

# Guosheng Shao

## List of Publications by Year in descending order

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352  
papers

12,789  
citations

20797

60  
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43868

91  
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361  
all docs

361  
docs citations

361  
times ranked

12472  
citing authors

#	ARTICLE	IF	CITATIONS
1	An efficient room-temperature silicon-based light-emitting diode. <i>Nature</i> , 2001, 410, 192-194.	13.7	612
2	Two-dimensional Ruddlesden-Popper layered perovskite solar cells based on phase-pure thin films. <i>Nature Energy</i> , 2021, 6, 38-45.	19.8	342
3	Porous Carbons: Structure-Oriented Design and Versatile Applications. <i>Advanced Functional Materials</i> , 2020, 30, 1909265.	7.8	316
4	Phase Pure 2D Perovskite for High-Performance 2D-3D Heterostructured Perovskite Solar Cells. <i>Advanced Materials</i> , 2018, 30, e1805323.	11.1	244
5	Buried Interfaces in Halide Perovskite Photovoltaics. <i>Advanced Materials</i> , 2021, 33, e2006435.	11.1	214
6	Mn-doped TiO <sub>2</sub> nanopowders with remarkable visible light photocatalytic activity. <i>Materials Letters</i> , 2011, 65, 2051-2054.	1.3	195
7	Inkjet manipulated homogeneous large size perovskite grains for efficient and large-area perovskite solar cells. <i>Nano Energy</i> , 2018, 46, 203-211.	8.2	155
8	Red Shift in Manganese- and Iron-Doped TiO <sub>2</sub> : A DFT+U Analysis. <i>Journal of Physical Chemistry C</i> , 2009, 113, 6800-6808.	1.5	154
9	Oxidation of Nb-Si-Cr-Al in situ composites with Mo, Ti and Hf additions. <i>Materials Science &amp; Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2006, 441, 26-38.	2.6	146
10	A flexible metallic TiC nanofiber/vertical graphene 1D/2D heterostructured as active electrocatalyst for advanced Li-S batteries. <i>Information Materials</i> , 2021, 3, 790-803.	8.5	142
11	On the oxidation behaviour of MoSi <sub>2</sub> . <i>Intermetallics</i> , 2001, 9, 125-136.	1.8	137
12	Electronic Structures of Manganese-Doped Rutile TiO <sub>2</sub> from First Principles. <i>Journal of Physical Chemistry C</i> , 2008, 112, 18677-18685.	1.5	135
13	Photogenerated Electron Transfer Process in Heterojunctions: In Situ Irradiation XPS. <i>Small Methods</i> , 2020, 4, 2000214.	4.6	129
14	Vertically aligned graphene nanosheets on multi-yolk/shell structured TiC@C nanofibers for stable Li-S batteries. <i>Energy Storage Materials</i> , 2020, 27, 159-168.	9.5	124
15	The formation of onion-like carbon-encapsulated cobalt carbide core/shell nanoparticles by the laser ablation of metallic cobalt in acetone. <i>Carbon</i> , 2013, 55, 108-115.	5.4	119
16	Recent Advances in Effective Reduction of Graphene Oxide for Highly Improved Performance Toward Electrochemical Energy Storage. <i>Energy and Environmental Materials</i> , 2018, 1, 5-12.	7.3	119
17	Pinecone biomass-derived hard carbon anodes for high-performance sodium-ion batteries. <i>RSC Advances</i> , 2017, 7, 41504-41511.	1.7	117
18	Construction of solid-state Z-scheme carbon-modified TiO <sub>2</sub> /WO <sub>3</sub> nanofibers with enhanced photocatalytic hydrogen production. <i>Journal of Power Sources</i> , 2016, 328, 28-36.	4.0	114

