Sheng-Li Zhu

List of Publications by Year
in descending order

364 papers	16,024 citations	13099 68 h-index	29157 104 g-index
366 all docs	366 docs citations	366 times ranked	13554 citing authors

#	Article	IF	Citations
1	Amorphous Metallic NiFeP: A Conductive Bulk Material Achieving High Activity for Oxygen Evolution Reaction in Both Alkaline and Acidic Media. Advanced Materials, 2017, 29, 1606570.	21.0	441
2	Rapid Biofilm Eradication on Bone Implants Using Red Phosphorus and Nearâ€Infrared Light. Advanced Materials, 2018, 30, e1801808.	21.0	364
3	Zinc-doped Prussian blue enhances photothermal clearance of Staphylococcus aureus and promotes tissue repair in infected wounds. Nature Communications, 2019, 10, 4490.	12.8	306
4	Repeatable Photodynamic Therapy with Triggered Signaling Pathways of Fibroblast Cell Proliferation and Differentiation To Promote Bacteria-Accompanied Wound Healing. ACS Nano, 2018, 12, 1747-1759.	14.6	303
5	Interfacial engineering of Bi2S3/Ti3C2Tx MXene based on work function for rapid photo-excited bacteria-killing. Nature Communications, 2021, 12, 1224.	12.8	283
6	The recent progress on metalâ€“organic frameworks for phototherapy. Chemical Society Reviews, 2021, 50, 5086-5125.	38.1	262
7	Enhanced photocatalytic activity and photothermal effects of cu-doped metal-organic frameworks for rapid treatment of bacteria-infected wounds. Applied Catalysis B: Environmental, 2020, 261, 118248.	20.2	255
8	Tuning the Bandgap of Photo-Sensitive Polydopamine/Ag₃PO₄/Graphene Oxide Coating for Rapid, Noninvasive Disinfection of Implants. ACS Central Science, 2018, 4, 724-738.	11.3	227
9	Highly Effective and Noninvasive Nearâ€Infrared Eradication of a Staphylococcus aureus Biofilm on Implants by a Photoresponsive Coating within 20 Min. Advanced Science, 2019, 6, 1900599.	11.2	212
10	Nanoporous Palladium Hydride for Electrocatalytic N₂ Reduction under Ambient Conditions. Angewandte Chemie - International Edition, 2020, 59, 3511-3516.	13.8	182
11	Rapid Photo-Sonotherapy for Clinical Treatment of Bacterial Infected Bone Implants by Creating Oxygen Deficiency Using Sulfur Doping. ACS Nano, 2020, 14, 2077-2089.	14.6	182
12	Controlled-temperature photothermal and oxidative bacteria killing and acceleration of wound healing by polydopamine-assisted Au-hydroxyapatite nanorods. Acta Biomaterialia, 2018, 77, 352-364.	8.3	180
13	Rapid and Superior Bacteria Killing of Carbon Quantum Dots/ZnO Decorated Injectable Folic Acidâ€Conjugated PDA Hydrogel through Dualâ€Light Triggered ROS and Membrane Permeability. Small, 2019, 15, e1900322.	10.0	180
14	A new Ti-based bulk glassy alloy with potential for biomedical application. Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing, 2007, 459, 233-237.	5.6	172
15	Treatment of MRSA-infected osteomyelitis using bacterial capturing, magnetically targeted composites with microwave-assisted bacterial killing. Nature Communications, 2020, 11, 4446.	12.8	165
16	2D MOF Periodontitis Photodynamic Ion Therapy. Journal of the American Chemical Society, 2021, 143, 15427-15439.	13.7	161
17	Study on corrosion properties of pipelines in simulated produced water saturated with supercritical CO2. Applied Surface Science, 2006, 252, 2368-2374.	6.1	154
18	Local Photothermal/Photodynamic Synergistic Therapy by Disrupting Bacterial Membrane To Accelerate Reactive Oxygen Species Permeation and Protein Leakage. ACS Applied Materials & Interfaces, 2019, 11, 17902-17914.	8.0	149

