Zheng Xiao Guo

List of Publications by Year
in descending order

272 papers	18,962 citations	13827 67 h-index	13727 129 g-index
279 all docs	279 docs citations	279 times ranked	23373 citing authors

#	Article	IF	Citations
1	Visible-light driven heterojunction photocatalysts for water splitting â€“ a critical review. Energy and Environmental Science, 2015, 8, 731-759.	15.6	1,985
2	Highly Efficient Photocatalytic H₂ Evolution from Water using Visible Light and Structureâ€Controlled Graphitic Carbon Nitride. Angewandte Chemie - International Edition, 2014, 53, 9240-9245.	7.2	1,000
3	Graphene-based materials: Synthesis and gas sorption, storage and separation. Progress in Materials Science, 2015, 69, 1-60.	16.0	601
4	Active sites engineering leads to exceptional ORR and OER bifunctionality in P,N Co-doped graphene frameworks. Energy and Environmental Science, 2017, 10, 1186-1195.	15.6	431
5	Multivalency-Driven Formation of Te-Based Monolayer Materials: A Combined First-Principles and Experimental study. Physical Review Letters, 2017, 119, 106101.	2.9	409
6	Coupled quantitative simulation of microstructural evolution and plastic flow during dynamic recrystallization. Acta Materialia, 2001, 49, 3163-3175.	3.8	395
7	Exceptional CO₂capture in a hierarchically porous carbon with simultaneous high surface area and pore volume. Energy and Environmental Science, 2014, 7, 335-342.	15.6	385
8	Tuning the interlayer spacing of graphene laminate films for efficient pore utilization towards compact capacitive energy storage. Nature Energy, 2020, 5, 160-168.	19.8	381
9	Mechanical alloying and electronic simulations of (MgH2+M) systems (M=Al, Ti, Fe, Ni, Cu and Nb) for hydrogen storage. International Journal of Hydrogen Energy, 2004, 29, 73-80.	3.8	376
10	Microstructural evolution of a Tiâ€“6Alâ€“4V alloy during thermomechanical processing. Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing, 2002, 327, 233-245.	2.6	358
11	Strain and Orientation Modulated Bandgaps and Effective Masses of Phosphorene Nanoribbons. Nano Letters, 2014, 14, 4607-4614.	4.5	306
12	Switching effective oxygen reduction and evolution performance by controlled graphitization of a cobaltâ€“nitrogenâ€“carbon framework system. Energy and Environmental Science, 2016, 9, 1661-1667.	15.6	281
13	Materials challenges for the development of solid sorbents for post-combustion carbon capture. Journal of Materials Chemistry, 2012, 22, 2815-2823.	6.7	255
14	Theoretical study of the effects of alloying elements on the strength and modulus of Î²-type bio-titanium alloys. Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing, 1999, 260, 269-274.	2.6	248
15	Highâ€Performance Allâ€Carbon Yarn Microâ€Supercapacitor for an Integrated Energy System. Advanced Materials, 2014, 26, 4100-4106.	11.1	223
16	A thermally derived and optimized structure from ZIF-8 with giant enhancement in CO₂ uptake. Energy and Environmental Science, 2014, 7, 2232-2238.	15.6	222
17	Efficient visible light-driven water oxidation and proton reduction by an ordered covalent triazine-based framework. Energy and Environmental Science, 2018, 11, 1617-1624.	15.6	212
18	Flexible and Binderâ€Free Organic Cathode for Highâ€Performance Lithiumâ€Ion Batteries. Advanced Materials, 2014, 26, 3338-3343.	11.1	200

#	Article	IF	Citations
19	Highly effective sites and selectivity of nitrogen-doped graphene/CNT catalysts for CO₂electrochemical reduction. Chemical Science, 2016, 7, 1268-1275.	3.7	199
20	Tuning of ZIFâ€Derived Carbon with High Activity, Nitrogen Functionality, and Yield â€“ A Case for Superior CO₂ Capture. ChemSusChem, 2015, 8, 2123-2132.	3.6	197
21	Effect of ultrasound on anti-solvent crystallization process. Journal of Crystal Growth, 2005, 273, 555-563.	0.7	194
22	Reaction synthesis of TiB2â€“TiC composites with enhanced toughness. Acta Materialia, 2001, 49, 1463-1470.	3.8	190