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19	A study of the effects of Hf and Sn additions on the microstructure of Nbss/Nb5Si3 based in situ composites. <i>Intermetallics</i> , 2007, 15, 69-76.	1.8	110
20	Template-oriented synthesis of monodispersed SnS2@SnO2 hetero-nanoflowers for Cr(VI) photoreduction. <i>Applied Catalysis B: Environmental</i> , 2016, 192, 17-25.	10.8	108
21	Prediction of amorphous phase stability in the metal-silicon systems. <i>Journal of Applied Physics</i> , 2001, 90, 724-727.	1.1	107
22	Plasmon enhancement on photocatalytic hydrogen production over the Z-scheme photosynthetic heterojunction system. <i>Applied Catalysis B: Environmental</i> , 2017, 210, 297-305.	10.8	107
23	Prediction of phase selection in rapid solidification using time dependent nucleation theory. <i>Acta Metallurgica Et Materialia</i> , 1994, 42, 2937-2942.	1.9	104
24	Highly oriented Ge-doped hematite nanosheet arrays for photoelectrochemical water oxidation. <i>Nano Energy</i> , 2014, 9, 282-290.	8.2	104
25	Direct evidence of 2D/1D heterojunction enhancement on photocatalytic activity through assembling MoS2 nanosheets onto super-long TiO2 nanofibers. <i>Applied Surface Science</i> , 2020, 504, 144361.	3.1	100
26	One-dimensional Z-scheme TiO2/WO3/Pt heterostructures for enhanced hydrogen generation. <i>Applied Surface Science</i> , 2017, 391, 211-217.	3.1	99
27	Lithium-Sulfur Batteries Meet Electrospinning: Recent Advances and the Key Parameters for High Gravimetric and Volume Energy Density. <i>Advanced Science</i> , 2022, 9, e2103879.	5.6	98
28	Thermodynamic reassessment of the Mo-Si and Al-Mo-Si systems. <i>Intermetallics</i> , 2000, 8, 953-962.	1.8	96
29	Room temperature fabrication of p-channel Cu <sub>2</sub> O thin-film transistors on flexible polyethylene terephthalate substrates. <i>Applied Physics Letters</i> , 2012, 101, 042114.	1.5	96
30	Electronic Properties of Rutile TiO <sub>2</sub> with Nonmetal Dopants from First Principles. <i>Journal of Physical Chemistry C</i> , 2011, 115, 8274-8282.	1.5	92
31	Constructing 2D layered MoS <sub>2</sub> nanosheets-modified Z-scheme TiO <sub>2</sub> /WO <sub>3</sub> nanofibers ternary nanojunction with enhanced photocatalytic activity. <i>Applied Surface Science</i> , 2018, 430, 466-474.	3.1	92
32	The effects of Ti and Mo additions on the microstructure of Nb-silicide based in situ composites. <i>Intermetallics</i> , 2006, 14, 227-235.	1.8	91
33	One-Step Inkjet Printed Perovskite in Air for Efficient Light Harvesting. <i>Solar Rrl</i> , 2018, 2, 1700217.	3.1	90
34	Thermodynamic modelling of the Y-Zn and Mg-Zn-Y systems. <i>Calphad: Computer Coupling of Phase Diagrams and Thermochemistry</i> , 2006, 30, 286-295.	0.7	89
35	Microwave-assisted growth of In <sub>2</sub> O <sub>3</sub> nanoparticles on WO <sub>3</sub> nanoplates to improve H <sub>2</sub> S-sensing performance. <i>Journal of Materials Chemistry A</i> , 2014, 2, 18867-18874.	5.2	88
36	Normal-pressure microwave rapid synthesis of hierarchical SnO <sub>2</sub> @rGO nanostructures with superhigh surface areas as high-quality gas-sensing and electrochemical active materials. <i>Nanoscale</i> , 2014, 6, 13690-13700.	2.8	88

