

Jiaqian Qin

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164
papers

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172
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6,856
ext. citations

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L-index

#	Paper	IF	Citations
164	Effect of aspect ratio and surface defects on the photocatalytic activity of ZnO nanorods. <i>Scientific Reports</i> , 2014 , 4, 4596	4.9	624
163	Ce(3+)-ion-induced visible-light photocatalytic degradation and electrochemical activity of ZnO/CeO ₂ nanocomposite. <i>Scientific Reports</i> , 2016 , 6, 31641	4.9	435
162	Tuning of metal oxides photocatalytic performance using Ag nanoparticles integration. <i>Journal of Molecular Liquids</i> , 2020 , 314, 113588	6	225
161	Carbon-Doped ZnO Nanostructures: Facile Synthesis and Visible Light Photocatalytic Applications. <i>Journal of Physical Chemistry C</i> , 2015 , 119, 20544-20554	3.8	163
160	Is Rhenium Diboride a Superhard Material?. <i>Advanced Materials</i> , 2008 , 20, 4780-4783	24	157
159	Rational design of carbon-doped TiO ₂ modified g-C ₃ N ₄ via in-situ heat treatment for drastically improved photocatalytic hydrogen with excellent photostability. <i>Nano Energy</i> , 2017 , 41, 1-9	17.1	140
158	ZnO microspheres-reduced graphene oxide nanocomposite for photocatalytic degradation of methylene blue dye. <i>Applied Surface Science</i> , 2017 , 392, 196-203	6.7	135
157	Synthesis, Crystal Structure, and Elastic Properties of Novel Tungsten Nitrides. <i>Chemistry of Materials</i> , 2012 , 24, 3023-3028	9.6	127
156	Two-dimensional porous sheet-like carbon-doped ZnO/g-C ₃ N ₄ nanocomposite with high visible-light photocatalytic performance. <i>Materials Letters</i> , 2017 , 189, 156-159	3.3	84
155	Heterostructured d-Ti C /TiO g-C N Nanocomposites with Enhanced Visible-Light Photocatalytic Hydrogen Production Activity. <i>ChemSusChem</i> , 2018 , 11, 4226-4236	8.3	84
154	Degradation of azo dyes under different wavelengths of UV light with chitosan-SnO ₂ nanocomposites. <i>Journal of Molecular Liquids</i> , 2017 , 232, 423-430	6	78
153	Manipulating Crystallographic Orientation of Zinc Deposition for Dendrite-free Zinc Ion Batteries. <i>Advanced Energy Materials</i> , 2021 , 11, 2101299	21.8	77
152	Mechanochemical synthesis of Ag/TiO ₂ for photocatalytic methyl orange degradation and hydrogen production. <i>Chemical Engineering Research and Design</i> , 2018 , 120, 339-347	5.5	74
151	Charge Engineering of MoC@Defect-Rich N-Doped Carbon Nanosheets for Efficient Electrocatalytic H ₂ Evolution. <i>Nano-Micro Letters</i> , 2019 , 11, 45	19.5	68
150	Porous carbon-doped TiO ₂ on TiC nanostructures for enhanced photocatalytic hydrogen production under visible light. <i>Journal of Catalysis</i> , 2017 , 347, 36-44	7.3	67
149	Polymeric materials and films in dentistry: An overview. <i>Journal of Advanced Research</i> , 2018 , 14, 25-34	13	65
148	NiCoP nanoleaves array for electrocatalytic alkaline H ₂ evolution and overall water splitting. <i>Journal of Energy Chemistry</i> , 2020 , 50, 395-401	12	64