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19	Single-Atom Catalysis for Efficient Sonodynamic Therapy of Methicillin-Resistant Staphylococcus aureus-Infected Osteomyelitis. ACS Nano, 2021, 15, 10628-10639.	14.6	144
20	Rapid bacteria trapping and killing of metal-organic frameworks strengthened photo-responsive hydrogel for rapid tissue repair of bacterial infected wounds. Chemical Engineering Journal, 2020, 396, 125194.	12.7	142
21	Eradicating Multidrugâ€Resistant Bacteria Rapidly Using a Multi Functional gâ€C₃N₄@ Bi₂S₃ Nanorod Heterojunction with or without Antibiotics. Advanced Functional Materials, 2019, 29, 1900946.	14.9	136
22	Near-Infrared Light Triggered Phototherapy and Immunotherapy for Elimination of Methicillin-Resistant Staphylococcus aureus Biofilm Infection on Bone Implant. ACS Nano, 2020, 14, 8157-8170.	14.6	133
23	Synthesis of Cu₂O Octadecahedron/TiO₂ Quantum Dot Heterojunctions with High Visible Light Photocatalytic Activity and High Stability. ACS Applied Materials & Interfaces, 2016, 8, 91-101.	8.0	132
24	Glass-forming ability and mechanical properties of Ti-based bulk glassy alloys with large diameters of up to 1cm. Intermetallics, 2008, 16, 1031-1035.	3.9	129
25	Nano Ag/ZnO-Incorporated Hydroxyapatite Composite Coatings: Highly Effective Infection Prevention and Excellent Osteointegration. ACS Applied Materials & Interfaces, 2018, 10, 1266-1277.	8.0	127
26	Defect enhances photocatalytic activity of ultrathin TiO2 (B) nanosheets for hydrogen production by plasma engraving method. Applied Catalysis B: Environmental, 2018, 230, 11-17.	20.2	125
27	The enhanced photocatalytic properties of MnO2/g-C3N4 heterostructure for rapid sterilization under visible light. Journal of Hazardous Materials, 2019, 377, 227-236.	12.4	122
28	Silver nanoparticles supported on TiO2 nanotubes as active catalysts for ethanol oxidation. Journal of Catalysis, 2011, 278, 276-287.	6.2	121
29	Nanoporous CuS with excellent photocatalytic property. Scientific Reports, 2016, 5, 18125.	3.3	117
30	Incorporation of silver and strontium in hydroxyapatite coating on titanium surface for enhanced antibacterial and biological properties. Materials Science and Engineering C, 2017, 71, 852-861.	7.3	116
31	Visible light responsive CuS/ protonated g-C3N4 heterostructure for rapid sterilization. Journal of Hazardous Materials, 2020, 393, 122423.	12.4	116
32	Design of a highly sensitive ethanol sensor using a nano-coaxial p-Co3O4/n-TiO2 heterojunction synthesized at low temperature. Nanoscale, 2013, 5, 10916.	5.6	113
33	Stressâ€"strain behavior of porous NiTi alloys prepared by powders sintering. Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing, 2005, 408, 264-268.	5.6	108
34	Dual Metalâ€"Organic Framework Heterointerface. ACS Central Science, 2019, 5, 1591-1601.	11.3	108
35	A nanoporous metal phosphide catalyst for bifunctional water splitting. Journal of Materials Chemistry A, 2018, 6, 5574-5579.	10.3	106
36	Ni₂P nanoflakes for the high-performing urea oxidation reaction: linking active sites to a UOR mechanism. Nanoscale, 2021, 13, 1759-1769.	5.6	106

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37	Antibacterial Hybrid Hydrogels. Macromolecular Bioscience, 2021, 21, e2000252.	4.1	105
38	Enhanced photocatalytic and photothermal properties of ecofriendly metal-organic framework heterojunction for rapid sterilization. Chemical Engineering Journal, 2021, 405, 126730.	12.7	104