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37	Low-temperature and highly selective NO-sensing performance of WO <sub>3</sub> nanoplates decorated with silver nanoparticles. <i>Sensors and Actuators B: Chemical</i> , 2013, 185, 445-455.	4.0	86
38	Role of materials chemistry on the electrical/electronic properties of CuO thin films. <i>Acta Materialia</i> , 2015, 85, 122-131.	3.8	86
39	Ruddlesden-Popper Perovskite for Stable Solar Cells. <i>Energy and Environmental Materials</i> , 2018, 1, 221-231.	7.3	85
40	Enhanced performances of dye-sensitized solar cells based on Au-TiO <sub>2</sub> and Ag-TiO <sub>2</sub> plasmonic hybrid nanocomposites. <i>Applied Surface Science</i> , 2018, 430, 415-423.	3.1	84
41	Review Research Progress on Layered Transition Metal Oxide Cathode Materials for Sodium Ion Batteries. <i>Journal of the Electrochemical Society</i> , 2021, 168, 050524.	1.3	82
42	Dye-sensitized solar cells based on TiO <sub>2</sub> nanoparticles/nanobelts double-layered film with improved photovoltaic performance. <i>Applied Surface Science</i> , 2014, 319, 75-82.	3.1	78
43	Effect of Chromium and Niobium Doping on the Morphology and Electrochemical Performance of High-Voltage Spinel LiNi <sub>0.5</sub> Mn <sub>1.5</sub> O <sub>4</sub> Cathode Material. <i>ACS Applied Materials &amp; Interfaces</i> , 2016, 8, 9116-9124.	4.0	78
44	Dual Evolution in Defect and Morphology of Single-Atom Dispersed Carbon Based Oxygen Electrocatalyst. <i>Advanced Functional Materials</i> , 2021, 31, 2010472.	7.8	78
45	From anti-perovskite to double anti-perovskite: tuning lattice chemistry to achieve super-fast Li <sup>+</sup> transport in cubic solid lithium halogen chalcogenides. <i>Journal of Materials Chemistry A</i> , 2018, 6, 73-83.	5.2	77
46	Chemical bath deposited rutile TiO <sub>2</sub> compact layer toward efficient planar heterojunction perovskite solar cells. <i>Applied Surface Science</i> , 2017, 391, 337-344.	3.1	76
47	Work Function and Electron Affinity of Semiconductors: Doping Effect and Complication due to Fermi Level Pinning. <i>Energy and Environmental Materials</i> , 2021, 4, 273-276.	7.3	75
48	Enhancing efficiency of planar structure perovskite solar cells using Sn-doped TiO <sub>2</sub> as electron transport layer at low temperature. <i>Electrochimica Acta</i> , 2018, 261, 227-235.	2.6	74
49	Effective promotion of spacial charge separation in direct Z-scheme WO <sub>3</sub> /CdS/WS <sub>2</sub> tandem heterojunction with enhanced visible-light-driven photocatalytic H <sub>2</sub> evolution. <i>Chemical Engineering Journal</i> , 2020, 398, 125602.	6.6	73
50	In situ sulfur-doped graphene nanofiber network as efficient metal-free electrocatalyst for polysulfides redox reactions in lithium-sulfur batteries. <i>Journal of Energy Chemistry</i> , 2020, 47, 281-290.	7.1	72
51	Theoretical design of solid electrolytes with superb ionic conductivity: alloying effect on Li <sup>+</sup> transportation in cubic Li <sub>6</sub> PA <sub>5</sub> X chalcogenides. <i>Journal of Materials Chemistry A</i> , 2017, 5, 21846-21857.	5.2	70
52	Ti <sub>3</sub> C <sub>2</sub> MXene as an energy band bridge to regulate the heterointerface mass transfer and electron reversible exchange process for Li-S batteries. <i>Journal of Materials Chemistry A</i> , 2020, 8, 25255-25267.	5.2	70
53	Rational Designs for Lithium-Sulfur Batteries with Low Electrolyte/Sulfur Ratio. <i>Advanced Functional Materials</i> , 2021, 31, 2010499.	7.8	70
54	Synthesis and Ag-loading-density-dependent photocatalytic activity of Ag@TiO <sub>2</sub> hybrid nanocrystals. <i>Applied Surface Science</i> , 2013, 284, 921-929.	3.1	69