147	A facile synthesis of nanorods of ZnO/graphene oxide composites with enhanced photocatalytic activity. <i>Applied Surface Science</i> , 2014 , 321, 226-232	6.7	62
146	A universal and facile approach to suppress dendrite formation for a Zn and Li metal anode. <i>Journal of Materials Chemistry A</i> , 2020 , 8, 9331-9344	13	62
145	Ionic Liquid-Based Electrolytes for Energy Storage Devices: A Brief Review on Their Limits and Applications. <i>Polymers</i> , 2020 , 12,	4.5	61
144	Vanadium-Based Oxide on Two-Dimensional Vanadium Carbide MXene (V ₂ O _x @V ₂ CT _x) as Cathode for Rechargeable Aqueous Zinc-Ion Batteries. <i>ACS Applied Energy Materials</i> , 2020 , 3, 4677-4689	6.1	61
143	Oxygen defect enriched (NH ₄) ₂ V ₁₀ O ₂₅ ·BH ₂ O nanosheets for superior aqueous zinc-ion batteries. <i>Nano Energy</i> , 2021 , 84, 105876	17.1	59
142	Fabrication of hierarchical porous ZnO/NiO hollow microspheres for adsorptive removal of Congo red. <i>Applied Surface Science</i> , 2018 , 435, 1002-1010	6.7	56
141	Inhibition of Manganese Dissolution in Mn ₂ O ₃ Cathode with Controllable Ni ²⁺ Incorporation for High-Performance Zinc Ion Battery. <i>Advanced Functional Materials</i> , 2021 , 31, 2009412	15.6	54
140	Visible Light-Driven Photocatalytic H ₂ Generation and Mechanism Insights into Bi ₂ O ₂ CO ₃ /G-C ₃ N ₄ Z-Scheme Photocatalyst. <i>Journal of Physical Chemistry C</i> , 2019 , 123, 4795-4804	3.8	53
139	NiMn Layered Double Hydroxide Nanosheets In-situ Anchored on Ti ₃ C ₂ MXene via Chemical Bonds for Superior Supercapacitors. <i>ACS Applied Energy Materials</i> , 2020 , 3, 5949-5964	6.1	53
138	NiCo-LDH/Ti ₃ C ₂ MXene hybrid materials for lithium ion battery with high-rate capability and long cycle life. <i>Journal of Energy Chemistry</i> , 2020 , 50, 143-153	12	51
137	WS and C-TiO Nanorods Acting as Effective Charge Separators on g-C ₃ N ₄ to Boost Visible-Light Activated Hydrogen Production from Seawater. <i>ChemSusChem</i> , 2018 , 11, 4077-4085	8.3	50
136	Heterogeneous structural defects to prompt charge shuttle in g-C ₃ N ₄ plane for boosting visible-light photocatalytic activity. <i>Applied Catalysis B: Environmental</i> , 2019 , 259, 118094	21.8	46
135	Mechanochemical reactions of MnO ₂ and graphite nanosheets as a durable zinc ion battery cathode. <i>Applied Surface Science</i> , 2020 , 534, 147630	6.7	45
134	Facile Electrodeposition of Ni-Cu-P Dendrite Nanotube Films with Enhanced Hydrogen Evolution Reaction Activity and Durability. <i>ACS Applied Materials & Interfaces</i> , 2018 , 10, 35224-35233	9.5	44
133	A nanocomposite prepared from platinum particles, polyaniline and a TiC MXene for amperometric sensing of hydrogen peroxide and lactate. <i>Mikrochimica Acta</i> , 2019 , 186, 752	5.8	42
132	First-principles structural design of superhard material of ZrB ₄ . <i>Physical Chemistry Chemical Physics</i> , 2013 , 15, 20894-9	3.6	42
131	Modulating Zn deposition via ceramic-cellulose separator with interfacial polarization effect for durable zinc anode. <i>Nano Energy</i> , 2021 , 89, 106322	17.1	38
130	Low-compressibility of tungsten tetraboride: a high pressure X-ray diffraction study. <i>High Pressure Research</i> , 2011 , 31, 275-282	1.6	37

