

# Guosheng Shao

## List of Publications by Citations

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329  
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360  
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10,909  
ext. citations

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L-index

#	Paper	IF	Citations
329	An efficient room-temperature silicon-based light-emitting diode. <i>Nature</i> , <b>2001</b> , 410, 192-4	50.4	533
328	Mn-doped TiO <sub>2</sub> nanopowders with remarkable visible light photocatalytic activity. <i>Materials Letters</i> , <b>2011</b> , 65, 2051-2054	3.3	163
327	Phase Pure 2D Perovskite for High-Performance 2D-3D Heterostructured Perovskite Solar Cells. <i>Advanced Materials</i> , <b>2018</b> , 30, e1805323	24	161
326	Two-dimensional Ruddlesden-Popper layered perovskite solar cells based on phase-pure thin films. <i>Nature Energy</i> , <b>2021</b> , 6, 38-45	62.3	155
325	Red Shift in Manganese- and Iron-Doped TiO <sub>2</sub> : A DFT+U Analysis. <i>Journal of Physical Chemistry C</i> , <b>2009</b> , 113, 6800-6808	3.8	137
324	Oxidation of NbSiCrAl in situ composites with Mo, Ti and Hf additions. <i>Materials Science &amp; Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , <b>2006</b> , 441, 26-38	5.3	132
323	Inkjet manipulated homogeneous large size perovskite grains for efficient and large-area perovskite solar cells. <i>Nano Energy</i> , <b>2018</b> , 46, 203-211	17.1	124
322	Electronic Structures of Manganese-Doped Rutile TiO <sub>2</sub> from First Principles. <i>Journal of Physical Chemistry C</i> , <b>2008</b> , 112, 18677-18685	3.8	121
321	Porous Carbons: Structure-Oriented Design and Versatile Applications. <i>Advanced Functional Materials</i> , <b>2020</b> , 30, 1909265	15.6	119
320	On the oxidation behaviour of MoSi <sub>2</sub> . <i>Intermetallics</i> , <b>2001</b> , 9, 125-136	3.5	114
319	The formation of onion-like carbon-encapsulated cobalt carbide core/shell nanoparticles by the laser ablation of metallic cobalt in acetone. <i>Carbon</i> , <b>2013</b> , 55, 108-115	10.4	105
318	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> , <b>2016</b> , 328, 28-36	8.9	104
317	Prediction of amorphous phase stability in the metal-silicon systems. <i>Journal of Applied Physics</i> , <b>2001</b> , 90, 724-727	2.5	97
316	Template-oriented synthesis of monodispersed SnS <sub>2</sub> @SnO <sub>2</sub> hetero-nanoflowers for Cr(VI) photoreduction. <i>Applied Catalysis B: Environmental</i> , <b>2016</b> , 192, 17-25	21.8	96
315	A study of the effects of Hf and Sn additions on the microstructure of Nb <sub>5</sub> Si <sub>3</sub> based in situ composites. <i>Intermetallics</i> , <b>2007</b> , 15, 69-76	3.5	93
314	Highly oriented Ge-doped hematite nanosheet arrays for photoelectrochemical water oxidation. <i>Nano Energy</i> , <b>2014</b> , 9, 282-290	17.1	89
313	One-dimensional Z-scheme TiO <sub>2</sub> /WO <sub>3</sub> /Pt heterostructures for enhanced hydrogen generation. <i>Applied Surface Science</i> , <b>2017</b> , 391, 211-217	6.7	86

