

# Zhao-Yang Li

## List of Publications by Year in descending order

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178  
papers

10,831  
citations

23567

58  
h-index

37204

96  
g-index

181  
all docs

181  
docs citations

181  
times ranked

9102  
citing authors

#	ARTICLE	IF	CITATIONS
1	Rapid Biofilm Eradication on Bone Implants Using Red Phosphorus and Near-Infrared Light. <i>Advanced Materials</i> , 2018, 30, e1801808.	21.0	364
2	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.	12.8	306
3	Repeatable Photodynamic Therapy with Triggered Signaling Pathways of Fibroblast Cell Proliferation and Differentiation To Promote Bacteria-Accompanied Wound Healing. <i>ACS Nano</i> , 2018, 12, 1747-1759.	14.6	303
4	Interfacial engineering of Bi <sub>2</sub> S <sub>3</sub> /Ti <sub>3</sub> C <sub>2</sub> T <sub>x</sub> MXene based on work function for rapid photo-excited bacteria-killing. <i>Nature Communications</i> , 2021, 12, 1224.	12.8	283
5	The recent progress on metal-organic frameworks for phototherapy. <i>Chemical Society Reviews</i> , 2021, 50, 5086-5125.	38.1	262
6	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.	20.2	255
7	Strontium Promotes Osteogenic Differentiation of Mesenchymal Stem Cells Through the Ras/MAPK Signaling Pathway. <i>Cellular Physiology and Biochemistry</i> , 2009, 23, 165-174.	1.6	245
8	Tuning the Bandgap of Photo-Sensitive Polydopamine/Ag <sub>3</sub> PO <sub>4</sub> /Graphene Oxide Coating for Rapid, Noninvasive Disinfection of Implants. <i>ACS Central Science</i> , 2018, 4, 724-738.	11.3	227
9	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.	11.2	212
10	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.	14.6	182
11	Controlled-temperature photothermal and oxidative bacteria killing and acceleration of wound healing by polydopamine-assisted Au-hydroxyapatite nanorods. <i>Acta Biomaterialia</i> , 2018, 77, 352-364.	8.3	180
12	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.	10.0	180
13	Electrophoretic Deposited Stable Chitosan@MoS <sub>2</sub> Coating with Rapid In Situ Bacteria-Killing Ability under Dual-Light Irradiation. <i>Small</i> , 2018, 14, e1704347.	10.0	171
14	Noninvasive rapid bacteria-killing and acceleration of wound healing through photothermal/photodynamic/copper ion synergistic action of a hybrid hydrogel. <i>Biomaterials Science</i> , 2018, 6, 2110-2121.	5.4	168
15	Treatment of MRSA-infected osteomyelitis using bacterial capturing, magnetically targeted composites with microwave-assisted bacterial killing. <i>Nature Communications</i> , 2020, 11, 4446.	12.8	165
16	2D MOF Periodontitis Photodynamic Ion Therapy. <i>Journal of the American Chemical Society</i> , 2021, 143, 15427-15439.	13.7	161
17	Photo-responsive chitosan/Ag/MoS <sub>2</sub> for rapid bacteria-killing. <i>Journal of Hazardous Materials</i> , 2020, 383, 121122.	12.4	153
18	Local Photothermal/Photodynamic Synergistic Therapy by Disrupting Bacterial Membrane To Accelerate Reactive Oxygen Species Permeation and Protein Leakage. <i>ACS Applied Materials &amp; Interfaces</i> , 2019, 11, 17902-17914.	8.0	149

