

Zhenduo Cui

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113
papers

5,481
citations

43
h-index

72
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117
ext. papers

7,385
ext. citations

10.8
avg, IF

6.09
L-index

#	Paper	IF	Citations
113	Photo-Inspired Antibacterial Activity and Wound Healing Acceleration by Hydrogel Embedded with Ag/Ag@AgCl/ZnO Nanostructures. <i>ACS Nano</i> , 2017 , 11, 9010-9021	16.7	416
112	Rapid Biofilm Eradication on Bone Implants Using Red Phosphorus and Near-Infrared Light. <i>Advanced Materials</i> , 2018 , 30, e1801808	24	256
111	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	16.7	209
110	Balancing Bacteria-Osteoblast Competition through Selective Physical Puncture and Biofunctionalization of ZnO/Polydopamine/Arginine-Glycine-Aspartic Acid-Cysteine Nanorods. <i>ACS Nano</i> , 2017 , 11, 11250-11263	16.7	178
109	Synergistic Bacteria Killing through Photodynamic and Physical Actions of Graphene Oxide/Ag/Collagen Coating. <i>ACS Applied Materials & Interfaces</i> , 2017 , 9, 26417-26428	9.5	173
108	Rapid Sterilization and Accelerated Wound Healing Using Zn ²⁺ and Graphene Oxide Modified g-C ₃ N ₄ under Dual Light Irradiation. <i>Advanced Functional Materials</i> , 2018 , 28, 1800299	15.6	173
107	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
106	Tuning the Bandgap of Photo-Sensitive Polydopamine/AgPO/Graphene Oxide Coating for Rapid, Noninvasive Disinfection of Implants. <i>ACS Central Science</i> , 2018 , 4, 724-738	16.8	168
105	Electrophoretic Deposited Stable Chitosan@MoS Coating with Rapid In Situ Bacteria-Killing Ability under Dual-Light Irradiation. <i>Small</i> , 2018 , 14, e1704347	11	125
104	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	10.8	111
103	Biomedical Applications of Functionalized ZnO Nanomaterials: from Biosensors to Bioimaging. <i>Advanced Materials Interfaces</i> , 2016 , 3, 1500494	4.6	111
102	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
101	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
100	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
99	In Situ Disinfection through Photoinspired Radical Oxygen Species Storage and Thermal-Triggered Release from Black Phosphorous with Strengthened Chemical Stability. <i>Small</i> , 2018 , 14, 1703197	11	98
98	The recent progress on metal-organic frameworks for phototherapy. <i>Chemical Society Reviews</i> , 2021 , 50, 5086-5125	58.5	96
97	Nano Ag/ZnO-Incorporated Hydroxyapatite Composite Coatings: Highly Effective Infection Prevention and Excellent Osteointegration. <i>ACS Applied Materials & Interfaces</i> , 2018 , 10, 1266-1277	9.5	96

96	Nanoporous CuS with excellent photocatalytic property. <i>Scientific Reports</i> , 2015 , 5, 18125	4.9	93
95	Photo-responsive chitosan/Ag/MoS for rapid bacteria-killing. <i>Journal of Hazardous Materials</i> , 2020 , 383, 121122	12.8	91
94	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
93	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
92	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
91	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
90	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
89	A nanoporous metal phosphide catalyst for bifunctional water splitting. <i>Journal of Materials Chemistry A</i> , 2018 , 6, 5574-5579	13	76
88	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
87	Porous Iron-Carboxylate Metal-Organic Framework: A Novel Bioplatfrom with Sustained Antibacterial Efficacy and Nontoxicity. <i>ACS Applied Materials & Interfaces</i> , 2017 , 9, 19248-19257	9.5	73
86	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
85	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
84	Construction of poly(lactic-co-glycolic acid)/ZnO nanorods/Ag nanoparticles hybrid coating on Ti implants for enhanced antibacterial activity and biocompatibility. <i>Materials Science and Engineering C</i> , 2017 , 79, 629-637	8.3	66
83	Dual Metal-Organic Framework Heterointerface. <i>ACS Central Science</i> , 2019 , 5, 1591-1601	16.8	65
82	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
81	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
80	Atomic layer deposited ZrO nanofilm on Mg-Sr alloy for enhanced corrosion resistance and biocompatibility. <i>Acta Biomaterialia</i> , 2017 , 58, 515-526	10.8	56
79	Tannic Acid/Fe/Ag Nanofilm Exhibiting Superior Photodynamic and Physical Antibacterial Activity. <i>ACS Applied Materials & Interfaces</i> , 2017 , 9, 39657-39671	9.5	55

