonia: A promising therapeutic strategy by Chinese materioherbology. <i>Fundamental Research</i> , 2022, 2, 496-504.	1.6	11
134	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.	1.1	10
135	Controlled and sustained drug release performance of calcium sulfate cement porous TiO ₂ microspheres microspheres composites. <i>International Journal of Nanomedicine</i> , 2018, Volume 13, 7491-7501.	3.3	10
136	Tuning the π -electron delocalization degree of mesoporous carbon for hydrogen peroxide electrochemical generation. <i>Journal of Catalysis</i> , 2020, 392, 1-7.	3.1	10
137	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.	5.6	10
138	Self-organized nanotubular layer on Ti ₄ Zr ₂ Nb ₂ Sn alloys formed in organic electrolytes. <i>Journal of Materials Research</i> , 2009, 24, 3647-3652.	1.2	9
139	Fabrication, characterization, and photocatalytic properties of anatase TiO ₂ nanoplates with exposed {001} facets. <i>Journal of Nanoparticle Research</i> , 2014, 16, 1.	0.8	9
140	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.	1.3	9
141	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.	3.1	9
142	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.	1.2	8
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