129	First principle study of elastic and thermodynamic properties of FeB ₄ under high pressure. <i>Journal of Applied Physics</i> , 2013 , 114, 183517	2.5	36
128	Strategies of regulating Zn ²⁺ solvation structures for dendrite-free and side reaction-suppressed zinc-ion batteries. <i>Energy and Environmental Science</i> ,	35.4	36
127	TMN ₄ complex embedded graphene as bifunctional electrocatalysts for high efficiency OER/ORR. <i>Journal of Energy Chemistry</i> , 2021 , 55, 437-443	12	36
126	ZnO@graphene nanocomposite modified electrode for sensitive and simultaneous detection of Cd (II) and Pb (II). <i>Synthetic Metals</i> , 2018 , 245, 251-259	3.6	36
125	Revealing Ni-based layered double hydroxides as high-efficiency electrocatalysts for the oxygen evolution reaction: a DFT study. <i>Journal of Materials Chemistry A</i> , 2019 , 7, 23091-23097	13	35
124	Insights into the Li ⁺ storage mechanism of TiC@C-TiO ₂ core-shell nanostructures as high performance anodes. <i>Nano Energy</i> , 2018 , 50, 25-34	17.1	35
123	Effect of electrodeposition conditions on structure and mechanical properties of Ni-W/diamond composite coatings. <i>Surface and Coatings Technology</i> , 2017 , 309, 337-343	4.4	33
122	Constructing MoS ₂ /g-C ₃ N ₄ heterojunction with enhanced oxygen evolution reaction activity: A theoretical insight. <i>Applied Surface Science</i> , 2020 , 510, 145489	6.7	30
121	Study of high-pressure sintering behavior of cBN composites starting with cBN/Al mixtures. <i>Journal of Materials Research</i> , 2008 , 23, 2366-2372	2.5	30
120	Nanosized Fe ₃ O ₄ incorporated on a TiO ₂ surface for the enhanced photocatalytic degradation of organic pollutants. <i>Journal of Molecular Liquids</i> , 2019 , 287, 110967	6	29
119	Synthesis of hierarchical porous flower-like ZnO-AlOOH structures and their applications in adsorption of Congo Red. <i>Chemical Physics Letters</i> , 2017 , 687, 143-151	2.5	27
118	Phase relations in boron at pressures up to 18 GPa and temperatures up to 2200 °C. <i>Physical Review B</i> , 2012 , 85,	3.3	27
117	Ultrasonic and hardness measurements for ultrahigh pressure prepared WB ceramics. <i>International Journal of Refractory Metals and Hard Materials</i> , 2011 , 29, 329-331	4.1	27
116	Synthesis of hierarchical structured rare earth metal doped Co ₃ O ₄ by polymer combustion method for high performance electrochemical supercapacitor electrode materials. <i>Ionics</i> , 2020 , 26, 2051-2061	2.7	27
115	Ultrahigh-pressure densification of nanocrystalline WB ceramics. <i>Journal of Materials Research</i> , 2010 , 25, 637-640	2.5	26
114	Enhancement of Hydrogen Evolution Reaction Performance of Graphitic Carbon Nitride with Incorporated Nickel Boride. <i>ACS Sustainable Chemistry and Engineering</i> , 2018 , 6, 16198-16204	8.3	25
113	Corrosion Resistance of Graphene oxide/Silver Coatings on Ni-Ti alloy and Expression of IL-6 and IL-8 in Human Oral Fibroblasts. <i>Scientific Reports</i> , 2020 , 10, 3247	4.9	24
112	Phase stability of Ti ₃ SiC ₂ at high pressure and high temperature. <i>Ceramics International</i> , 2013 , 39, 9361-9367	3.3	24

111	Heterostructures of mesoporous TiO and SnO nanocatalyst for improved electrochemical oxidation ability of vitamin B6 in pharmaceutical tablets. <i>Journal of Colloid and Interface Science</i> , 2019 , 542, 45-53	9.3	23
110	Preparation and hardness of pulse electrodeposited Ni/W/diamond composite coatings. <i>Surface and Coatings Technology</i> , 2015 , 276, 228-232	4.4	23
109	Synthesis of nickel hydroxide/delaminated-Ti3C2 MXene nanosheets as promising anode material for high performance lithium ion battery. <i>Journal of Alloys and Compounds</i> , 2020 , 842, 155812	5.7	23
108	Stabilizing zinc anode via a chelation and desolvation electrolyte additive 2021 ,		23
107	High-throughput identification of high activity and selectivity transition metal single-atom catalysts for nitrogen reduction. <i>Nano Energy</i> , 2021 , 80, 105527	17.1	23
106	Synthesis of Onion-Like EMoN Catalyst for Selective Hydrogenation. <i>Journal of Physical Chemistry C</i> , 2017 , 121, 19451-19460	3.8	21
105	NiMn-Layered Double Hydroxides Chemically Anchored on Ti3C2 MXene for Superior Lithium Ion Storage. <i>ACS Applied Energy Materials</i> , 2020 , 3, 11119-11130	6.1	21
104	Elimination of Zinc Dendrites by Graphene Oxide Electrolyte Additive for Zinc-Ion Batteries. <i>ACS Applied Energy Materials</i> , 2021 , 4, 4602-4609	6.1	21
103	Structure and mechanical properties of tungsten mononitride under high pressure from first-principles calculations. <i>Computational Materials Science</i> , 2013 , 79, 456-462	3.2	20
102	Compressibility and strength of nanocrystalline tungsten boride under compression to 60 GPa. <i>Journal of Applied Physics</i> , 2012 , 111, 123514	2.5	20
101	Differential thermal analysis study of phase segregation of Ti2AlC under high pressure and high temperature. <i>Journal of Alloys and Compounds</i> , 2009 , 476, L8-L10	5.7	20
100	Mechanical, electronic and thermal properties of Cu5Zr and Cu5Hf by first-principles calculations. <i>Journal of Alloys and Compounds</i> , 2015 , 640, 455-461	5.7	19
99	Pressure-induced coordination changes in LiBO2. <i>Journal of Solid State Chemistry</i> , 2009 , 182, 3041-3048	3.3	18
98	One-pot method to synthesis polyaniline wrapped graphene aerogel/silver nanoparticle composites for solid-state supercapacitor devices. <i>Materials Letters</i> , 2018 , 217, 104-108	3.3	17
97	Polycrystalline Eboron: As hard as polycrystalline cubic boron nitride. <i>Scripta Materialia</i> , 2012 , 67, 257-260	6.6	17
96	Co-electrodeposition of hard Ni-W/diamond nanocomposite coatings. <i>Scientific Reports</i> , 2016 , 6, 22285	4.9	16
95	Facile synthesis of a ZnO-BiOI p-n nano-heterojunction with excellent visible-light photocatalytic activity. <i>Beilstein Journal of Nanotechnology</i> , 2018 , 9, 789-800	3	16
94	Pressure-induced zigzag phosphorus chain and superconductivity in boron monophosphide. <i>Scientific Reports</i> , 2015 , 5, 8761	4.9	16