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55	First Principle Material Genome Approach for All Solid-State Batteries. <i>Energy and Environmental Materials</i> , 2019, 2, 234-250.	7.3	69
56	Electronic properties of rutile TiO <sub>2</sub> doped with 4d transition metals: First-principles study. <i>Journal of Alloys and Compounds</i> , 2013, 551, 118-124.	2.8	68
57	Mild solution-processed metal-doped TiO <sub>2</sub> compact layers for hysteresis-less and performance-enhanced perovskite solar cells. <i>Journal of Power Sources</i> , 2017, 372, 235-244.	4.0	66
58	Thermodynamic assessment of the Nb-Si-Al system. <i>Intermetallics</i> , 2004, 12, 655-664.	1.8	65
59	Hierarchical Fe <sub>2</sub> O <sub>3</sub> @WO <sub>3</sub> nanostructures with ultrahigh specific surface areas: microwave-assisted synthesis and enhanced H <sub>2</sub> S-sensing performance. <i>RSC Advances</i> , 2015, 5, 328-337.	1.7	65
60	In Situ Fabrication of Nano Porous NiO-Capped Ni <sub>3</sub> P film as Anode for Li-Ion Battery with Different Lithiation Path and Significantly Enhanced Electrochemical Performance. <i>Electrochimica Acta</i> , 2016, 220, 258-266.	2.6	64
61	A novel reduction approach to fabricate quantum-sized SnO <sub>2</sub> -conjugated reduced graphene oxide nanocomposites as non-enzymatic glucose sensors. <i>Physical Chemistry Chemical Physics</i> , 2014, 16, 8801.	1.3	61
62	Effects of intensive forced melt convection on the mechanical properties of Fe containing Al-Si based alloys. <i>Materials Science &amp; Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2007, 445-446, 65-72.	2.6	60
63	Tracking charge transfer pathways in SrTiO <sub>3</sub> /CoP/Mo <sub>2</sub> C nanofibers for enhanced photocatalytic solar fuel production. <i>Chinese Journal of Catalysis</i> , 2022, 43, 507-518.	6.9	59
64	Molecular Beam Epitaxy Scalable Growth of Wafer-Scale Continuous Semiconducting Monolayer MoTe <sub>2</sub> on Inert Amorphous Dielectrics. <i>Advanced Materials</i> , 2019, 31, e1901578.	11.1	58
65	Prediction of amorphous phase stability in metallic alloys. <i>Journal of Applied Physics</i> , 2000, 88, 4443.	1.1	57
66	Origin of significant visible-light absorption properties of Mn-doped TiO <sub>2</sub> thin films. <i>Acta Materialia</i> , 2012, 60, 1974-1985.	3.8	56
67	On the oxidation behavior of (Zr,Nb) <sub>2</sub> Fe under simulated nuclear reactor conditions. <i>Corrosion Science</i> , 2016, 112, 718-723.	3.0	55
68	Controllable construction of hierarchically CdIn <sub>2</sub> S <sub>4</sub> /CNFs/Co <sub>4</sub> S <sub>3</sub> nanofiber networks towards photocatalytic hydrogen evolution. <i>Chemical Engineering Journal</i> , 2021, 419, 129213.	6.6	53
69	Polyethyleneimine High-Energy Hydrophilic Surface Interfacial Treatment toward Efficient and Stable Perovskite Solar Cells. <i>ACS Applied Materials &amp; Interfaces</i> , 2016, 8, 32574-32580.	4.0	52
70	A Three-Region-Configuration for Enhanced Electrochemical Kinetics and High-Areal Capacity Lithium-Sulfur Batteries. <i>Advanced Functional Materials</i> , 2022, 32, .	7.8	52
71	Thermodynamic modelling of the Cr-Nb-Si system. <i>Intermetallics</i> , 2005, 13, 69-78.	1.8	51
72	A thermo-gravimetric and microstructural study of the oxidation of Nb <sub>5</sub> Si <sub>3</sub> -based in situ composites with Sn addition. <i>Intermetallics</i> , 2007, 15, 270-281.	1.8	51