39	Electronic Structure Modulation of Nanoporous Cobalt Phosphide by Carbon Doping for Alkaline Hydrogen Evolution Reaction. Advanced Functional Materials, 2021, 31, 2107333.	14.9	104
40	Characterization of the surface film formed from carbon dioxide corrosion on N80 steel. Materials Letters, 2004, 58, 1076-1081.	2.6	102
41	Synthesis of three-dimensionally ordered macroporous LaFeO3 with enhanced methanol gas sensing properties. Sensors and Actuators B: Chemical, 2015, 209, 706-713.	7.8	102
42	Photoresponsive Materials for Antibacterial Applications. Cell Reports Physical Science, 2020, 1, 100245.	5.6	102
43	Recent Progress in Photocatalytic Antibacterial. ACS Applied Bio Materials, 2021, 4, 3909-3936.	4.6	100
44	Ultrasonic Interfacial Engineering of Red Phosphorousâ€"Metal for Eradicating MRSA Infection Effectively. Advanced Materials, 2021, 33, e2006047.	21.0	93
45	Study on the formation of an apatite layer on NiTi shape memory alloy using a chemical treatment method. Surface and Coatings Technology, 2003, 173, 229-234.	4.8	91
46	Strontium incorporation to optimize the antibacterial and biological characteristics of silver-substituted hydroxyapatite coating. Materials Science and Engineering C, 2016, 58, 467-477.	7.3	91
47	Photothermy-strengthened photocatalytic activity of polydopamine-modified metal-organic frameworks for rapid therapy of bacteria-infected wounds. Journal of Materials Science and Technology, 2021, 62, 83-95.	10.7	91
48	Self-supported Ni3Se2@NiFe layered double hydroxide bifunctional electrocatalyst for overall water splitting. Journal of Colloid and Interface Science, 2021, 587, 79-89.	9.4	89
49	An Engineered Pseudoâ€Macrophage for Rapid Treatment of Bacteriaâ€Infected Osteomyelitis via Microwaveâ€Excited Antiâ€Infection and Immunoregulation. Advanced Materials, 2021, 33, e2102926.	21.0	87
50	Rapid and Highly Effective Noninvasive Disinfection by Hybrid Ag/CS@MnO₂ Nanosheets Using Near-Infrared Light. ACS Applied Materials & Interfaces, 2019, 11, 15014-15027.	8.0	86
51	Effect of Zr on super-elasticity and mechanical properties of Tiâ€"24at% Nbâ€"(0, 2, 4)at% Zr alloy subjected to aging treatment. Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing, 2012, 536, 197-206.	5.6	85
52	Superimposed surface plasma resonance effect enhanced the near-infrared photocatalytic activity of Au@Bi2WO6 coating for rapid bacterial killing. Journal of Hazardous Materials, 2019, 380, 120818.	12.4	85
53	Ag3PO4 decorated black urchin-like defective TiO2 for rapid and long-term bacteria-killing under visible light. Bioactive Materials, 2021, 6, 1575-1587.	15.6	85
54	Processing of porous TiNi shape memory alloy from elemental powders by Ar-sintering. Materials Letters, 2004, 58, 2369-2373.	2.6	84

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55	Synthesis and properties of morphology controllable copper sulphide nanosheets for supercapacitor application. Electrochimica Acta, 2016, 211, 891-899.	5.2	84
56	Synthesis and properties of nanoporous Ag2S/CuS catalyst for hydrogen evolution reaction. Electrochimica Acta, 2016, 190, 221-228.	5.2	82
57	Engineered probiotics biofilm enhances osseointegration via immunoregulation and anti-infection. Science Advances, 2020, 6, .	10.3	82
58	EIS study of the surface film on the surface of carbon steel from supercritical carbon dioxide corrosion. Applied Surface Science, 2004, 228, 17-25.	6.1	77