93	Graphene Oxide/Silver Nanoparticle Coating Produced by Electrophoretic Deposition Improved the Mechanical and Tribological Properties of NiTi Alloy for Biomedical Applications. <i>Journal of Nanoscience and Nanotechnology</i> , 2019 , 19, 3804-3810	1.3	15
92	Eco-Friendly Conductive Cotton-Based Textile Electrodes Using Silver- and Carbon-Coated Fabrics for Advanced Flexible Supercapacitors. <i>Energy & Fuels</i> , 2020 , 34, 8977-8986	4.1	15
91	A liquid chromatography-tandem mass spectrometry (LC-MS/MS)-based assay to profile 20 plasma steroids in endocrine disorders. <i>Clinical Chemistry and Laboratory Medicine</i> , 2020 , 58, 1477-1487	5.9	15
90	First principle study of elastic and thermodynamic properties of ZrZn ₂ and HfZn ₂ under high pressure. <i>Journal of Applied Physics</i> , 2014 , 115, 083514	2.5	15
89	Two Birds with One Stone: Boosting Zinc-Ion Insertion/Extraction Kinetics and Suppressing Vanadium Dissolution of VO via La Incorporation Enable Advanced Zinc-Ion Batteries. <i>ACS Applied Materials & Interfaces</i> , 2021 , 13, 38416-38424	9.5	15
88	Strain stiffening, high load-invariant hardness, and electronic anomalies of boron phosphide under pressure. <i>Physical Review B</i> , 2020 , 101,	3.3	14
87	Spatial Separation of Charge Carriers via Heterogeneous Structural Defects in Graphitic Carbon Nitride for Photocatalytic Hydrogen Evolution. <i>ACS Applied Nano Materials</i> , 2020 , 3, 4428-4436	5.6	14
86	Phase segregation of titanium-aluminium carbide (Ti ₂ AlC) at high pressure and high temperature. <i>Journal of Alloys and Compounds</i> , 2008 , 462, L24-L27	5.7	14
85	Elastic, magnetic and electronic properties of iridium phosphide Ir ₂ P. <i>Scientific Reports</i> , 2016 , 6, 21787	4.9	14
84	Effect of Zr addition on the microstructure and tribological property of the anodization of Ti-6Al-4V alloy. <i>Surface and Coatings Technology</i> , 2018 , 356, 38-48	4.4	14
83	Stability of titanium-aluminium nitride (Ti ₂ AlN) at high pressure and high temperatures. <i>Journal Wuhan University of Technology, Materials Science Edition</i> , 2011 , 26, 914-919	1	13
82	Disorder-activated Raman spectra of cubic rocksalt-type Li(1-x)/2Ga(1-x)/2MxO (M = Mg, Zn) alloys. <i>Journal of Applied Physics</i> , 2012 , 112, 043501	2.5	13
81	Regulating solvation structure to stabilize zinc anode by fastening the free water molecules with an inorganic colloidal electrolyte. <i>Nano Energy</i> , 2022 , 93, 106839	17.1	13
80	Microstructures and photocatalytic properties of ZnO films fabricated by Zn electrodeposition and heat treatment. <i>Materials Science in Semiconductor Processing</i> , 2018 , 74, 232-237	4.3	13
79	Ti ₃ C ₂ MXene-Encapsulated NiFe-LDH Hybrid Anode for High-Performance Lithium-Ion Batteries and Capacitors. <i>ACS Applied Energy Materials</i> , 2021 , 4, 7821-7828	6.1	13
78	Effects of Ni and Ti on the phase stability, martensitic transformation and mechanical properties of B2 CuZr phase. <i>Computational Materials Science</i> , 2015 , 110, 121-125	3.2	12
77	First-principles calculations of structural stability and mechanical properties of tungsten carbide under high pressure. <i>Journal of Physics and Chemistry of Solids</i> , 2014 , 75, 1234-1239	3.9	12
76	High-pressure Raman spectroscopy study of LiGaO ₂ . <i>Solid State Communications</i> , 2013 , 164, 6-10	1.6	12