23	Influence of selected alloying elements on the stability of magnesium dihydride for hydrogen storage applications:â€ƒA first-principles investigation. Physical Review B, 2004, 69, .	1.1	185
24	Unique hole-accepting carbon-dots promoting selective carbon dioxide reduction nearly 100% to methanol by pure water. Nature Communications, 2020, 11, 2531.	5.8	168
25	Effect of carbon on hydrogen desorption and absorption of mechanically milled MgH2. Journal of Power Sources, 2004, 129, 73-80.	4.0	158
26	Effects of different carbon materials on MgH2 decomposition. Carbon, 2008, 46, 126-137.	5.4	158
27	Microstructural evolution of a Tiâ€“6Alâ€“4V alloy during Î²-phase processing: experimental and simulative investigations. Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing, 2004, 365, 172-179.	2.6	157
28	Co-enhanced SiO2-BN ceramics for high-temperature dielectric applications. Journal of the European Ceramic Society, 2000, 20, 1923-1928.	2.8	151
29	Fe₂O₃â€“TiO₂ Nanocomposites for Enhanced Charge Separation and Photocatalytic Activity. Chemistry - A European Journal, 2014, 20, 15571-15579.	1.7	146
30	Highly crystallized Î±-FeOOH for a stable and efficient oxygen evolution reaction. Journal of Materials Chemistry A, 2017, 5, 2021-2028.	5.2	140
31	Superacidity in Nafion/MOF Hybrid Membranes Retains Water at Low Humidity to Enhance Proton Conduction for Fuel Cells. ACS Applied Materials & Interfaces, 2016, 8, 30687-30691.	4.0	139
32	Wear characteristics of Tiâ€“Nbâ€“Taâ€“Zr and Tiâ€“6Alâ€“4V alloys for biomedical applications. Wear, 2004, 257, 869-876.	1.5	138
33	The kinetics and mechanism of interfacial reaction in sigma fibre-reinforced Ti MMCs. Composites Part A: Applied Science and Manufacturing, 1997, 28, 131-140.	3.8	135
34	Exceptional supercapacitor performance from optimized oxidation of graphene-oxide. Energy Storage Materials, 2019, 17, 12-21.	9.5	135
35	Flexible and Selfâ€Powered Photodetector Arrays Based on Allâ€Inorganic CsPbBr₃ Quantum Dots. Advanced Materials, 2020, 32, e2000004.	11.1	134
36	Tunable Covalent Triazine-Based Frameworks (CTF-0) for Visible-Light-Driven Hydrogen and Oxygen Generation from Water Splitting. ACS Catalysis, 2019, 9, 7697-7707.	5.5	131

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37	Hydrogen sorption in defective hexagonal BN sheets and BN nanotubes. Physical Review B, 2007, 76, .	1.1	128
38	Postsynthesis Annealing of MOF-5 Remarkably Enhances the Framework Structural Stability and CO₂ Uptake. Chemistry of Materials, 2014, 26, 6333-6338.	3.2	126
39	Advances in computational studies of energy materials. Philosophical Transactions Series A, Mathematical, Physical, and Engineering Sciences, 2010, 368, 3379-3456.	1.6	119
40	An efficient carbon-based ORR catalyst from low-temperature etching of ZIF-67 with ultra-small cobalt nanoparticles and high yield. Journal of Materials Chemistry A, 2019, 7, 3544-3551.	5.2	112
41	High Detectivity and Transparent Fewâ€Layer MoS₂/Glassyâ€Graphene Heterostructure Photodetectors. Advanced Materials, 2018, 30, e1706561.	11.1	111
42	Ferroceneâ€Based Metalâ€“Organic Framework Nanosheets as a Robust Oxygen Evolution Catalyst. Angewandte Chemie - International Edition, 2021, 60, 12770-12774.	7.2	111
43	Oxidation investigation of nickel nanoparticles. Physical Chemistry Chemical Physics, 2008, 10, 5057.	1.3	110
44	Effect of Nitrogen Doping on the CO₂ Adsorption Behavior in Nanoporous Carbon Structures: A Molecular Simulation Study. Journal of Physical Chemistry C, 2015, 119, 22310-22321.	1.5	108
45	Density functional theory simulations of complex hydride and carbon-based hydrogen storage materials. Chemical Society Reviews, 2009, 38, 211-225.	18.7	107
46	First-principles study of stacking fault energies in Mg-based binary alloys. Computational Materials Science, 2013, 79, 564-569.	1.4	107