59	Na+ inserted metal-organic framework for rapid therapy of bacteria-infected osteomyelitis through microwave strengthened Fenton reaction and thermal effects. Nano Today, 2021, 37, 101090.	11.9	77
60	Self-activating anti-infection implant. Nature Communications, 2021, 12, 6907.	12.8	77
61	Controlled release behaviour and antibacterial effects of antibiotic-loaded titania nanotubes. Materials Science and Engineering C, 2016, 62, 105-112.	7.3	76
62	An amorphous nanoporous PdCuNi-S hybrid electrocatalyst for highly efficient hydrogen production. Applied Catalysis B: Environmental, 2019, 246, 156-165.	20.2	75
63	Lysozyme-Assisted Photothermal Eradication of Methicillin-Resistant Staphylococcus aureus Infection and Accelerated Tissue Repair with Natural Melanosome Nanostructures. ACS Nano, 2019, 13, 11153-11167.	14.6	74
64	A Z-scheme heterojunction of ZnO/CDots/C3N4 for strengthened photoresponsive bacteria-killing and acceleration of wound healing. Journal of Materials Science and Technology, 2020, 57, 1-11.	10.7	74
65	Microstructure and wear performance of gradient Ti/TiN metal matrix composite coating synthesized using a gas nitriding technology. Surface and Coatings Technology, 2005, 190, 309-313.	4.8	73
66	Pd coated MoS 2 nanoflowers for highly efficient hydrogen evolution reaction under irradiation. Journal of Power Sources, 2015, 284, 68-76.	7.8	73
67	In-situ sulfuration of Cu-based metal-organic framework for rapid near-infrared light sterilization. Journal of Hazardous Materials, 2020, 390, 122126.	12.4	72
68	Soft magnetic Fe-Co-based amorphous alloys with extremely high saturation magnetization exceeding 1.9ÂT and low coercivity of 2ÂA/m. Journal of Alloys and Compounds, 2017, 723, 376-384.	5.5	71
69	Rapid Biofilm Elimination on Bone Implants Using Nearâ€Infraredâ€Activated Inorganic Semiconductor Heterostructures. Advanced Healthcare Materials, 2019, 8, e1900835.	7.6	71
70	Designing Highly Efficient and Longâ€Term Durable Electrocatalyst for Oxygen Evolution by Coupling B and P into Amorphous Porous NiFeâ€Based Material. Small, 2019, 15, e1901020.	10.0	71
71	Excellent soft magnetic Fe-Co-B-based amorphous alloys with extremely high saturation magnetization above 1.85ÂT and low coercivity below 3ÂA/m. Journal of Alloys and Compounds, 2017, 711, 132-142.	5.5	70
72	A highly efficient electrocatalyst based on amorphous Pdâ€“Cuâ€“S material for hydrogen evolution reaction. Journal of Materials Chemistry A, 2017, 5, 18793-18800.	10.3	70

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73	The enhanced near-infrared photocatalytic and photothermal effects of MXene-based heterojunction for rapid bacteria-killing. Applied Catalysis B: Environmental, 2021, 297, 120500.	20.2	68
74	Ag₂S@WS₂ Heterostructure for Rapid Bacteria-Killing Using Near-Infrared Light. ACS Sustainable Chemistry and Engineering, 2019, 7, 14982-14990.	6.7	67
75	Lightâ€Activated Rapid Disinfection by Accelerated Charge Transfer in Red Phosphorus/ZnO Heterointerface. Small Methods, 2019, 3, 1900048.	8.6	64
76	Nanoporous NiSb to Enhance Nitrogen Electroreduction via Tailoring Competitive Adsorption Sites. Advanced Materials, 2021, 33, e2101126.	21.0	64
77	Synthesis, characterization and the formation mechanism of magnesium- and strontium-substituted hydroxyapatite. Journal of Materials Chemistry B, 2015, 3, 3738-3746.	5.8	63
78	Ni-free Ti-based bulk metallic glass with potential for biomedical applications produced by spark plasma sintering. Intermetallics, 2012, 29, 99-103.	3.9	61