312	Electronic Properties of Rutile TiO <sub>2</sub> with Nonmetal Dopants from First Principles. <i>Journal of Physical Chemistry C</i> , <b>2011</b> , 115, 8274-8282	3.8	86
311	Plasmon enhancement on photocatalytic hydrogen production over the Z-scheme photosynthetic heterojunction system. <i>Applied Catalysis B: Environmental</i> , <b>2017</b> , 210, 297-305	21.8	85
310	Thermodynamic reassessment of the MoSi and Al <sub>2</sub> MoSi systems. <i>Intermetallics</i> , <b>2000</b> , 8, 953-962	3.5	85
309	Buried Interfaces in Halide Perovskite Photovoltaics. <i>Advanced Materials</i> , <b>2021</b> , 33, e2006435	24	83
308	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> , <b>2014</b> , 2, 18867-18874	13	82
307	Room temperature fabrication of p-channel Cu <sub>2</sub> O thin-film transistors on flexible polyethylene terephthalate substrates. <i>Applied Physics Letters</i> , <b>2012</b> , 101, 042114	3.4	82
306	The effects of Ti and Mo additions on the microstructure of Nb-silicide based in situ composites. <i>Intermetallics</i> , <b>2006</b> , 14, 227-235	3.5	82
305	Thermodynamic modelling of the YZn and MgZn <sub>2</sub> systems. <i>Calphad: Computer Coupling of Phase Diagrams and Thermochemistry</i> , <b>2006</b> , 30, 286-295	1.9	81
304	Recent Advances in Effective Reduction of Graphene Oxide for Highly Improved Performance Toward Electrochemical Energy Storage. <i>Energy and Environmental Materials</i> , <b>2018</b> , 1, 5-12	13	78
303	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> , <b>2018</b> , 430, 466-474	6.7	78
302	Pinecone biomass-derived hard carbon anodes for high-performance sodium-ion batteries. <i>RSC Advances</i> , <b>2017</b> , 7, 41504-41511	3.7	78
301	Prediction of phase selection in rapid solidification using time dependent nucleation theory. <i>Acta Metallurgica Et Materialia</i> , <b>1994</b> , 42, 2937-2942		77
300	Dye-sensitized solar cells based on TiO <sub>2</sub> nanoparticles/nanobelts double-layered film with improved photovoltaic performance. <i>Applied Surface Science</i> , <b>2014</b> , 319, 75-82	6.7	75
299	Vertically aligned graphene nanosheets on multi-yolk/shell structured TiC@C nanofibers for stable LiB batteries. <i>Energy Storage Materials</i> , <b>2020</b> , 27, 159-168	19.4	73
298	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> , <b>2013</b> , 185, 445-455	8.5	71
297	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> , <b>2014</b> , 6, 13690-700	7.7	70
296	One-Step Inkjet Printed Perovskite in Air for Efficient Light Harvesting. <i>Solar Rrl</i> , <b>2018</b> , 2, 1700217	7.1	68
295	Role of materials chemistry on the electrical/electronic properties of CuO thin films. <i>Acta Materialia</i> , <b>2015</b> , 85, 122-131	8.4	64

294	Chemical bath deposited rutile TiO <sub>2</sub> compact layer toward efficient planar heterojunction perovskite solar cells. <i>Applied Surface Science</i> , <b>2017</b> , 391, 337-344	6.7	62
293	Direct evidence of 2D/1D heterojunction enhancement on photocatalytic activity through assembling MoS <sub>2</sub> nanosheets onto super-long TiO <sub>2</sub> nanofibers. <i>Applied Surface Science</i> , <b>2020</b> , 504, 144367	6.7	60
292	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> , <b>2016</b> , 220, 258-266	6.7	60
291	Photogenerated Electron Transfer Process in Heterojunctions: In Situ Irradiation XPS. <i>Small Methods</i> , <b>2020</b> , 4, 2000214	12.8	59
290	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> , <b>2015</b> , 5, 328-337	3.7	58
289	Electronic properties of rutile TiO <sub>2</sub> doped with 4d transition metals: First-principles study. <i>Journal of Alloys and Compounds</i> , <b>2013</b> , 551, 118-124	5.7	57
288	A flexible metallic TiC nanofiber/vertical graphene 1D/2D heterostructured as active electrocatalyst for advanced LiB batteries. <i>Information Materials</i> , <b>2021</b> , 3, 790-803	23.1	57
287	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> , <b>2017</b> , 5, 21846-21857	13	55
286	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> , <b>2020</b> , 47, 281-290	12	55
285	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> , <b>2018</b> , 261, 227-235	6.7	55
284	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> , <b>2018</b> , 430, 415-423	6.7	55
283	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> , <b>2014</b> , 16, 8801-7	7.6	55
282	Ruddlesden-Popper Perovskite for Stable Solar Cells. <i>Energy and Environmental Materials</i> , <b>2018</b> , 1, 221-231	11	54
281	Synthesis and Ag-loading-density-dependent photocatalytic activity of Ag@TiO <sub>2</sub> hybrid nanocrystals. <i>Applied Surface Science</i> , <b>2013</b> , 284, 921-929	6.7	53
280	Thermodynamic assessment of the Nb <sub>5</sub> Si <sub>3</sub> Al system. <i>Intermetallics</i> , <b>2004</b> , 12, 655-664	3.5	53
279	On the oxidation behavior of (Zr,Nb) <sub>2</sub> Fe under simulated nuclear reactor conditions. <i>Corrosion Science</i> , <b>2016</b> , 112, 718-723	6.8	53
278	Prediction of amorphous phase stability in metallic alloys. <i>Journal of Applied Physics</i> , <b>2000</b> , 88, 4443	2.5	52
277	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> , <b>2016</b> , 8, 9116-24	9.5	50