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73	Amorphous-iron disilicide: A promising semiconductor. <i>Applied Physics Letters</i> , 2001, 79, 1438-1440.	1.5	50
74	Numerical study of metal oxide heterojunction solar cells. <i>Semiconductor Science and Technology</i> , 2011, 26, 085026.	1.0	49
75	Ge-doped hematite nanosheets with tunable doping level, structure and improved photoelectrochemical performance. <i>Nano Energy</i> , 2013, 2, 328-336.	8.2	49
76	Using iron fertilizer to control Cd accumulation in rice plants: A new promising technology. <i>Science in China Series C: Life Sciences</i> , 2008, 51, 245-253.	1.3	48
77	Spontaneous Growth and Chemical Reduction Ability of Ge Nanoparticles. <i>Scientific Reports</i> , 2013, 3, .	1.6	48
78	RGO-functionalized polymer nanofibrous membrane with exceptional surface activity and ultra-low airflow resistance for PM <sub>2.5</sub> filtration. <i>Environmental Science: Nano</i> , 2018, 5, 1813-1820.	2.2	47
79	On the $\gamma$ phase formation in Cr-Al and Ti-Al-Cr alloys. <i>Acta Materialia</i> , 2000, 48, 3671-3685.	3.8	46
80	Ultrafast solid-state lithium ion conductor through alloying induced lattice softening of Li <sub>6</sub> PS <sub>5</sub> Cl. <i>Journal of Materials Chemistry A</i> , 2018, 6, 19231-19240.	5.2	46
81	Multidimensional Controllable Synthesis of Ant Nest Structural Electrode Materials with Unique 3D Hierarchical Porous Features toward Electrochemical Applications. <i>Advanced Functional Materials</i> , 2019, 29, 1808994.	7.8	46
82	Reactive plasma deposition of high quality single phase CuO thin films suitable for metal oxide solar cells. <i>Journal of Alloys and Compounds</i> , 2017, 695, 3116-3123.	2.8	45
83	Construction of a low-defect and highly conductive 3D graphene network to enable a high sulphur content cathode for high performance Li/S/graphene batteries. <i>Journal of Materials Chemistry A</i> , 2018, 6, 22555-22565.	5.2	45
84	Reduced bilateral recombination by functional molecular interface engineering for efficient inverted perovskite solar cells. <i>Nano Energy</i> , 2020, 78, 105249.	8.2	45
85	Complex permittivity-dependent plasma confinement-assisted growth of asymmetric vertical graphene nanofiber membrane for high-performance Li/S full cells. <i>Informa Mater</i> , 2022, 4, .	8.5	45
86	Rheo-processing of an alloy specifically designed for semi-solid metal processing based on the Al-Mg-Si system. <i>Materials Science &amp; Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2008, 476, 341-349.	2.6	44
87	Limitation and extrapolation correction of the GGA + U formalism: a case study of Nb-doped anatase TiO <sub>2</sub> . <i>Journal of Materials Chemistry C</i> , 2013, 1, 3736.	2.7	44
88	Fabrication of Predominantly Mn <sup>4+</sup> -Doped TiO <sub>2</sub> Nanoparticles under Equilibrium Conditions and Their Application as Visible-Light Photocatalysts. <i>Chemistry - an Asian Journal</i> , 2014, 9, 1904-1912.	1.7	44
89	Nanoscale hybrid multidimensional perovskites with alternating cations for high performance photovoltaic. <i>Nano Energy</i> , 2019, 65, 104050.	8.2	44
90	Solvent-regulated solvothermal synthesis and morphology-dependent gas-sensing performance of low-dimensional tungsten oxide nanocrystals. <i>Sensors and Actuators B: Chemical</i> , 2014, 205, 391-400.	4.0	43