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19	Single-Atom Catalysis for Efficient Sonodynamic Therapy of Methicillin-Resistant <i>Staphylococcus aureus</i> -Infected Osteomyelitis. <i>ACS Nano</i> , 2021, 15, 10628-10639.	14.6	144
20	Eradicating Multidrug-Resistant Bacteria Rapidly Using a Multi Functional $\text{g-C}_3\text{N}_4$ @ $\text{Bi}_2\text{S}_3$ Nanorod Heterojunction with or without Antibiotics. <i>Advanced Functional Materials</i> , 2019, 29, 1900946.	14.9	136
21	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.	14.6	133
22	Synthesis of $\text{Cu}_2\text{O}$ Octadecahedron/ $\text{TiO}_2$ Quantum Dot Heterojunctions with High Visible Light Photocatalytic Activity and High Stability. <i>ACS Applied Materials &amp; Interfaces</i> , 2016, 8, 91-101.	8.0	132
23	Nano Ag/ZnO-Incorporated Hydroxyapatite Composite Coatings: Highly Effective Infection Prevention and Excellent Osteointegration. <i>ACS Applied Materials &amp; Interfaces</i> , 2018, 10, 1266-1277.	8.0	127
24	Defect enhances photocatalytic activity of ultrathin $\text{TiO}_2$ (B) nanosheets for hydrogen production by plasma engraving method. <i>Applied Catalysis B: Environmental</i> , 2018, 230, 11-17.	20.2	125
25	The enhanced photocatalytic properties of $\text{MnO}_2/\text{g-C}_3\text{N}_4$ heterostructure for rapid sterilization under visible light. <i>Journal of Hazardous Materials</i> , 2019, 377, 227-236.	12.4	122
26	The cross-talk between osteoclasts and osteoblasts in response to strontium treatment: Involvement of osteoprotegerin. <i>Bone</i> , 2011, 49, 1290-1298.	2.9	118
27	Nanoporous $\text{CuS}$ with excellent photocatalytic property. <i>Scientific Reports</i> , 2016, 5, 18125.	3.3	117
28	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.	7.3	116
29	Visible light responsive $\text{CuS}/$ protonated $\text{g-C}_3\text{N}_4$ heterostructure for rapid sterilization. <i>Journal of Hazardous Materials</i> , 2020, 393, 122423.	12.4	116
30	Dual Metal-Organic Framework Heterointerface. <i>ACS Central Science</i> , 2019, 5, 1591-1601.	11.3	108
31	microRNA-21 promotes osteogenic differentiation of mesenchymal stem cells by the $\text{PI3K}/\beta$ -catenin pathway. <i>Journal of Orthopaedic Research</i> , 2015, 33, 957-964.	2.3	106
32	$\text{Ni}_2\text{P}$ nanoflakes for the high-performing urea oxidation reaction: linking active sites to a UOR mechanism. <i>Nanoscale</i> , 2021, 13, 1759-1769.	5.6	106
33	Antibacterial Hybrid Hydrogels. <i>Macromolecular Bioscience</i> , 2021, 21, e2000252.	4.1	105
34	Electronic Structure Modulation of Nanoporous Cobalt Phosphide by Carbon Doping for Alkaline Hydrogen Evolution Reaction. <i>Advanced Functional Materials</i> , 2021, 31, 2107333.	14.9	104
35	Photoresponsive Materials for Antibacterial Applications. <i>Cell Reports Physical Science</i> , 2020, 1, 100245.	5.6	102
36	Recent Progress in Photocatalytic Antibacterial. <i>ACS Applied Bio Materials</i> , 2021, 4, 3909-3936.	4.6	100

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37	Ultrasonic Interfacial Engineering of Red Phosphorousâ€“Metal for Eradicating MRSA Infection Effectively. <i>Advanced Materials</i> , 2021, 33, e2006047.	21.0	93
38	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.	7.3	91
39	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.	10.7	91
40	Self-supported Ni <sub>3</sub> Se <sub>2</sub> @NiFe layered double hydroxide bifunctional electrocatalyst for overall water splitting. <i>Journal of Colloid and Interface Science</i> , 2021, 587, 79-89.	9.4	89
41	An Engineered Pseudoâ€“Macrophage for Rapid Treatment of Bacteriaâ€“Infected Osteomyelitis via Microwaveâ€“Excited Antiâ€“Infection and Immunoregulation. <i>Advanced Materials</i> , 2021, 33, e2102926.	21.0	87
42	Rapid and Highly Effective Noninvasive Disinfection by Hybrid Ag/CS@MnO <sub>2</sub> Nanosheets Using Near-Infrared Light. <i>ACS Applied Materials &amp; Interfaces</i> , 2019, 11, 15014-15027.	8.0	86
43	Superimposed surface plasma resonance effect enhanced the near-infrared photocatalytic activity of Au@Bi <sub>2</sub> WO <sub>6</sub> coating for rapid bacterial killing. <i>Journal of Hazardous Materials</i> , 2019, 380, 120818.	12.4	85
44	Ag <sub>3</sub> PO <sub>4</sub> decorated black urchin-like defective TiO <sub>2</sub> for rapid and long-term bacteria-killing under visible light. <i>Bioactive Materials</i> , 2021, 6, 1575-1587.	15.6	85
45	New Toxicity Mechanism of Silver Nanoparticles: Promoting Apoptosis and Inhibiting Proliferation. <i>PLoS ONE</i> , 2015, 10, e0122535.	2.5	83
46	Engineered probiotics biofilm enhances osseointegration via immunoregulation and anti-infection. <i>Science Advances</i> , 2020, 6, .	10.3	82
47	Highly Efficient Electrochemiluminescence Resonance Energy Transfer System in One Nanostructure: Its Application for Ultrasensitive Detection of MicroRNA in Cancer Cells. <i>Analytical Chemistry</i> , 2017, 89, 6029-6035.	6.5	81
48	DNA nanomachine-based regenerated sensing platform: a novel electrochemiluminescence resonance energy transfer strategy for ultra-high sensitive detection of microRNA from cancer cells. <i>Nanoscale</i> , 2017, 9, 2310-2316.	5.6	77
49	Na <sup>+</sup> 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.	11.9	77
50	Self-activating anti-infection implant. <i>Nature Communications</i> , 2021, 12, 6907.	12.8	77
51	Controlled release behaviour and antibacterial effects of antibiotic-loaded titania nanotubes. <i>Materials Science and Engineering C</i> , 2016, 62, 105-112.	7.3	76
52	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.	14.6	74
53	In-situ sulfuration of Cu-based metal-organic framework for rapid near-infrared light sterilization. <i>Journal of Hazardous Materials</i> , 2020, 390, 122126.	12.4	72
54	Rapid Biofilm Elimination on Bone Implants Using Nearâ€“Infraredâ€“Activated Inorganic Semiconductor Heterostructures. <i>Advanced Healthcare Materials</i> , 2019, 8, e1900835.	7.6	71