276	Origin of significant visible-light absorption properties of Mn-doped TiO <sub>2</sub> thin films. <i>Acta Materialia</i> , <b>2012</b> , 60, 1974-1985	8.4	49
275	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> , <b>2018</b> , 6, 73-83	13	49
274	Effects of intensive forced melt convection on the mechanical properties of Fe containing AlSi based alloys. <i>Materials Science &amp; Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , <b>2007</b> , 445-446, 65-72	5.3	48
273	Amorphous-iron disilicide: A promising semiconductor. <i>Applied Physics Letters</i> , <b>2001</b> , 79, 1438-1440	3.4	48
272	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> , <b>2017</b> , 372, 235-244	8.9	47
271	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> , <b>2007</b> , 15, 270-281	3.5	47
270	Thermodynamic modelling of the Cr-Nb-Si system. <i>Intermetallics</i> , <b>2005</b> , 13, 69-78	3.5	46
269	Ge-doped hematite nanosheets with tunable doping level, structure and improved photoelectrochemical performance. <i>Nano Energy</i> , <b>2013</b> , 2, 328-336	17.1	44
268	Spontaneous Growth and Chemical Reduction Ability of Ge Nanoparticles. <i>Scientific Reports</i> , <b>2013</b> , 3,	4.9	44
267	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> , <b>2020</b> , 398, 125602	14.7	43
266	Reactive plasma deposition of high quality single phase CuO thin films suitable for metal oxide solar cells. <i>Journal of Alloys and Compounds</i> , <b>2017</b> , 695, 3116-3123	5.7	41
265	Polyethyleneimine High-Energy Hydrophilic Surface Interfacial Treatment toward Efficient and Stable Perovskite Solar Cells. <i>ACS Applied Materials &amp; Interfaces</i> , <b>2016</b> , 8, 32574-32580	9.5	41
264	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> , <b>2008</b> , 476, 341-349	5.3	40
263	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> , <b>2014</b> , 9, 1904-12	4.5	39
262	Solvent-regulated solvothermal synthesis and morphology-dependent gas-sensing performance of low-dimensional tungsten oxide nanocrystals. <i>Sensors and Actuators B: Chemical</i> , <b>2014</b> , 205, 391-400	8.5	39
261	Construction of a low-defect and highly conductive 3D graphene network to enable a high sulphur content cathode for high performance LiS/graphene batteries. <i>Journal of Materials Chemistry A</i> , <b>2018</b> , 6, 22555-22565	13	39
260	Phase formation in V-Al and Ti-Al-V alloys. <i>Philosophical Magazine A: Physics of Condensed Matter, Structure, Defects and Mechanical Properties</i> , <b>1995</b> , 71, 1389-1408		38
259	Molecular Beam Epitaxy Scalable Growth of Wafer-Scale Continuous Semiconducting Monolayer MoTe on Inert Amorphous Dielectrics. <i>Advanced Materials</i> , <b>2019</b> , 31, e1901578	24	37