75	Nanocrystalline MoS ₂ through directional growth along the (002) crystal plane under high pressure. <i>Materials Chemistry and Physics</i> , 2011 , 130, 170-174	4.4	12
74	Ni-Co Double Hydroxide Grown on Graphene Oxide for Enhancing Lithium Ion Storage. <i>Energy & Fuels</i> , 2020 , 34, 13032-13037	4.1	12
73	Improving the microstructure and mechanical properties of Zr-Ti alloy by nickel addition. <i>Journal of Alloys and Compounds</i> , 2018 , 737, 405-411	5.7	12
72	Theoretical prediction of structural stability, electronic and elastic properties of ZrSi ₂ under pressure. <i>RSC Advances</i> , 2015 , 5, 36779-36786	3.7	11
71	Non-invasive electrochemical immunosensor for sweat cortisol based on L-cys/AuNPs/ MXene modified thread electrode.. <i>Biosensors and Bioelectronics</i> , 2022 , 203, 114039	11.8	11
70	Strongly coupled tungsten oxide/carbide heterogeneous hybrid for ultrastable aqueous rocking-chair zinc-ion batteries. <i>Chemical Engineering Journal</i> , 2021 , 426, 131893	14.7	11
69	Anisotropy in elasticity and thermodynamic properties of zirconium tetraboride under high pressure. <i>RSC Advances</i> , 2015 , 5, 77399-77406	3.7	10
68	Facile synthesis of graphene-AgVO ₃ nanocomposite with excellent supercapacitor performance. <i>Materials Chemistry and Physics</i> , 2018 , 212, 30-34	4.4	10
67	Effect of Ag ⁺ and PO ₄ ³⁻ ratios on the microstructure and photocatalytic activity of Ag ₃ PO ₄ . <i>Functional Materials Letters</i> , 2016 , 09, 1650063	1.2	10
66	Deformation-induced bonding evolution of iron tetraboride and its electronic origin. <i>Physica Status Solidi - Rapid Research Letters</i> , 2013 , 7, 1022-1025	2.5	10
65	Anchoring Mo on C ₉ N ₄ monolayers as an efficient single atom catalyst for nitrogen fixation. <i>Journal of Energy Chemistry</i> , 2021 , 57, 443-450	12	10
64	Revealing the impacts of oxygen defects on Zn ²⁺ storage performance in V ₂ O ₅ . <i>Materials Today Energy</i> , 2021 , 21, 100824	7	10
63	First-principles study of ZrC _x N _{1-x} alloys with electron concentration modulation. <i>Journal of Materials Science</i> , 2013 , 48, 7743-7748	4.3	9
62	The high concentration and uniform distribution of diamond particles in Ni-diamond composite coatings by sediment co-deposition. <i>Surface and Interface Analysis</i> , 2015 , 47, 331-339	1.5	9
61	Surface Adhesion Properties and Cytotoxicity of Graphene Oxide Coatings and Graphene Oxide/Silver Nanocomposite Coatings on Biomedical NiTi Alloy. <i>Science of Advanced Materials</i> , 2019 , 11, 1474-1487	2.3	9
60	Electrodeposition and Mechanical Properties of Ni-W Matrix Composite Coatings with Embedded Amorphous Boron Particles. <i>International Journal of Electrochemical Science</i> , 2016 , 9529-9541	2.2	8
59	Mechanical and electronic properties of Rh and Rh ₃ Zr from first-principles calculation. <i>Solid State Communications</i> , 2014 , 189, 43-46	1.6	8
58	Photosynthesis of H ₂ and its storage on the Bandgap Engineered Mesoporous (Ni ²⁺ /Ni ³⁺)O @ TiO ₂ heterostructure. <i>Journal of Power Sources</i> , 2020 , 466, 228305	8.9	8