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55	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.	20.2	68
56	Ag <sub>2</sub> S@WS <sub>2</sub> Heterostructure for Rapid Bacteria-Killing Using Near-Infrared Light. <i>ACS Sustainable Chemistry and Engineering</i> , 2019, 7, 14982-14990.	6.7	67
57	Light-Activated Rapid Disinfection by Accelerated Charge Transfer in Red Phosphorus/ZnO Heterointerface. <i>Small Methods</i> , 2019, 3, 1900048.	8.6	64
58	Synthesis, characterization and the formation mechanism of magnesium- and strontium-substituted hydroxyapatite. <i>Journal of Materials Chemistry B</i> , 2015, 3, 3738-3746.	5.8	63
59	Ce and Er Co-doped TiO <sub>2</sub> for rapid bacteria-killing using visible light. <i>Bioactive Materials</i> , 2020, 5, 201-209.	15.6	61
60	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.	7.1	61
61	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.	14.6	61
62	AgBr Nanoparticles in Situ Growth on 2D MoS <sub>2</sub> Nanosheets for Rapid Bacteria-Killing and Photodisinfection. <i>ACS Applied Materials &amp; Interfaces</i> , 2019, 11, 34364-34375.	8.0	58
63	The rapid photoresponsive bacteria-killing of Cu-doped MoS <sub>2</sub> . <i>Biomaterials Science</i> , 2020, 8, 4216-4224.	5.4	57
64	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.	5.4	56
65	Noble metal-based nanomaterials as antibacterial agents. <i>Journal of Alloys and Compounds</i> , 2022, 904, 164091.	5.5	56
66	Near-infrared light controlled fast self-healing protective coating on magnesium alloy. <i>Corrosion Science</i> , 2020, 163, 108257.	6.6	55
67	Eco-friendly Hybrids of Carbon Quantum Dots Modified MoS <sub>2</sub> for Rapid Microbial Inactivation by Strengthened Photocatalysis. <i>ACS Sustainable Chemistry and Engineering</i> , 2020, 8, 534-542.	6.7	53
68	Rapid Sterilization by Photocatalytic Ag <sub>3</sub> PO <sub>4</sub> /Fe <sub>2</sub> O <sub>3</sub> Composites Using Visible Light. <i>ACS Sustainable Chemistry and Engineering</i> , 2020, 8, 2577-2585.	6.7	53
69	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.	12.7	52
70	In situ synthesis of a novel Mn <sub>3</sub> O <sub>4</sub> /g-C <sub>3</sub> N <sub>4</sub> p-n heterostructure photocatalyst for water splitting. <i>Journal of Colloid and Interface Science</i> , 2021, 586, 778-784.	9.4	52
71	Fabrication of dopamine-modified hyaluronic acid/chitosan multilayers on titanium alloy by layer-by-layer self-assembly for promoting osteoblast growth. <i>Applied Surface Science</i> , 2013, 284, 732-737.	6.1	51
72	Photoelectric-Responsive Extracellular Matrix for Bone Engineering. <i>ACS Nano</i> , 2019, 13, 13581-13594.	14.6	51