258	RGO-functionalized polymer nanofibrous membrane with exceptional surface activity and ultra-low airflow resistance for PM2.5 filtration. <i>Environmental Science: Nano</i> , <b>2018</b> , 5, 1813-1820	7.1	37
257	Numerical study of metal oxide heterojunction solar cells. <i>Semiconductor Science and Technology</i> , <b>2011</b> , 26, 085026	1.8	37
256	Using iron fertilizer to control Cd accumulation in rice plants: a new promising technology. <i>Science in China Series C: Life Sciences</i> , <b>2008</b> , 51, 245-53		37
255	Study of three-phase equilibrium in the Nb-rich corner of Nb <sub>5</sub> Si <sub>3</sub> Ti system. <i>Intermetallics</i> , <b>2006</b> , 14, 832-833	3.5	37
254	First Principle Material Genome Approach for All Solid-State Batteries. <i>Energy and Environmental Materials</i> , <b>2019</b> , 2, 234-250	13	36
253	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> , <b>2013</b> , 1, 3736	7.1	36
252	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 LiB batteries. <i>Journal of Materials Chemistry A</i> , <b>2020</b> , 8, 25255-25267	13	36
251	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> , <b>2017</b> , 410, 241-248	6.7	34
250	Mn-doped TiO <sub>2</sub> thin films with significantly improved optical and electrical properties. <i>Journal of Physics D: Applied Physics</i> , <b>2012</b> , 45, 485102	3	34
249	On the $\beta$ phase formation in CrAl and TiAlCr alloys. <i>Acta Materialia</i> , <b>2000</b> , 48, 3671-3685	8.4	34
248	Synthesis of transition metal oxide nanoparticles with ultrahigh oxygen adsorption capacity and efficient catalytic oxidation performance. <i>Journal of Materials Chemistry</i> , <b>2009</b> , 19, 6097		33
247	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> , <b>2014</b> , 144, 394-407	21.8	32
246	Thermodynamic and kinetic aspects of intermetallic amorphous alloys. <i>Intermetallics</i> , <b>2003</b> , 11, 313-324	3.5	32
245	Dual Evolution in Defect and Morphology of Single-Atom Dispersed Carbon Based Oxygen Electrocatalyst. <i>Advanced Functional Materials</i> , <b>2021</b> , 31, 2010472	15.6	32
244	Three-dimensional Porous Networks of Ultra-long Electrospun SnO Nanotubes with High Photocatalytic Performance. <i>Nano-Micro Letters</i> , <b>2015</b> , 7, 86-95	19.5	31
243	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> , <b>2011</b> , 46, 442-446	5.1	31
242	Investigation of the hydrogen bonding in ice Ih by first-principles density function methods. <i>Journal of Chemical Physics</i> , <b>2012</b> , 137, 044504	3.9	31
241	Structural engineering of thin films of vertically aligned TiO <sub>2</sub> nanorods. <i>Materials Letters</i> , <b>2010</b> , 64, 1614-1617	3.5	31

240	Remote plasma sputtering deposited Nb-doped TiO <sub>2</sub> with remarkable transparent conductivity. <i>Solar Energy Materials and Solar Cells</i> , <b>2016</b> , 149, 310-319	6.4	30
239	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> , <b>2017</b> , 9, 6064-6071	9.5	29
238	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> , <b>2005</b> , 71,	3.3	29
237	Calculations of charge transfer in Nb <sub>1-7</sub> Al and V <sub>8-10</sub> Al alloys, using the Auger parameter. <i>Intermetallics</i> , <b>1999</b> , 7, 937-946	3.5	29
236	Multidimension-Controllable Synthesis of Ant Nest-Structural Electrode Materials with Unique 3D Hierarchical Porous Features toward Electrochemical Applications. <i>Advanced Functional Materials</i> , <b>2019</b> , 29, 1808994	15.6	28
235	Is there a future for semiconducting silicides? (invited). <i>Microelectronic Engineering</i> , <b>2000</b> , 50, 223-235	2.5	28
234	Strong interplay between dopant and SnO <sub>2</sub> in amorphous transparent (Sn, Nb)O <sub>2</sub> anode with high conductivity in electrochemical cycling. <i>Journal of Alloys and Compounds</i> , <b>2018</b> , 735, 2401-2409	5.7	28
233	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> , <b>2018</b> , 6, 19231-19240	13	28
232	A mechanism assessment for the anti-corrosion of zirconia coating under the condition of subcritical water corrosion. <i>Corrosion Science</i> , <b>2019</b> , 152, 54-59	6.8	27
231	Glass forming ability of multi-component metallic systems. <i>Intermetallics</i> , <b>2005</b> , 13, 409-414	3.5	27
230	Ion beam synthesis of superconducting MgB <sub>2</sub> thin films. <i>Applied Physics Letters</i> , <b>2003</b> , 82, 236-238	3.4	27
229	Effect of implantation temperature on dislocation loop formation and origin of 1.55- $\mu\text{m}$ photoluminescence from ion-beam-synthesized FeSi <sub>2</sub> precipitates in silicon. <i>Applied Physics Letters</i> , <b>2003</b> , 83, 42-44	3.4	27
228	On the crystallographic characteristics of ion beam synthesised FeSi <sub>2</sub> . <i>Intermetallics</i> , <b>2000</b> , 8, 1405-1412	3.5	27
227	Solidification structures of TiAlCr alloys. <i>Intermetallics</i> , <b>1999</b> , 7, 579-587	3.5	27
226	Reduced bilateral recombination by functional molecular interface engineering for efficient inverted perovskite solar cells. <i>Nano Energy</i> , <b>2020</b> , 78, 105249	17.1	27
225	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> , <b>2020</b> , 458, 228040	8.9	26
224	Multilevel polarization-fields enhanced capture and photocatalytic conversion of particulate matter over flexible schottky-junction nanofiber membranes. <i>Journal of Hazardous Materials</i> , <b>2020</b> , 395, 122639	12.8	26
223	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> , <b>2018</b> , 6, 6830-6839	13	26