78	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
77	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
76	Infection-prevention on Ti implants by controlled drug release from folic acid/ZnO quantum dots sealed titania nanotubes. <i>Materials Science and Engineering C</i> , 2018 , 85, 214-224	8.3	49
75	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
74	Light-Activated Rapid Disinfection by Accelerated Charge Transfer in Red Phosphorus/ZnO Heterointerface. <i>Small Methods</i> , 2019 , 3, 1900048	12.8	48
73	A highly efficient electrocatalyst based on amorphous PdCu material for hydrogen evolution reaction. <i>Journal of Materials Chemistry A</i> , 2017 , 5, 18793-18800	13	47
72	Rapid Biofilm Elimination on Bone Implants Using Near-Infrared-Activated Inorganic Semiconductor Heterostructures. <i>Advanced Healthcare Materials</i> , 2019 , 8, e1900835	10.1	44
71	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
70	Micro-organic single crystalline phototransistors of 7,7,8,8-tetracyanoquinodimethane and tetrathiafulvalene. <i>Applied Physics Letters</i> , 2009 , 94, 123308	3.4	42
69	Ultrasonic Interfacial Engineering of Red Phosphorous-Metal for Eradicating MRSA Infection Effectively. <i>Advanced Materials</i> , 2021 , 33, e2006047	24	41
68	AgBr Nanoparticles in Situ Growth on 2D MoS Nanosheets for Rapid Bacteria-Killing and Photodisinfection. <i>ACS Applied Materials & Interfaces</i> , 2019 , 11, 34364-34375	9.5	39
67	Single-Atom Catalysis for Efficient Sonodynamic Therapy of Methicillin-Resistant -Infected Osteomyelitis. <i>ACS Nano</i> , 2021 , 15, 10628-10639	16.7	37
66	2D MOF Periodontitis Photodynamic Ion Therapy. <i>Journal of the American Chemical Society</i> , 2021 , 143, 15427-15439	16.4	36
65	Engineered probiotics biofilm enhances osseointegration via immunoregulation and anti-infection. <i>Science Advances</i> , 2020 , 6,	14.3	34
64	The controlled drug release by pH-sensitive molecularly imprinted nanospheres for enhanced antibacterial activity. <i>Materials Science and Engineering C</i> , 2017 , 77, 84-91	8.3	33
63	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
62	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
61	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

60	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
59	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
58	Construction of N-halamine labeled silica/zinc oxide hybrid nanoparticles for enhancing antibacterial ability of Ti implants. <i>Materials Science and Engineering C</i> , 2017 , 76, 50-58	8.3	27
57	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
56	Photoelectric-Responsive Extracellular Matrix for Bone Engineering. <i>ACS Nano</i> , 2019 , 13, 13581-13594	16.7	27
55	Adjusting tetrathiafulvalene (TTF) functionality through molecular design for organic field-effect transistors. <i>CrystEngComm</i> , 2014 , 16, 5968	3.3	27
54	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
53	Recent Progress in Photocatalytic Antibacterial.. <i>ACS Applied Bio Materials</i> , 2021 , 4, 3909-3936	4.1	27
52	Surface Functionalization of Titanium Alloy with miR-29b Nanocapsules To Enhance Bone Regeneration. <i>ACS Applied Materials & Interfaces</i> , 2016 , 8, 5783-93	9.5	24
51	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
50	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
49	Antibacterial Hybrid Hydrogels. <i>Macromolecular Bioscience</i> , 2021 , 21, e2000252	5.5	23
48	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
47	Nano-needle strontium-substituted apatite coating enhances osteoporotic osseointegration through promoting osteogenesis and inhibiting osteoclastogenesis. <i>Bioactive Materials</i> , 2021 , 6, 905-915	16.7	22
46	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
45	Electronic Structure Modulation of Nanoporous Cobalt Phosphide by Carbon Doping for Alkaline Hydrogen Evolution Reaction. <i>Advanced Functional Materials</i> , 2021 , 31, 2107333	15.6	22
44	Improvements in the Superelasticity and Change in Deformation Mode of E-Type TiNb ₂₄ Zr ₂ Alloys Caused by Aging Treatments. <i>Metallurgical and Materials Transactions A: Physical Metallurgy and Materials Science</i> , 2011 , 42, 2843-2849	2.3	21
43	Synthesis, characterization and biological evaluation of strontium/magnesium-co-substituted hydroxyapatite. <i>Journal of Biomaterials Applications</i> , 2016 , 31, 140-51	2.9	20