79	Ce and Er Co-doped TiO2 for rapid bacteria- killing using visible light. Bioactive Materials, 2020, 5, 201-209.	15.6	61
80	Flower-like CuS/graphene oxide with photothermal and enhanced photocatalytic effect for rapid bacteria-killing using visible light. Rare Metals, 2022, 41, 639-649.	7.1	61
81	Photo-Sono Interfacial Engineering Exciting the Intrinsic Property of Herbal Nanomedicine for Rapid Broad-Spectrum Bacteria Killing. ACS Nano, 2021, 15, 18505-18519.	14.6	61
82	Free-standing amorphous nanoporous nickel cobalt phosphide prepared by electrochemically delloying process as a high performance energy storage electrode material. Energy Storage Materials, 2019, 17, 300-308.	18.0	60
83	Three-dimensionally ordered macroporous La 1â^' x Mg x FeO 3 as high performance gas sensor to methanol. Journal of Alloys and Compounds, 2015, 635, 194-202.	5.5	59
84	Corrosion behavior of oil tube steels under conditions of multiphase flow saturated with super-critical carbon dioxide. Materials Letters, 2004, 58, 1035-1040.	2.6	58
85	High entropy effect on structure and properties of (Fe,Co,Ni,Cr)-B amorphous alloys. Journal of Alloys and Compounds, 2017, 696, 345-352.	5.5	58
86	AgBr Nanoparticles in Situ Growth on 2D MoS₂ Nanosheets for Rapid Bacteria-Killing and Photodisinfection. ACS Applied Materials & Interfaces, 2019, 11, 34364-34375.	8.0	58
87	The rapid photoresponsive bacteria-killing of Cu-doped MoS₂. Biomaterials Science, 2020, 8, 4216-4224.	5.4	57
88	Synthesis of nanoporous CuO/TiO2/Pd-NiO composite catalysts by chemical dealloying and their performance for methanol and ethanol electro-oxidation. Journal of Power Sources, 2017, 362, 10-19.	7.8	56
89	Nanocrystallization, good soft magnetic properties and ultrahigh mechanical strength for Fe82-85B13-16Si1Cu1 amorphous alloys. Journal of Alloys and Compounds, 2019, 785, 25-37.	5.5	56
90	Noble metal-based nanomaterials as antibacterial agents. Journal of Alloys and Compounds, 2022, 904, 164091.	5.5	56

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91	Near-infrared light photocatalysis and photothermy of carbon quantum dots and au nanoparticles loaded titania nanotube array. Materials and Design, 2019, 177, 107845.	7.0	55
92	Near-infrared light controlled fast self-healing protective coating on magnesium alloy. Corrosion Science, 2020, 163, 108257.	6.6	55
93	One-step synthesis of Mo and S co-doped porous g-C3N4 nanosheets for efficient visible-light photocatalytic hydrogen evolution. Applied Surface Science, 2021, 536, 147743.	6.1	55
94	Preparation of copper-coated Î²-SiC nanoparticles by electroless plating. Surface and Coatings Technology, 2011, 205, 2985-2988.	4.8	53
95	Eco-friendly Hybrids of Carbon Quantum Dots Modified MoS₂ for Rapid Microbial Inactivation by Strengthened Photocatalysis. ACS Sustainable Chemistry and Engineering, 2020, 8, 534-542.	6.7	53
96	Rapid Sterilization by Photocatalytic Ag₃PO₄/Î±-Fe₂O₃ Composites Using Visible Light. ACS Sustainable Chemistry and Engineering, 2020, 8, 2577-2585.	6.7	53
97	An UV to NIR-driven platform based on red phosphorus/graphene oxide film for rapid microbial inactivation. Chemical Engineering Journal, 2020, 383, 123088.	12.7	52
98	In situ synthesis of a novel Mn3O4/g-C3N4 p-n heterostructure photocatalyst for water splitting. Journal of Colloid and Interface Science, 2021, 586, 778-784.	9.4	52
99	MoO₂â€“CoO coupled with a macroporous carbon hybrid electrocatalyst for highly efficient oxygen evolution. Nanoscale, 2015, 7, 16704-16714.	5.6	51