57	Strength and grain refinement of Ti-30Zr-5Al-3V alloy by Fe addition. <i>Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2017 , 691, 25-30	5.3	7
56	Elastic and thermodynamic properties of Rh and Rh3Zr under pressure from first-principles calculation. <i>Materials Chemistry and Physics</i> , 2015 , 149-150, 553-558	4.4	7
55	Occurrences and removal of pharmaceutical and personal care products from aquatic systems using advanced treatment- A review. <i>Environmental Research</i> , 2022 , 204, 112298	7.9	7
54	Ni3S2 Nanoparticles Anchored on d-Ti3C2 Nanosheets with Enhanced Sodium Storage. <i>ACS Applied Energy Materials</i> , 2021 , 4, 2593-2599	6.1	7
53	Rational design and synthesis of SiC/TiC@SiO/TiO porous core-shell nanostructure with excellent Li-ion storage performance. <i>Chemical Communications</i> , 2018 , 54, 12622-12625	5.8	7
52	Effects of iron content on the microstructure and corrosion behavior of Ti-30Zr-5Al-3V-xFe alloys. <i>Materials Chemistry and Physics</i> , 2018 , 218, 87-97	4.4	6
51	Portable high pressure sapphire anvil cell for gas hydrates research. <i>Review of Scientific Instruments</i> , 2010 , 81, 085102	1.7	6
50	Strength and bonding nature of superhard Z-carbon from first-principle study. <i>AIP Advances</i> , 2012 , 2, 022160	1.5	6
49	Synthesis of low-density from high-density in the presence of melt under high pressure. <i>Solid State Communications</i> , 2010 , 150, 2106-2108	1.6	6
48	TiO/MXene-PVA/GO hydrogel-based electrochemical sensor for neurological disorder screening via urinary norepinephrine detection. <i>Mikrochimica Acta</i> , 2021 , 188, 387	5.8	6
47	A new 3D composite of V2O5-based biodegradable ceramic material prepared by an environmentally friendly thermal method for supercapacitor applications. <i>Environmental Technology and Innovation</i> , 2021 , 22, 101474	7	6
46	Biofilm inhibition and bactericidal activity of NiTi alloy coated with graphene oxide/silver nanoparticles via electrophoretic deposition. <i>Scientific Reports</i> , 2021 , 11, 14008	4.9	6
45	Effect of oxygen concentration on the tension and shear strength of Zr-O system: A first-principles study. <i>Journal of Alloys and Compounds</i> , 2019 , 781, 919-928	5.7	6
44	Thermal behaviour of calcite-structure carbonates: a powder X-ray diffraction study between 83 and 618 K. <i>European Journal of Mineralogy</i> , 2018 , 30, 939-949	2.2	6
43	Nanosized Titania-Nickel mixed oxide for visible light photocatalytic activity. <i>Journal of Molecular Liquids</i> , 2020 , 311, 113328	6	5
42	Distinct electron density topologies and elastic properties of two similar omega phases: Ω_{Zr} and Zr_2Al . <i>Journal of Alloys and Compounds</i> , 2016 , 660, 316-323	5.7	5
41	In situ high pressure synthesis of cBN-based composites. <i>Functional Materials Letters</i> , 2014 , 07, 1450040	1.2	5
40	Recent advances in oxygen electrocatalysts based on tunable structural polymers. <i>Materials Today Chemistry</i> , 2022 , 23, 100632	6.2	5