47	Ultrasmall CuCo₂S₄ Nanocrystals: Allâ€inâ€One Theragnosis Nanoplatform with Magnetic Resonance/Nearâ€Infrared Imaging for Efficiently Photothermal Therapy of Tumors. Advanced Functional Materials, 2017, 27, 1606218.	7.8	106
48	Microstructural modelling of dynamic recrystallisation using an extended cellular automaton approach. Computational Materials Science, 2002, 23, 209-218.	1.4	104
49	Effect of composition on the microstructure and mechanical properties of Mgâ€“Znâ€“Al alloys. Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing, 2007, 456, 43-51.	2.6	104
50	First principles study of site substitution of ternary elements in NiAl. Acta Materialia, 2001, 49, 1647-1654.	3.8	103
51	Graphene/nitrogen-doped porous carbon sandwiches for the metal-free oxygen reduction reaction: conductivity versus active sites. Journal of Materials Chemistry A, 2016, 4, 12658-12666.	5.2	99
52	Cellular automata simulation of microstructural evolution during dynamic recrystallization of an HY-100 steel. Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing, 2004, 365, 180-185.	2.6	95
53	Soy protein directed hydrothermal synthesis of porous carbon aerogels for electrocatalytic oxygen reduction. Carbon, 2016, 96, 622-630.	5.4	84
54	Solid-state fabrication and interfaces of fibre reinforced metal matrix composites. Progress in Materials Science, 1995, 39, 411-495.	16.0	83

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55	An Ultrahigh Pore Volume Drives Up the Amine Stability and Cyclic CO₂ Capacity of a Solidâ€Amine@Carbon Sorbent. Advanced Materials, 2015, 27, 4903-4909.	11.1	81
56	The effect of ultrasound on the homogeneous nucleation of <mml:math altimg="si23.gif" display="inline" overflow="scroll" xmlns:xocs="http://www.elsevier.com/xml/xocs/dtd" xmlns:xs="http://www.w3.org/2001/XMLSchema" xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance" xmlns="http://www.elsevier.com/xml/ja/dtd" xmlns:ja="http://www.elsevier.com/xml/ja/dtd" xmlns:mml="http://www.w3.org/1998/Math/MathML" xmlns:tb="http://www.elsevier.com/xml/common/table/dtd" xmlns:sb="http://www.elsevier.com/xml/co	1.9	79
57	Preparation of high porosity metal foams. Metallurgical and Materials Transactions B: Process Metallurgy and Materials Processing Science, 2000, 31, 1345-1352.	1.0	78
58	Naturally Nitrogen and Calcium-Doped Nanoporous Carbon from Pine Cone with Superior CO₂ Capture Capacities. ACS Sustainable Chemistry and Engineering, 2016, 4, 1050-1057.	3.2	78
59	Amylose-Derived Macrohollow Core and Microporous Shell Carbon Spheres as Sulfur Host for Superior Lithiumâ€“Sulfur Battery Cathodes. ACS Applied Materials & Interfaces, 2017, 9, 10717-10729.	4.0	77
60	A first principles study of the influence of alloying elements on TiAl: site preference. Intermetallics, 2000, 8, 563-568.	1.8	75
61	Transition-metal-doping-enhanced hydrogen storage in boron nitride systems. Applied Physics Letters, 2006, 89, 153104.	1.5	75
62	Porosity Engineering of MOFâ€Based Materials for Electrochemical Energy Storage. Advanced Energy Materials, 2021, 11, 2100154.	10.2	75
63	Highly Efficient Oxygen Reduction Catalysts by Rational Synthesis of Nanoconfined Maghemite in a Nitrogen-Doped Graphene Framework. ACS Catalysis, 2016, 6, 3558-3568.	5.5	74
64	Highly efficient rutile TiO₂ photocatalysts with single Cu(<scp>ii</scp>) and Fe(<scp>iii</scp>) surface catalytic sites. Journal of Materials Chemistry A, 2016, 4, 3127-3138.	5.2	73
65	Modelling of diffusion bonding of metals. Materials Science and Technology, 1987, 3, 945-953.	0.8	72
66	High-Capacity Room-Temperature Hydrogen Storage in Carbon Nanotubes via Defect-Modulated Titanium Doping. Journal of Physical Chemistry C, 2008, 112, 17456-17464.	1.5	71
67	Electronic structure, stability and bonding of the Li-N-H hydrogen storage system. Physical Review B, 2006, 74, .	1.1	68