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91	Enabling remarkable cycling performance of high-loading MoS <sub>2</sub> @Graphene anode for sodium ion batteries with tunable cut-off voltage. <i>Journal of Power Sources</i> , 2020, 458, 228040.	4.0	43
92	Enabling Argyrodite Sulfides as Superb Solid-State Electrolyte with Remarkable Interfacial Stability Against Electrodes. <i>Energy and Environmental Materials</i> , 2022, 5, 852-864.	7.3	43
93	Phase formation in VAl and TiAlV alloys. <i>Philosophical Magazine A: Physics of Condensed Matter, Structure, Defects and Mechanical Properties</i> , 1995, 71, 1389-1408.	0.7	42
94	Study of three-phase equilibrium in the Nb-rich corner of Nb-Si-Cr system. <i>Intermetallics</i> , 2006, 14, 832-837.	1.8	42
95	Mn-doped TiO <sub>2</sub> thin films with significantly improved optical and electrical properties. <i>Journal Physics D: Applied Physics</i> , 2012, 45, 485102.	1.3	42
96	Remote plasma sputtering deposited Nb-doped TiO <sub>2</sub> with remarkable transparent conductivity. <i>Solar Energy Materials and Solar Cells</i> , 2016, 149, 310-319.	3.0	40
97	Synthesis of transition metal oxide nanoparticles with ultrahigh oxygen adsorption capacity and efficient catalytic oxidation performance. <i>Journal of Materials Chemistry</i> , 2009, 19, 6097.	6.7	39
98	Fabrication and photovoltaic performance of niobium doped TiO <sub>2</sub> hierarchical microspheres with exposed {001} facets and high specific surface area. <i>Applied Surface Science</i> , 2017, 410, 241-248.	3.1	39
99	A theoretical approach to address interfacial problems in all-solid-state lithium ion batteries: tuning materials chemistry for electrolyte and buffer coatings based on Li <sub>6</sub> PS <sub>5</sub> Cl halichalcogenides. <i>Journal of Materials Chemistry A</i> , 2019, 7, 5239-5247.	5.2	39
100	Large-scale synthesis and enhanced visible-light-driven photocatalytic performance of hierarchical Ag/AgCl nanocrystals derived from freeze-dried PVP-Ag <sup>+</sup> hybrid precursors with porosity. <i>Applied Catalysis B: Environmental</i> , 2014, 144, 394-407.	10.8	38
101	Lithium Ion Conductivity in Double Antiperovskite Li <sub>6.5</sub> OS <sub>1.5</sub> I <sub>1.5</sub> : Alloying and Boundary Effects. <i>ACS Applied Energy Materials</i> , 2019, 2, 6288-6294.	2.5	38
102	A mechanism assessment for the anti-corrosion of zirconia coating under the condition of subcritical water corrosion. <i>Corrosion Science</i> , 2019, 152, 54-59.	3.0	38
103	Multilevel polarization-fields enhanced capture and photocatalytic conversion of particulate matter over flexible schottky-junction nanofiber membranes. <i>Journal of Hazardous Materials</i> , 2020, 395, 122639.	6.5	38
104	Stable all-solid-state battery enabled with Li <sub>6.25</sub> PS <sub>5.25</sub> Cl <sub>0.75</sub> as fast ion-conducting electrolyte. <i>Journal of Energy Chemistry</i> , 2021, 53, 147-154.	7.1	38
105	Regulation of energetic hot carriers on Pt/TiO <sub>2</sub> with thermal energy for photothermal catalysis. <i>Applied Catalysis B: Environmental</i> , 2022, 309, 121263.	10.8	38
106	Durable self-polishing antifouling Cu-Ti coating by a micron-scale Cu/Ti laminated microstructure design. <i>Journal of Materials Science and Technology</i> , 2021, 79, 62-74.	5.6	37
107	Pinning Bromide Ion with Ionic Liquid in Lead-Free Cs <sub>2</sub> AgBiBr <sub>6</sub> Double Perovskite Solar Cells. <i>Advanced Functional Materials</i> , 2022, 32, .	7.8	37
108	Theoretical design of double anti-perovskite Na <sub>6</sub> SOI <sub>2</sub> as a super-fast ion conductor for solid Na <sup>+</sup> ion batteries. <i>Journal of Materials Chemistry A</i> , 2018, 6, 19843-19852.	5.2	36