42	Preparation, Characterization and Mechanical Properties of Cu-Sn Alloy/Graphite Composites. <i>Metallurgical and Materials Transactions A: Physical Metallurgy and Materials Science</i> , 2014 , 45, 5194-5200 ^{2,3}	16
41	Synthesis, Characterization, and Biological Evaluation of Nanostructured Hydroxyapatite with Different Dimensions. <i>Nanomaterials</i> , 2017 , 7,	5.4 15
40	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
39	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
38	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
37	Preparation of Nanoporous Pd/CuO by Dealloying and Their Electrocatalysis for Methanol in Alkaline Condition. <i>Journal of the Electrochemical Society</i> , 2014 , 161, F1474-F1480	3.9 12
36	"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
35	Self-activating anti-infection implant. <i>Nature Communications</i> , 2021 , 12, 6907	17.4 11
34	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	11.5 11
33	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
32	Spin State Tuning of the Octahedral Sites in Ni _{1-x} Co _x -Based Spinel toward Highly Efficient Urea Oxidation Reaction. <i>Journal of Physical Chemistry C</i> , 2021 , 125, 9190-9199	3.8 10
31	Synthesis of Br-doped TiO ₂ hollow spheres with enhanced photocatalytic activity. <i>Journal of Nanoparticle Research</i> , 2017 , 19, 1	2.3 9
30	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
29	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
28	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
27	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
26	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
25	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

24	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
23	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
22	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
21	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
20	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
19	Microwave assisted antibacterial action of Garcinia nanoparticles on Gram-negative bacteria.. <i>Nature Communications</i> , 2022 , 13, 2461	17.4	7
18	Oxygen Vacancies-Rich Heterojunction of Ti C /BiOBr for Photo-Excited Antibacterial Textiles. <i>Small</i> , 2021 , e2104448	11	6
17	High-performance five-ring-fused organic semiconductors for field-effect transistors.. <i>Chemical Society Reviews</i> , 2022 ,	58.5	6
16	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
15	Comparison of physical characteristics and cell culture test of hydroxyapatite/collagen composite coating on NiTi SMA: electrochemical deposition and chemically biomimetic growth. <i>Frontiers of Materials Science in China</i> , 2007 , 1, 229-236		5
14	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
13	Controlled and sustained drug release performance of calcium sulfate cement porous TiO microspheres composites. <i>International Journal of Nanomedicine</i> , 2018 , 13, 7491-7501	7.3	4
12	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
11	Microstructure and Cavitation Erosion Properties of Ceramic Coatings Fabricated on Ti-6Al-4V Alloy by Pack Carburizing. <i>Journal of Materials Engineering and Performance</i> , 2014 , 23, 2772-2779	1.6	3
10	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
9	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
8	Morphology and quantitative characteristics of ceramic phase in Ti-HA composites with ? 20vol% HA. <i>Frontiers of Materials Science in China</i> , 2007 , 1, 288-292		1
7	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 , 112647	8.3	1

6	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
5	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
4	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
3	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
2	Matricryptic peptide-inspired hydrogels for promoting osteogenic differentiation. <i>International Journal of Polymeric Materials and Polymeric Biomaterials</i> , 2019 , 68, 384-395	3	
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	