68	Nanoconfined ammonia borane in a flexible metalâ€“organic framework Feâ€“MIL-53: clean hydrogen release with fast kinetics. Journal of Materials Chemistry A, 2013, 1, 4167.	5.2	66
69	Nitrogen-enriched and hierarchically porous carbon macro-spheres â€“ ideal for large-scale CO₂ capture. Journal of Materials Chemistry A, 2014, 2, 5481-5489.	5.2	66
70	Microstructural characterisation of electroless-nickel coatings on zirconia powder. Scripta Materialia, 2000, 43, 307-311.	2.6	65
71	Naturally derived porous carbon with selective metal- and/or nitrogen-doping for efficient CO₂ capture and oxygen reduction. Journal of Materials Chemistry A, 2015, 3, 5212-5222.	5.2	65
72	Enhanced performance of ZnO nanoparticle decorated all-inorganic CsPbBr₃ quantum dot photodetectors. Journal of Materials Chemistry A, 2019, 7, 6134-6142.	5.2	64

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73	Comparative study of mechanical alloying of (Mg+Al) and (Mg+Al+Ni) mixtures for hydrogen storage. Journal of Alloys and Compounds, 2002, 336, 222-231.	2.8	63
74	Effects of Carbon-Supported Nickel Catalysts on MgH2Decomposition. Journal of Physical Chemistry C, 2008, 112, 5984-5992.	1.5	62
75	MgH₂ Dehydrogenation Thermodynamics: Nanostructuring and Transition Metal Doping. Journal of Physical Chemistry C, 2013, 117, 10883-10891.	1.5	62
76	Hierarchically porous graphene sheets and graphitic carbon nitride intercalated composites for enhanced oxygen reduction reaction. Journal of Materials Chemistry A, 2014, 2, 3209-3215.	5.2	61
77	Superior CO₂ adsorption from waste coffee ground derived carbons. RSC Advances, 2015, 5, 29558-29562.	1.7	61
78	Desorption characteristics of mechanically and chemically modified LiNH2 and (LiNH2+LiH). Journal of Alloys and Compounds, 2007, 432, 277-282.	2.8	60
79	Negative thermal expansion correlated with polyhedral movements and distortions in orthorhombic Y2Mo3O12. Materials Research Bulletin, 2013, 48, 2724-2729.	2.7	60
80	In situsynthesized low-PtCo@porous carbon catalyst for highly efficient hydrogen evolution. Journal of Materials Chemistry A, 2019, 7, 6543-6551.	5.2	59
81	Functionalized Carbon Dots on Graphene as Outstanding Nonâ€Metal Bifunctional Oxygen Electrocatalyst. Small, 2019, 15, e1900296.	5.2	58
82	Multiscale simulation of onset plasticity during nanoindentation of Al (001) surface. Acta Materialia, 2008, 56, 4358-4368.	3.8	57
83	Structural stability of mechanically alloyed (Mg+10Nb) and (MgH2+10Nb) powder mixtures. Journal of Alloys and Compounds, 2003, 349, 217-223.	2.8	56
84	Nucleation and growth in solution synthesis of nanostructures â€“ From fundamentals to advanced applications. Progress in Materials Science, 2022, 123, 100821.	16.0	55
85	Reaction Paths between LiNH2 and LiH with Effects of Nitrides. Journal of Physical Chemistry B, 2007, 111, 12531-12536.	1.2	54
86	Applications of reactive molecular dynamics to the study of the thermal decomposition of polymers and nanoscale structures. Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing, 2004, 365, 114-121.	2.6	53
87	First-principles study of the stability of calcium-decorated carbon nanostructures. Physical Review B, 2010, 82, .	1.1	53
88	Microstructure and mechanical properties of a spark plasma sinteredTiâ€“45Alâ€“8.5Nbâ€“0.2Wâ€“0.2Bâ€“0.1Y alloy. Intermetallics, 2009, 17, 840-846.	1.8	52
89	Self-standing electrodes with core-shell structures for high-performance supercapacitors. Energy Storage Materials, 2017, 9, 119-125.	9.5	52
90	Calcium-Based Functionalization of Carbon Materials for CO₂Capture: A First-Principles Computational Study. Journal of Physical Chemistry C, 2011, 115, 10990-10995.	1.5	51

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91	Processing of strong and highly conductive carbon foams as electrode. Carbon, 2011, 49, 3857-3864.	5.4	51