39	Exploring the effects of solute segregation on the strength of Zr {101 $\bar{1}$ } grain boundary: A first-principles study. <i>Journal of Alloys and Compounds</i> , 2020 , 812, 152153	5.7	5
38	Transition metal single-atom anchored g-CN monolayer for constructing high-activity multifunctional electrocatalyst. <i>Applied Surface Science</i> , 2021 , 565, 150547	6.7	5
37	Flower-like W/WO as a novel cathode for aqueous zinc-ion batteries. <i>Chemical Communications</i> , 2021 , 57, 7549-7552	5.8	5
36	Phase competition mediated by composition and pressure in Zr ₂ Cu _{1-x} Ni system. <i>Journal of Alloys and Compounds</i> , 2015 , 618, 73-77	5.7	4
35	High pressure and high temperature sintering of fine-grained PCD using bi-layered assembly. <i>High Pressure Research</i> , 2009 , 29, 325-334	1.6	4
34	In situ electrical resistance study of Ti ₂ AlC to 6 GPa. <i>Solid State Communications</i> , 2008 , 148, 431-434	1.6	4
33	A long-standing polarized electric field in TiO ₂ @BaTiO ₃ /CdS nanocomposite for effective photocatalytic hydrogen evolution. <i>Fuel</i> , 2022 , 314, 122758	7.1	4
32	Ultrarapid synthesis Ni-Cu bifunctional electrocatalyst by self-etching electrodeposition for high-performance water splitting reaction. <i>Applied Surface Science</i> , 2021 , 561, 150030	6.7	4
31	Influence of Co Ions on the Microstructure and Mechanical Properties of Ni-W/Diamond Nano-Composite Coatings. <i>Journal of Nanoscience and Nanotechnology</i> , 2019 , 19, 4083-4089	1.3	3
30	First-principles investigations of structural, electronic, optical and thermodynamic properties of Cd _x Mg _{1-x} S alloys. <i>Computational Materials Science</i> , 2015 , 101, 242-247	3.2	3
29	Vacancy mediated alloying strengthening effects on Al/Al ₃ Zr interface and stabilization of L1 ₂ -Al ₃ Zr: A first-principles study. <i>Journal of Alloys and Compounds</i> , 2020 , 825, 153825	5.7	3
28	Structural, elastic and anisotropic properties of CuZr from first-principles calculations. <i>Materials Chemistry and Physics</i> , 2018 , 203, 166-172	4.4	3
27	Origin of distinct hydrogen absorption behavior of Zr ₂ Pd and ZrPd ₂ . <i>International Journal of Hydrogen Energy</i> , 2016 , 41, 1736-1743	6.7	3
26	SiC _x /TiC _x Nanostructured Material from Ti ₃ SiC ₂ for High Rate Performance of Lithium Storage. <i>ChemistrySelect</i> , 2019 , 4, 7766-7772	1.8	3
25	Boosting visible-light hydrogen evolution on CdS hollow nanospheres with CoN as cocatalyst. <i>Fuel</i> , 2022 , 316, 123307	7.1	3
24	Polypyrrole nanoparticles embedded nitrogen-doped graphene composites as novel cathode for long life cycles and high-power zinc-ion hybrid supercapacitors.. <i>RSC Advances</i> , 2021 , 11, 35205-35214	3.7	3
23	A self-sacrifice template strategy to synthesize Co-LDH/MXene for lithium-ion batteries. <i>Chemical Communications</i> , 2021 , 57, 11378-11381	5.8	3
22	Hardness and tribological properties of co-electrodeposited Ni-W-B/B coatings. <i>Surface and Coatings Technology</i> , 2020 , 402, 126313	4.4	3

21	Preparation of MXene/N, S doped graphene electrode for supercapacitor application. <i>IOP Conference Series: Materials Science and Engineering</i> , 2019 , 600, 012008	0.4	3
20	A facile template synthesis of phosphorus-doped graphitic carbon nitride hollow structures with high photocatalytic hydrogen production activity. <i>Materials Chemistry and Physics</i> , 2021 , 275, 125299	4.4	3
19	Mechanical-assisted preparation and photocatalytic properties of almost-visible light-driven ZnO/ZnFe ₂ O ₄ nanocomposites. <i>Materials Research Society Symposia Proceedings</i> , 2014 , 1641, 1		2
18	Effect of Saccharin Sodium on the Microstructure and Hardness of Electrodeposited Ni-W Coatings. <i>Key Engineering Materials</i> , 2015 , 659, 535-539	0.4	2
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