100	3D microporous Co3O4-carbon hybrids biotemplated from butterfly wings as high performance VOCs gas sensor. Sensors and Actuators B: Chemical, 2016, 235, 420-431.	7.8	51
101	Photoelectric-Responsive Extracellular Matrix for Bone Engineering. ACS Nano, 2019, 13, 13581-13594.	14.6	51
102	Modulation of the mechanosensing of mesenchymal stem cells by laser-induced patterning for the acceleration of tissue reconstruction through the Wnt/Î²-catenin signaling pathway activation. Acta Biomaterialia, 2020, 101, 152-167.	8.3	51
103	Photoelectrons Mediating Angiogenesis and Immunotherapy through Heterojunction Film for Noninvasive Disinfection. Advanced Science, 2020, 7, 2000023.	11.2	51
104	New TiZrCuPd Quaternary Bulk Glassy Alloys with Potential of Biomedical Applications. Materials Transactions, 2007, 48, 2445-2448.	1.2	50
105	Extraordinary Supercapacitor Performance of a Multicomponent and Mixedâ€Valence Oxyhydroxide. Angewandte Chemie - International Edition, 2015, 54, 8100-8104.	13.8	50
106	Corrosion Behavior of a Ti-Based Bulk Metallic Glass and Its Crystalline Alloys. Materials Transactions, 2007, 48, 1855-1858.	1.2	49
107	Production methods and properties of engineering glassy alloys and composites. Intermetallics, 2015, 58, 20-30.	3.9	49
108	Development and application of Fe-based soft magnetic bulk metallic glassy inductors. Journal of Alloys and Compounds, 2018, 731, 1303-1309.	5.5	49

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109	Overcoming Multidrugâ€Resistant MRSA Using Conventional Aminoglycoside Antibiotics. Advanced Science, 2020, 7, 1902070.	11.2	49
110	High-performance five-ring-fused organic semiconductors for field-effect transistors. Chemical Society Reviews, 2022, 51, 3071-3122.	38.1	49
111	Microwave assisted antibacterial action of Garcinia nanoparticles on Gram-negative bacteria. Nature Communications, 2022, 13, 2461.	12.8	49
112	Ti oxide nano-porous surface structure prepared by dealloying of Tiâ€"Cu amorphous alloy. Electrochemistry Communications, 2011, 13, 250-253.	4.7	48
113	FeCo-based soft magnetic alloys with high Bs approaching 1.75ÂTÂandÂgood bending ductility. Journal of Alloys and Compounds, 2017, 691, 364-368.	5.5	48
114	Corrosion behavior and mechanical properties of Mgâ€"Znâ€"Ca amorphous alloys. Intermetallics, 2013, 42, 9-13.	3.9	47
115	The enhanced photocatalytic sterilization of MOF-Based nanohybrid for rapid and portable therapy of bacteria-infected open wounds. Bioactive Materials, 2022, 13, 200-211.	15.6	47
116	Syntheses and corrosion behaviors of Fe-based amorphous soft magnetic alloys with high-saturation magnetization near 1.7 T. Journal of Materials Research, 2015, 30, 547-555.	2.6	46
117	A Bi₂Te₃@CoNiMo composite as a high performance bifunctional catalyst for hydrogen and oxygen evolution reactions. Journal of Materials Chemistry A, 2015, 3, 22770-22780.	10.3	46
118	Formation, thermal stability and mechanical properties of high entropy (Fe,Co,Ni,Cr,Mo)-B amorphous alloys. Journal of Alloys and Compounds, 2018, 732, 637-645.	5.5	46
119	Synthesis of CuO/Co₃O₄Coaxial Heterostructures for Efficient and Recycling Photodegradation. International Journal of Photoenergy, 2015, 2015, 1-11.	2.5	45
120	Structure engineering of electrodeposited NiMoÂfilms for highly efficient and durable seawater splitting. Electrochimica Acta, 2021, 365, 137366.	5.2	45
121	Fabrication and Corrosion Property of Novel Ti-Based Bulk Glassy Alloys without Ni. Materials Transactions, 2007, 48, 515-518.	1.2	44