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73	Modulation of the mechanosensing of mesenchymal stem cells by laser-induced patterning for the acceleration of tissue reconstruction through the Wnt/ $\beta$ -catenin signaling pathway activation. <i>Acta Biomaterialia</i> , 2020, 101, 152-167.	8.3	51
74	Nano-needle strontium-substituted apatite coating enhances osteoporotic osseointegration through promoting osteogenesis and inhibiting osteoclastogenesis. <i>Bioactive Materials</i> , 2021, 6, 905-915.	15.6	51
75	Osteoprotegerin deficiency attenuates strontium-mediated inhibition of osteoclastogenesis and bone resorption. <i>Journal of Bone and Mineral Research</i> , 2011, 26, 1272-1282.	2.8	50
76	Overcoming Multidrug-Resistant MRSA Using Conventional Aminoglycoside Antibiotics. <i>Advanced Science</i> , 2020, 7, 1902070.	11.2	49
77	High-performance five-ring-fused organic semiconductors for field-effect transistors. <i>Chemical Society Reviews</i> , 2022, 51, 3071-3122.	38.1	49
78	Microwave assisted antibacterial action of Garcinia nanoparticles on Gram-negative bacteria. <i>Nature Communications</i> , 2022, 13, 2461.	12.8	49
79	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.	15.6	47
80	Structure engineering of electrodeposited NiMo films for highly efficient and durable seawater splitting. <i>Electrochimica Acta</i> , 2021, 365, 137366.	5.2	45
81	Cytotoxicity and antibacterial property of titanium alloy coated with silver nanoparticle-containing polyelectrolyte multilayer. <i>Materials Science and Engineering C</i> , 2013, 33, 2816-2820.	7.3	44
82	Ag <sub>2</sub> S decorated nanocubes with enhanced near-infrared photothermal and photodynamic properties for rapid sterilization. <i>Colloids and Interface Science Communications</i> , 2019, 33, 100201.	4.1	44
83	Highly efficient nanoporous CoBP electrocatalyst for hydrogen evolution reaction. <i>Rare Metals</i> , 2021, 40, 1031-1039.	7.1	42
84	Simultaneously enhancing the photocatalytic and photothermal effect of NH <sub>2</sub> -MIL-125-GO-Pt ternary heterojunction for rapid therapy of bacteria-infected wounds. <i>Bioactive Materials</i> , 2022, 18, 421-432.	15.6	42
85	Zn <sup>2+</sup> -assisted photothermal therapy for rapid bacteria-killing using biodegradable humic acid encapsulated MOFs. <i>Colloids and Surfaces B: Biointerfaces</i> , 2020, 188, 110781.	5.0	41
86	Novel Bionic Topography with MiR-21 Coating for Improving Bone-Implant Integration through Regulating Cell Adhesion and Angiogenesis. <i>Nano Letters</i> , 2020, 20, 7716-7721.	9.1	41
87	Sandwich structured Ni <sub>3</sub> S <sub>2</sub> -MoS <sub>2</sub> -Ni <sub>3</sub> S <sub>2</sub> @Ni foam electrode as a stable bifunctional electrocatalyst for highly sustained overall seawater splitting. <i>Electrochimica Acta</i> , 2021, 390, 138833.	5.2	41
88	The synergistic effect of strontium-substituted hydroxyapatite and microRNA-21 on improving bone remodeling and osseointegration. <i>Biomaterials Science</i> , 2018, 6, 2694-2703.	5.4	39
89	Two-Dimensional Lamellar Mo <sub>2</sub> C for Electrochemical Hydrogen Production: Insights into the Origin of Hydrogen Evolution Reaction Activity in Acidic and Alkaline Electrolytes. <i>ACS Applied Materials &amp; Interfaces</i> , 2018, 10, 40500-40508.	8.0	38
90	Unraveling the osteogenesis of magnesium by the activity of osteoblasts <i>in vitro</i> . <i>Journal of Materials Chemistry B</i> , 2018, 6, 6615-6621.	5.8	38