92	A hybrid Si@FeSi_y/SiO_x anode structure for high performance lithium-ion batteries via ammonia-assisted one-pot synthesis. Journal of Materials Chemistry A, 2015, 3, 10767-10776.	5.2	50
93	Tunable Bifunctional Activity of Mn_xCo_{3â^'x}O₄ Nanocrystals Decorated on Carbon Nanotubes for Oxygen Electrocatalysis. ChemSusChem, 2018, 11, 1295-1304.	3.6	50
94	Porous anodes with helical flow pathways in bioelectrochemical systems: The effects of fluid dynamics and operating regimes. Journal of Power Sources, 2012, 213, 382-390.	4.0	49
95	An oxidized magnetic Au single atom on doped TiO₂(110) becomes a high performance CO oxidation catalyst due to the charge effect. Journal of Materials Chemistry A, 2017, 5, 19316-19322.	5.2	49
96	Influence of titanium on the hydrogen storage characteristics of magnesium hydride: a first principles investigation. Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing, 2004, 365, 73-79.	2.6	48
97	Materials challenges for hydrogen storage. Journal of the European Ceramic Society, 2008, 28, 1467-1473.	2.8	48
98	Hydrogen Absorption/Desorption Mechanism in Potassium Alanate (KAlH₄) and Enhancement by TiCl₃ Doping. Journal of Physical Chemistry C, 2009, 113, 6845-6851.	1.5	48
99	Multi-hydride systems with enhanced hydrogen storage properties derived from Mg(BH4)2 and LiAlH4. International Journal of Hydrogen Energy, 2012, 37, 10733-10742.	3.8	48
100	Design of hyperporous graphene networks and their application in solid-amine based carbon capture systems. Journal of Materials Chemistry A, 2017, 5, 17833-17840.	5.2	48
101	Metal organic chemical vapour deposition (MOCVD) of bone mineral like carbonated hydroxyapatite coatingsElectronic supplementary information (ESI) available: experimental data. See http://www.rsc.org/suppdata/cc/b3/b312855p/. Chemical Communications, 2004, , 696.	2.2	47
102	Synthesis of a porous oxide layer on a multifunctional biomedical titanium by micro-arc oxidation. Materials Science and Engineering C, 2009, 29, 1923-1934.	3.8	47
103	High-speed observation of the effects of ultrasound on liquid mixing and agglomerated crystal breakage processes. Powder Technology, 2007, 171, 146-153.	2.1	46
104	Site density effect of Ni particles on hydrogen desorption of MgH2. International Journal of Hydrogen Energy, 2010, 35, 4534-4542.	3.8	46
105	Static recrystallization and grain growth during annealing of an extruded Mgâ€“Znâ€“Zrâ€“Er magnesium alloy. Journal of Magnesium and Alloys, 2013, 1, 31-38.	5.5	46
106	Understanding the Hydrophilicity and Water Adsorption Behavior of Nanoporous Nitrogen-Doped Carbons. Journal of Physical Chemistry C, 2016, 120, 18167-18179.	1.5	46
107	Structural and desorption characterisations of milled (MgH2+Y,Ce)(MgH2+Y,Ce) powder mixtures for hydrogen storage. International Journal of Hydrogen Energy, 2007, 32, 2920-2925.	3.8	45
108	A mechanochemical synthesis of submicron-sized Li₂S and a mesoporous Li₂S/C hybrid for high performance lithium/sulfur battery cathodes. Journal of Materials Chemistry A, 2017, 5, 6471-6482.	5.2	44

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109	Structure, optical properties and defects in nitride (IIIâ€“V) nanoscale cage clusters. Physical Chemistry Chemical Physics, 2008, 10, 1944.	1.3	42
110	Design of 3D Grapheneâ€Oxide Spheres and Their Derived Hierarchical Porous Structures for High Performance Supercapacitors. Small, 2017, 13, 1702474.	5.2	42
111	Multiple-Timescale Photoreactivity of a Model Compound Related to the Active Site of [FeFe]-Hydrogenase. Inorganic Chemistry, 2008, 47, 7453-7455.	1.9	41
112	Dehydrogenation mechanisms and thermodynamics of MNH2BH3 (M = Li, Na) metal amidoboranes as predicted from first principles. Physical Chemistry Chemical Physics, 2011, 13, 7649.	1.3	41
113	Calculation of theoretical strengths and bulk moduli of bcc metals. Physical Review B, 1999, 59, 14220-14225.	1.1	40