222	Engineering of boron-induced dislocation loops for efficient room-temperature silicon light-emitting diodes. <i>Journal of Applied Physics</i> , <b>2005</b> , 97, 073512	2.5	26
221	Simulation of planar Si/Mg <sub>2</sub> Si/Si p-i-n heterojunction solar cells for high efficiency. <i>Solar Energy</i> , <b>2017</b> , 158, 654-662	6.8	25
220	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> , <b>2016</b> , 292, 70-74	3.3	25
219	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> , <b>2019</b> , 2, 6288-6294	6.1	25
218	Computational design of high efficiency FeSi <sub>2</sub> thin-film solar cells. <i>Thin Solid Films</i> , <b>2011</b> , 519, 8490-8495	2.2	25
217	Metastability of the o-phase in transition-metal aluminides: First-principles structural predictions. <i>Philosophical Magazine A: Physics of Condensed Matter, Structure, Defects and Mechanical Properties</i> , <b>1996</b> , 74, 1385-1397		25
216	Efficient silicon light emitting diodes made by dislocation engineering. <i>Physica E: Low-Dimensional Systems and Nanostructures</i> , <b>2003</b> , 16, 376-381	3	25
215	X-ray photoelectron spectroscopy studies of TiAl and TiAl <sub>3</sub> alloys using Cr K $\alpha$ radiation. <i>Surface and Interface Analysis</i> , <b>2001</b> , 31, 734-744	1.5	25
214	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> , <b>2020</b> , 8, 2376-2386	13	25
213	Self-aligned TiO <sub>2</sub> thin films with remarkable hydrogen sensing functionality. <i>Sensors and Actuators B: Chemical</i> , <b>2012</b> , 171-172, 165-171	8.5	24
212	On the solidification microstructure of Mg <sub>30</sub> Zn <sub>70.5</sub> Y metal intermetallic alloy. <i>Intermetallics</i> , <b>2006</b> , 14, 596-602	3.5	24
211	Synthesis of amorphous FeSi <sub>2</sub> by ion beam mixing. <i>Nuclear Instruments &amp; Methods in Physics Research B</i> , <b>2002</b> , 188, 166-169	1.2	24
210	Remarkable optical red shift and extremely high optical absorption coefficient of V-Ga co-doped TiO <sub>2</sub> . <i>Journal of Applied Physics</i> , <b>2012</b> , 112, 013523	2.5	23
209	On the role of dislocation loops in silicon light emitting diodes. <i>Applied Physics Letters</i> , <b>2005</b> , 87, 201105	3.4	23
208	Thermodynamic assessment of the RuBi and OsBi systems. <i>Journal of Alloys and Compounds</i> , <b>2001</b> , 320, 72-79	5.7	23
207	Lithium-Sulfur Batteries Meet Electrospinning: Recent Advances and the Key Parameters for High Gravimetric and Volume Energy Density. <i>Advanced Science</i> , <b>2021</b> , e2103879	13.6	23
206	Rational Designs for Lithium-Sulfur Batteries with Low Electrolyte/Sulfur Ratio. <i>Advanced Functional Materials</i> , <b>2021</b> , 31, 2010499	15.6	23
205	Theoretical design of double anti-perovskite Na <sub>6</sub> SO <sub>12</sub> as a super-fast ion conductor for solid Na <sup>+</sup> ion batteries. <i>Journal of Materials Chemistry A</i> , <b>2018</b> , 6, 19843-19852	13	23



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