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91	Highly Efficient and Self-Standing Nanoporous NiO/Al <sub>3</sub> Ni <sub>2</sub> Electro-catalyst for Hydrogen Evolution Reaction. ACS Applied Energy Materials, 2019, 2, 7913-7922.	5.1	38
92	Effect of gas nitriding treatment on cavitation erosion behavior of commercially pure Ti and Ti-6Al-4V alloy. Surface and Coatings Technology, 2013, 221, 29-36.	4.8	36
93	Cicada-inspired fluoridated hydroxyapatite nanostructured surfaces synthesized by electrochemical additive manufacturing. Materials and Design, 2020, 193, 108790.	7.0	36
94	Strontium-calcium coadministration stimulates bone matrix osteogenic factor expression and new bone formation in a large animal model. Journal of Orthopaedic Research, 2009, 27, 758-762.	2.3	35
95	Strontium promotes osteogenic differentiation by activating autophagy via the the AMPK/mTOR signaling pathway in MC3T3-E1 cells. International Journal of Molecular Medicine, 2019, 44, 652-660.	4.0	34
96	Nanoporous Nickel-Molybdenum Oxide with an Oxygen Vacancy for Electrocatalytic Nitrogen Fixation under Ambient Conditions. ACS Applied Materials & Interfaces, 2021, 13, 30722-30730.	8.0	34
97	Self-supported Ni(OH) <sub>2</sub> /MnO <sub>2</sub> on CFP as a flexible anode towards electrocatalytic urea conversion: The role of composition on activity, redox states and reaction dynamics. Electrochimica Acta, 2019, 318, 32-41.	5.2	33
98	Surface Functionalization of Titanium Alloy with miR-29b Nanocapsules To Enhance Bone Regeneration. ACS Applied Materials & Interfaces, 2016, 8, 5783-5793.	8.0	32
99	Systemic administration of enzyme-responsive growth factor nanocapsules for promoting bone repair. Biomaterials Science, 2019, 7, 1675-1685.	5.4	31
100	Eco-friendly and degradable red phosphorus nanoparticles for rapid microbial sterilization under visible light. Journal of Materials Science and Technology, 2021, 67, 70-79.	10.7	31
101	Theory-screened MOF-based single-atom catalysts for facile and effective therapy of biofilm-induced periodontitis. Chemical Engineering Journal, 2022, 431, 133279.	12.7	31
102	Oxygen Vacancies-Rich Heterojunction of Ti <sub>3</sub> C <sub>2</sub> /BiOBr for Photo-Excited Antibacterial Textiles. Small, 2022, 18, e2104448.	10.0	31
103	A near infrared-activated photocatalyst based on elemental phosphorus by chemical vapor deposition. Applied Catalysis B: Environmental, 2019, 258, 117980.	20.2	30
104	Photo-controlled degradation of PLGA/Ti <sub>3</sub> C <sub>2</sub> hybrid coating on Mg-Sr alloy using near infrared light. Bioactive Materials, 2021, 6, 568-578.	15.6	30
105	Pd-loaded In <sub>2</sub> O <sub>3</sub> nanowire-like network synthesized using carbon nanotube templates for enhancing NO <sub>2</sub> sensing performance. RSC Advances, 2015, 5, 30038-30045.	3.6	29
106	Metal-Free Triple Annulation of Ene-Ketones with Isocyanides: Domino Access to Furan-Fused Heterocycles via Furoketenimine. Organic Letters, 2018, 20, 6750-6754.	4.6	29
107	Electrodeposition of self-supported NiMo amorphous coating as an efficient and stable catalyst for hydrogen evolution reaction. Rare Metals, 2022, 41, 2624-2632.	7.1	29
108	Precisely Controlled Delivery of Abaloparatide through Injectable Hydrogel to Promote Bone Regeneration. Macromolecular Bioscience, 2019, 19, e1900020.	4.1	28