122	Ag2S decorated nanocubes with enhanced near-infrared photothermal and photodynamic properties for rapid sterilization. Colloids and Interface Science Communications, 2019, 33, 100201.	4.1	44
123	Rapid bacteria capturing and killing by AgNPs/N-CD@ZnO hybrids strengthened photo-responsive xerogel for rapid healing of bacteria-infected wounds. Chemical Engineering Journal, 2021, 414, 128805.	12.7	44
124	Influence of Zr content on phase transformation, microstructure and mechanical properties of Ti75â^'xNb25Zrx (x=0â€"6) alloys. Journal of Alloys and Compounds, 2009, 486, 628-632.	5.5	43
125	Synthesis of Î±-Fe2O3/g-C3N4 photocatalyst for high-efficiency water splitting under full light. Materials and Design, 2020, 196, 109191.	7.0	43
126	Formation, stability and ultrahigh strength of novel nanostructured alloys by partial crystallization of high-entropy (Fe0.25Co0.25Ni0.25Cr0.125Mo0.125)86â€'89B11â€'14 amorphous phase. Acta Materialia, 2019, 170, 50-61.	7.9	42

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127	Highly efficient nanoporous CoBP electrocatalyst for hydrogen evolution reaction. Rare Metals, 2021, 40, 1031-1039.	7.1	42
128	Simultaneously enhancing the photocatalytic and photothermal effect of NH2-MIL-125-GO-Pt ternary heterojunction for rapid therapy of bacteria-infected wounds. Bioactive Materials, 2022, 18, 421-432.	15.6	42
129	New Fe-based soft magnetic amorphous alloys with high saturation magnetization and good corrosion resistance for dust core application. Intermetallics, 2016, 76, 18-25.	3.9	41
130	Zn2+-assisted photothermal therapy for rapid bacteria-killing using biodegradable humic acid encapsulated MOFs. Colloids and Surfaces B: Biointerfaces, 2020, 188, 110781.	5.0	41
131	Sandwich structured Ni3S2-MoS2-Ni3S2@Ni foam electrode as a stable bifunctional electrocatalyst for highly sustained overall seawater splitting. Electrochimica Acta, 2021, 390, 138833.	5.2	41
132	Recent Progress in Ti-Based Metallic Glasses for Application as Biomaterials. Materials Transactions, 2013, 54, 1314-1323.	1.2	40
133	Corrosion behaviour of porous Ni-free Ti-based bulk metallic glass produced by spark plasma sintering in Hanks' solution. Intermetallics, 2014, 44, 55-59.	3.9	40
134	Self-supporting amorphous nanoporous NiFeCoP electrocatalyst for efficient overall water splitting. Journal of Materials Science and Technology, 2021, 82, 96-104.	10.7	40
135	The synergistic effect of strontium-substituted hydroxyapatite and microRNA-21 on improving bone remodeling and osseointegration. Biomaterials Science, 2018, 6, 2694-2703.	5.4	39
136	Two-Dimensional Lamellar Mo₂C for Electrochemical Hydrogen Production: Insights into the Origin of Hydrogen Evolution Reaction Activity in Acidic and Alkaline Electrolytes. ACS Applied Materials & Interfaces, 2018, 10, 40500-40508.	8.0	38
137	Unraveling the osteogenesis of magnesium by the activity of osteoblasts in vitro. Journal of Materials Chemistry B, 2018, 6, 6615-6621.	5.8	38
138	Highly Efficient and Self-Standing Nanoporous NiO/Al₃Ni₂ Electrocatalyst for Hydrogen Evolution Reaction. ACS Applied Energy Materials, 2019, 2, 7913-7922.	5.1	38
139	Development and Applications of Highly Functional Al-based Materials by Use of Metastable Phases. Materials Research, 2015, 18, 1414-1425.	1.3	37
140	Effects of hydrophobic layer on selective electrochemical nitrogen fixation of self-supporting nanoporous Mo4P3 catalyst under ambient conditions. Applied Catalysis B: Environmental, 2021, 286, 119895.	20.2	37