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109	Thermodynamic and kinetic aspects of intermetallic amorphous alloys. <i>Intermetallics</i> , 2003, 11, 313-324.	1.8	35
110	Structural engineering of thin films of vertically aligned TiO <sub>2</sub> nanorods. <i>Materials Letters</i> , 2010, 64, 1614-1617.	1.3	35
111	Three-dimensional Porous Networks of Ultra-long Electrospun SnO <sub>2</sub> Nanotubes with High Photocatalytic Performance. <i>Nano-Micro Letters</i> , 2015, 7, 86-95.	14.4	35
112	X-ray photoelectron spectroscopy studies of Ti-Al and Ti-Al-V alloys using Cr K $\alpha$ radiation. <i>Surface and Interface Analysis</i> , 2001, 31, 734-744.	0.8	34
113	Phase selection and visible light photo-catalytic activity of Fe-doped TiO <sub>2</sub> prepared by the hydrothermal method. <i>Materials Research Bulletin</i> , 2011, 46, 442-446.	2.7	34
114	P2-type Na <sub>2/3</sub> Ni <sub>1/3</sub> Mn <sub>2/3</sub> O <sub>2</sub> Cathode Material with Excellent Rate and Cycling Performance for Sodium-Ion Batteries. <i>Journal of the Electrochemical Society</i> , 2019, 166, A3980-A3986.	1.3	34
115	Functional carbon nitride materials for water oxidation: from heteroatom doping to interface engineering. <i>Nanoscale</i> , 2020, 12, 6937-6952.	2.8	34
116	Solidification structures of Ti-Al-Cr alloys. <i>Intermetallics</i> , 1999, 7, 579-587.	1.8	33
117	Electronic structure and bonding in Mo <sub>3</sub> Si, Mo <sub>5</sub> Si <sub>3</sub> , and Mo(Si,Al) <sub>2</sub> alloys investigated by x-ray photoelectron spectroscopy and density-functional theory. <i>Physical Review B</i> , 2005, 71, .	1.1	33
118	Investigation of the hydrogen bonding in ice Ih by first-principles density function methods. <i>Journal of Chemical Physics</i> , 2012, 137, 044504.	1.2	33
119	Covalently Connecting Crystal Grains with Polyvinylammonium Carbochain Backbone To Suppress Grain Boundaries for Long-Term Stable Perovskite Solar Cells. <i>ACS Applied Materials &amp; Interfaces</i> , 2017, 9, 6064-6071.	4.0	33
120	High-capacity cathodes for magnesium lithium chlorine tri-ion batteries through chloride intercalation in layered MoS <sub>2</sub> : a computational study. <i>Journal of Materials Chemistry A</i> , 2018, 6, 6830-6839.	5.2	33
121	First principles study for band engineering of KNbO <sub>3</sub> with 3d transition metal substitution. <i>RSC Advances</i> , 2019, 9, 7551-7559.	1.7	33
122	Simultaneously boost diffusion length and stability of perovskite for high performance solar cells. <i>Nano Energy</i> , 2019, 59, 721-729.	8.2	33
123	Calculations of charge transfer in Nb <sub>17</sub> Al and V <sub>50</sub> Al alloys, using the Auger parameter. <i>Intermetallics</i> , 1999, 7, 937-946.	1.8	32
124	The formation and stacking faults of Fe and Cr containing Laves phase in Zircaloy-4 alloy. <i>Materials Letters</i> , 2017, 191, 203-205.	1.3	32
125	Enhanced efficiency and stability of perovskite solar cells by 2D perovskite vapor-assisted interface optimization. <i>Journal of Energy Chemistry</i> , 2020, 45, 103-109.	7.1	32
126	Nano-porous hollow Li <sub>0.5</sub> La <sub>0.5</sub> TiO <sub>3</sub> spheres and electronic structure modulation for ultra-fast H <sub>2</sub> S detection. <i>Journal of Materials Chemistry A</i> , 2020, 8, 2376-2386.	5.2	32



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127	Computational design of high efficiency FeSi <sub>2</sub> thin-film solar cells. <i>Thin Solid Films</i> , 2011, 519, 8490-8495.	0.8	31
128	The effect of cobalt doping on the morphology and electrochemical performance of high-voltage spinel LiNi <sub>0.5</sub> Mn <sub>1.5</sub> O <sub>4</sub> cathode material. <i>Solid State Ionics</i> , 2016, 292, 70-74.	1.3	31
129	Simulation of planar Si/Mg <sub>2</sub> Si/Si p-i-n heterojunction solar cells for high efficiency. <i>Solar Energy</i> , 2017, 158, 654-662.	2.9	31
130	Synergistic Cooperation of Rutile TiO <sub>2</sub> {002}, {101}, and {110} Facets for Hydrogen Sensing. <i>ACS Applied Materials &amp; Interfaces</i> , 2018, 10, 28199-28209.	4.0	31
131	Synergistic effect of cation ordered structure and grain boundary engineering on long-term cycling of Li <sub>0.35</sub> La <sub>0.55</sub> TiO <sub>3</sub> -based solid batteries. <i>Journal of the European Ceramic Society</i> , 2019, 39, 3332-3337.	2.8	31
132	In-plane grain boundary induced defect state in hierarchical NiCo-LDH and effect on battery-type charge storage. <i>Nano Research</i> , 2023, 16, 4908-4916.	5.8	31
133	Is there a future for semiconducting silicides? (invited). <i>Microelectronic Engineering</i> , 2000, 50, 223-235.	1.1	30
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