114	Mesoporous Fe₂O₃ flakes of high aspect ratio encased within thin carbon skeleton for superior lithium-ion battery anodes. Journal of Materials Chemistry A, 2015, 3, 14178-14187.	5.2	40
115	Compressive Straining of Bilayer Phosphorene Leads to Extraordinary Electron Mobility at a New Conduction Band Edge. Nano Letters, 2015, 15, 2006-2010.	4.5	40
116	A diffusion-controlled kinetic model for binder burnout in a powder compact. Acta Materialia, 2002, 50, 1937-1950.	3.8	39
117	Anionic Dopants for Improved Optical Absorption and Enhanced Photocatalytic Hydrogen Production in Graphitic Carbon Nitride. Chemistry of Materials, 2016, 28, 7250-7256.	3.2	39
118	Co3+-O-V4+ cluster in CoVOx nanorods for efficient and stable electrochemical oxygen evolution. Applied Catalysis B: Environmental, 2021, 282, 119571.	10.8	39
119	TiO2 decorated porous carbonaceous network structures offer confinement, catalysis and thermal conductivity for effective hydrogen storage of LiBH4. Chemical Engineering Journal, 2021, 407, 127156.	6.6	39
120	Artificial neural network modelling of hydrogen storage properties of Mg-based alloys. Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing, 2004, 365, 219-227.	2.6	38
121	Partition of Er among the constituent phases and the yield phenomenon in a semi-continuously cast Mgâ€“Znâ€“Zr alloy. Scripta Materialia, 2010, 63, 367-370.	2.6	38
122	Cobalt nickel nitride coated by a thin carbon layer anchoring on nitrogen-doped carbon nanotube anodes for high-performance lithium-ion batteries. Journal of Materials Chemistry A, 2018, 6, 19853-19862.	5.2	38
123	Processing of in situ toughened b-w-c composites by reaction hot pressing of b4c and wc. Scripta Materialia, 2000, 43, 853-857.	2.6	35
124	Ca(BH4)2â€“LiBH4â€“MgH2: a novel ternary hydrogen storage system with superior long-term cycling performance. Journal of Materials Chemistry A, 2013, 1, 12285.	5.2	35
125	Improved hydrogen storage performance of Ca(BH4)2: a synergetic effect of porous morphology and in situ formed TiO2. Energy and Environmental Science, 2013, 6, 847.	15.6	35
126	Size- and charge-dependent geometric and electronic structures of Binâ€ˆ(Binâ€˜) clusters (n=2â€“13) by first-principles simulations. Journal of Chemical Physics, 2008, 128, 194304.	1.2	34

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127	CO₂ Activation and Total Reduction on Titanium(0001) Surface. Journal of Physical Chemistry C, 2010, 114, 11456-11459.	1.5	34
128	Topological phase transitions driven by strain in monolayer tellurium. Physical Review B, 2018, 98, .	1.1	34
129	Hydrogen-induced magnetization and tunable hydrogen storage in graphitic structures. Physical Review B, 2008, 77, .	1.1	33
130	High-temperature oxidation behavior of TiAl-based alloys fabricated by spark plasma sintering. Journal of Alloys and Compounds, 2009, 478, 220-225.	2.8	33
131	Strain Engineering of a Defect-Free, Single-Layer MoS₂ Substrate for Highly Efficient Single-Atom Catalysis of CO Oxidation. ACS Applied Materials & Interfaces, 2019, 11, 32887-32894.	4.0	33
132	Microstructure and properties of nippon fire-resistant steels. Journal of Materials Engineering and Performance, 1999, 8, 606-612.	1.2	32
133	First principles studies of TiAl-based alloys. Journal of Light Metals, 2002, 2, 115-123.	0.8	32
134	Solid solution nitride/carbon nanotube hybrids enhance electrocatalysis of oxygen in zinc-air batteries. Energy Storage Materials, 2018, 15, 380-387.	9.5	32
135	Modelling of superplastic bulge forming of domes. Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing, 1989, 114, 97-104.	2.6	31
136	Graphitic nanostructures in a porous carbon framework significantly enhance electrocatalytic oxygen evolution. Journal of Materials Chemistry A, 2017, 5, 24686-24694.	5.2	30