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109	Synthesis, characterization and biological evaluation of strontium/magnesium-co-substituted hydroxyapatite. <i>Journal of Biomaterials Applications</i> , 2016, 31, 140-151.	2.4	27
110	A novel snail-inspired bionic design of titanium with strontium-substituted hydroxyapatite coating for promoting osseointegration. <i>Journal of Materials Science and Technology</i> , 2021, 79, 35-45.	10.7	27
111	Enhancement of gas-sensing abilities in p-type ZnWO <sub>4</sub> by local modification of Pt nanoparticles. <i>Analytica Chimica Acta</i> , 2016, 927, 107-116.	5.4	26
112	Interface Polarization Strengthened Microwave Catalysis of MoS <sub>2</sub> /FeS/Rhein for the Therapy of Bacteria-Infected Osteomyelitis. <i>Advanced Functional Materials</i> , 2022, 32, .	14.9	26
113	miR-21 promotes osseointegration and mineralization through enhancing both osteogenic and osteoclastic expression. <i>Materials Science and Engineering C</i> , 2020, 111, 110785.	7.3	25
114	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.	3.1	25
115	Vertebral Augmentation With a Novel Vessel-X Bone Void Filling Container System and Bioactive Bone Cement. <i>Spine</i> , 2007, 32, 2076-2082.	2.0	24
116	Organic composite-mediated surface coating of human acellular bone matrix with strontium. <i>Materials Science and Engineering C</i> , 2018, 84, 12-20.	7.3	22
117	Atomic-layer Fe <sub>2</sub> O <sub>3</sub> -modified 2D porphyrinic metal-organic framework for enhanced photocatalytic disinfection through electron-withdrawing effect. <i>Applied Catalysis B: Environmental</i> , 2022, 317, 121701.	20.2	22
118	Synthesis, Characterization, and Biological Evaluation of Nanostructured Hydroxyapatite with Different Dimensions. <i>Nanomaterials</i> , 2017, 7, 38.	4.1	21
119	ZIF-67 derived Co@NC/g-C <sub>3</sub> N <sub>4</sub> as a photocatalyst for enhanced water splitting H <sub>2</sub> evolution. <i>Environmental Research</i> , 2021, 197, 111002.	7.5	21
120	Optimizing the strontium content to achieve an ideal osseointegration through balancing apatite-forming ability and osteogenic activity. <i>Materials Science and Engineering C</i> , 2022, 133, 112647.	7.3	21
121	3D N-doped mesoporous carbon/SnO <sub>2</sub> with polypyrrole coating layer as high-performance anode material for Li-ion batteries. <i>Journal of Alloys and Compounds</i> , 2022, 892, 162083.	5.5	20
122	Nanosized strontium substituted hydroxyapatite prepared from egg shell for enhanced biological properties. <i>Journal of Biomaterials Applications</i> , 2018, 32, 896-905.	2.4	19
123	UV-irradiation induced biological activity and antibacterial activity of ZnO coated magnesium alloy. <i>Materials Science and Engineering C</i> , 2020, 114, 110997.	7.3	19
124	Boosting oxygen reduction catalysis with abundant single atom tin active sites in zinc-air battery. <i>Journal of Power Sources</i> , 2021, 490, 229483.	7.8	19
125	Rutile-Coated B-Phase TiO <sub>2</sub> Heterojunction Nanobelts for Photocatalytic H <sub>2</sub> Evolution. <i>ACS Applied Nano Materials</i> , 2020, 3, 10349-10359.	5.0	18
126	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.	1.9	17



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127	Imitative-click chemistry to form a sticking xerogel for the portable therapy of bacteria-infected wounds. <i>Biomaterials Science</i> , 2019, 7, 5383-5387.	5.4	17
128	Four-electron oxygen reduction from mesoporous carbon modified with Fe <sub>2</sub> O <sub>3</sub> nanocrystals. <i>Journal of Materials Science</i> , 2017, 52, 10938-10947.	3.7	16
129	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.	5.5	16
130	Emission Laws and Influence Factors of Greenhouse Gases in Saline-Alkali Paddy Fields. <i>Sustainability</i> , 2016, 8, 163.	3.2	15
131	Effect of freeze-thaw cycles on carbon stocks of saline-alkali paddy soil. <i>Archives of Agronomy and Soil Science</i> , 2016, 62, 1640-1653.	2.6	15
132	Amorphous CoMoO <sub>4</sub> with Nanoporous Structures for Electrochemical Ammonia Synthesis under Ambient Conditions. <i>ACS Sustainable Chemistry and Engineering</i> , 2020, 8, 19072-19083.	6.7	15
133	Self-standing nanoporous NiPd bimetallic electrocatalysts with ultra-low Pd loading for efficient hydrogen evolution reaction. <i>Electrochimica Acta</i> , 2022, 411, 140077.	5.2	15
134	Recent progress of photo-excited antibacterial materials via chemical vapor deposition. <i>Chemical Engineering Journal</i> , 2022, 437, 135401.	12.7	15
135	Photothermal-controlled sustainable degradation of protective coating modified Mg alloy using near-infrared light. <i>Rare Metals</i> , 2021, 40, 2538-2551.	7.1	14
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