141	The nucleocapsid protein of SARS-associated coronavirus inhibits B23 phosphorylation. Biochemical and Biophysical Research Communications, 2008, 369, 287-291.	2.1	36
142	Effect of gas nitriding treatment on cavitation erosion behavior of commercially pure Ti and Tiâˆ’6Alâˆ’4V alloy. Surface and Coatings Technology, 2013, 221, 29-36.	4.8	36
143	Soluble interleukin-6 receptor is elevated during influenza A virus infection and mediates the IL-6 and IL-32 inflammatory cytokine burst. Cellular and Molecular Immunology, 2015, 12, 633-644.	10.5	36
144	Effect of porous NiTi alloy on bone formation: A comparative investigation with bulk NiTi alloy for 15Âweeks in vivo. Materials Science and Engineering C, 2008, 28, 1271-1275.	7.3	35

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145	Surface modification by gas nitriding for improving cavitation erosion resistance of CP-Ti. Applied Surface Science, 2014, 298, 164-170.	6.1	35
146	Novel deformation-induced polymorphic crystallization and softening of Al-based amorphous alloys. Acta Materialia, 2018, 147, 90-99.	7.9	35
147	Highly efficient amorphous np-PdFePC catalyst for hydrogen evolution reaction. Electrochimica Acta, 2019, 328, 135082.	5.2	35
148	The effects of a phytic acid/calcium ion conversion coating on the corrosion behavior and osteoinductivity of a magnesium-strontium alloy. Applied Surface Science, 2019, 484, 511-523.	6.1	35
149	Preparation of nickel-coated graphite by electroless plating under mechanical or ultrasonic agitation. Surface and Coatings Technology, 2014, 240, 425-431.	4.8	34
150	Nanoporous Nickelâ€“Molybdenum Oxide with an Oxygen Vacancy for Electrocatalytic Nitrogen Fixation under Ambient Conditions. ACS Applied Materials & Interfaces, 2021, 13, 30722-30730.	8.0	34
151	Self-supported Ni(OH)2/MnO2 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
152	Low-cost fabrication of amorphous cobalt-iron-boron nanosheets for high-performance asymmetric supercapacitors. Electrochimica Acta, 2019, 296, 198-205.	5.2	33
153	Effect of Minor Sn Additions on the Formation and Properties of TiCuZrPd Bulk Glassy Alloy. Materials Transactions, 2012, 53, 500-503.	1.2	32
154	Al_{0.5}TiZrPdCuNi High-Entropy (H-E) Alloy Developed through Ti₂₀Zr₂₀Pd₂₀Cu₂₀Ni<sub>20</su H-E Glassy Alloy Comprising Inter-Transition Metals. Materials Transactions, 2013, 54, 776-782.	1.2	32
155	Hierarchical Ni3S4@MoS2 nanocomposites as efficient electrocatalysts for hydrogen evolution reaction. Journal of Materials Science and Technology, 2021, 95, 70-77.	10.7	32
156	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
157	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
158	Oxygen Vacanciesâ€Rich Heterojunction of Ti₃C₂/BiOBr for Photoâ€Excited Antibacterial Textiles. Small, 2022, 18, e2104448.	10.0	31
159	Formation of bonelike apatiteâ€“collagen composite coating on the surface of NiTi shape memory alloy. Scripta Materialia, 2006, 54, 89-92.	5.2	30
160	Evolution of palladium/copper oxideâ€“titanium dioxide nanostructures by dealloying and their catalytic performance for methanol electro-oxidation. Journal of Power Sources, 2015, 274, 1034-1042.	7.8	30
161	Design and synthesis of MWNTs-TiO 2 nanotube hybrid electrode and its supercapacitance performance. Journal of Power Sources, 2015, 283, 397-407.	7.8	30
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