137	PbGa₂GeS₆: An Infrared Nonlinear Optical Material Synthesized by an Intermediate-Temperature Self-Fluxing Method. Crystal Growth and Design, 2018, 18, 1162-1167.	1.4	30
138	Fabrication of porous titanium scaffold materials by a fugitive filler method. Journal of Materials Science: Materials in Medicine, 2008, 19, 3489-3495.	1.7	29
139	Effects of in-plane stiffness and charge transfer on thermal expansion of monolayer transition metal dichalcogenide*. Chinese Physics B, 2015, 24, 026501.	0.7	29
140	Comparison of interfaces in Ti composites reinforced with uncoated and TiB₂/Câ€coated SiC fibres. Journal of Microscopy, 1993, 169, 279-287.	0.8	28
141	First-principles study of tetragonal PbTiO3: Phonon and thermal expansion. Materials Research Bulletin, 2014, 49, 509-513.	2.7	28
142	Interpretation of the ultrasonic effect on induction time during BaSO4 homogeneous nucleation by a cluster coagulation model. Journal of Colloid and Interface Science, 2006, 297, 190-198.	5.0	27
143	Preferential Pt Nanocluster Seeding at Grain Boundary Dislocations in Polycrystalline Monolayer MoS₂. ACS Nano, 2018, 12, 5626-5636.	7.3	27
144	Solidification microstructural constituent and its crystallographic morphology of permanent-mould-cast Mg-Zn-Al alloys. Transactions of Nonferrous Metals Society of China, 2006, 16, 452-458.	1.7	26

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145	Substrate co-doping modulates electronic metalâ€“support interactions and significantly enhances single-atom catalysis. Nanoscale, 2016, 8, 19256-19262.	2.8	26
146	Structure and Defect Chemistry of Low- and High-Temperature Phases of LiBH₄. Journal of Physical Chemistry C, 2012, 116, 13488-13496.	1.5	25
147	First-principles calculations on the role of Ni-doping in Cu clusters: From geometric and electronic structures to chemical activities towards CO2. Physics Letters, Section A: General, Atomic and Solid State Physics, 2010, 374, 4324-4330.	0.9	24
148	Multinuclear Zinc Pentafluorobenzene Carboxylates: Synthesis, Characterization, and Hydrogen Storage Capability. Organometallics, 2010, 29, 6129-6132.	1.1	24
149	Effect of nitride additives on Liâ€“Nâ€“H hydrogen storage system. International Journal of Hydrogen Energy, 2011, 36, 7920-7926.	3.8	24
150	Salt Templating with Pore Padding: Hierarchical Pore Tailoring towards Functionalised Porous Carbons. ChemSusChem, 2017, 10, 199-209.	3.6	24
151	Indirect to Direct Charge Transfer Transition in Plasmonâ€Enabled CO₂ Photoreduction. Advanced Science, 2022, 9, e2102978.	5.6	24
152	First-principles investigation of negative thermal expansion in II-VI semiconductors. Materials Chemistry and Physics, 2014, 148, 214-222.	2.0	23
153	Crystallinity-Modulated Co_{2â€“x}V_xO₄ Nanoplates for Efficient Electrochemical Water Oxidation. ACS Catalysis, 2021, 11, 14884-14891.	5.5	23
154	A First-Principles Study of the Electronic Structure and Stability of a Lithium Aluminum Hydride for Hydrogen Storage. Journal of Physical Chemistry B, 2006, 110, 6906-6910.	1.2	22
155	A Targeted Functional Design for Highly Efficient and Stable Cathodes for Rechargeable Liâ€Ion Batteries. Advanced Functional Materials, 2017, 27, 1604903.	7.8	22
156	Spatially Bandgap-Graded MoS2(1â^'x)Se2x Homojunctions for Self-Powered Visibleâ€“Near-Infrared Phototransistors. Nano-Micro Letters, 2020, 12, 26.	14.4	22
157	First-principles local density approximation (generalized gradient approximation) +U study of catalytic CenOm clusters: U value differs from bulk. Journal of Chemical Physics, 2008, 128, 164718.	1.2	21
158	In Situ Introduction of Li₃BO₃ and NbH Leads to Superior Cyclic Stability and Kinetics of a LiBH₄-Based Hydrogen Storage System. ACS Applied Materials & Interfaces, 2020, 12, 893-903.	4.0	21
159	Direct mechanical synthesis and characterisation of Mg2Fe(Cu)H6. Journal of Alloys and Compounds, 2003, 356-357, 626-629.	2.8	20
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