

Guosheng Shao

List of Publications by Year in Descending Order

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The third column is the impact factor (IF) of the journal, and the fourth column is the number of citations of the article.

329
papers

9,048
citations

52
h-index

76
g-index

360
ext. papers

10,909
ext. citations

7.4
avg, IF

6.72
L-index

#	Paper	IF	Citations
329	Tracking charge transfer pathways in SrTiO ₃ /CoP/Mo ₂ C nanofibers for enhanced photocatalytic solar fuel production. <i>Chinese Journal of Catalysis</i> , 2022 , 43, 507-518	11.3	4
328	Mechanism of enhanced H ₂ S sensor ability based on emerging Li _{0.5} La _{0.5} TiO ₃ -SnO ₂ core-shell structure. <i>Sensors and Actuators B: Chemical</i> , 2022 , 352, 131054	8.5	4
327	Near solution-level conductivity of polyvinyl alcohol based electrolyte and the application for fully compliant Al-air battery. <i>Chemical Engineering Journal</i> , 2022 , 431, 134283	14.7	4
326	In Situ Monitored (N, O)-Doping of Flexible Vertical Graphene Films with High-Flux Plasma Enhanced Chemical Vapor Deposition for Remarkable Metal-Free Redox Catalysis Essential to Alkaline Zinc-Air Batteries.. <i>Advanced Science</i> , 2022 , e2200614	13.6	4
325	Energy level matching between transparent conducting electrodes and the electronic transport layer to enhance performance of all-inorganic CsPbBr ₃ solar cells. <i>Vacuum</i> , 2022 , 200, 111028	3.7	2
324	Microstructural and mechanical evolution of amorphous Zr-Si with irradiation induced atomic reconfiguration and free volume variation. <i>Surfaces and Interfaces</i> , 2022 , 30, 101890	4.1	1
323	Regulation of energetic hot carriers on Pt/TiO ₂ with thermal energy for photothermal catalysis. <i>Applied Catalysis B: Environmental</i> , 2022 , 309, 121263	21.8	1
322	Entropy Change Characteristics for Sodium Ion Half/Full Cells Based on Na ₃ V ₂ (PO ₄) ₃ and Hard Carbon Materials. <i>Journal of the Electrochemical Society</i> , 2022 , 169, 050503	3.9	0
321	On the thermal stability and oxidation resistance of Zr/X(Cr, Ni, Si) multilayer structure. <i>Surface and Coatings Technology</i> , 2022 , 440, 128500	4.4	0
320	Heat Generation and Temperature Rise Characteristics of Single Overcharged Lithium-Ion Batteries. <i>Journal of the Electrochemical Society</i> , 2022 , 169, 060502	3.9	
319	Lithium-Sulfur Batteries Meet Electrospinning: Recent Advances and the Key Parameters for High Gravimetric and Volume Energy Density. <i>Advanced Science</i> , 2021 , e2103879	13.6	23
318	A simple synthesis of magnetic metal implanted hierarchical porous carbon networks for efficient microwave absorption. <i>Journal of Materials Chemistry C</i> , 2021 , 9, 14866-14875	7.1	2
317	Effect of coating composition on the micro-galvanic dissolution behavior and antifouling performance of plasma-sprayed laminated-structured Cu Ti composite coating. <i>Surface and Coatings Technology</i> , 2021 , 410, 126963	4.4	2
316	Sponge tofu-like graphene-carbon hybrid supporting Pt ₁₁₀ nanocrystals for efficient oxygen reduction reaction and Zn-Air battery. <i>International Journal of Hydrogen Energy</i> , 2021 , 46, 15561-15571	6.7	2
315	In Situ Electrochemical Intercalation-Induced Phase Transition to Enhance Catalytic Performance for Lithium-Sulfur Battery. <i>Small</i> , 2021 , 17, e2100065	11	14
314	Zif-Derived Electrocatalysis: Dual Evolution in Defect and Morphology of Single-Atom Dispersed Carbon Based Oxygen Electrocatalyst (Adv. Funct. Mater. 19/2021). <i>Advanced Functional Materials</i> , 2021 , 31, 2170132	15.6	
313	Dynamic Reaction Mechanism of P-N-Switched H-Sensing Performance on a Pt-Decorated TiO Surface. <i>ACS Applied Materials & Interfaces</i> , 2021 , 13, 25472-25482	9.5	2

312	Review Research Progress on Layered Transition Metal Oxide Cathode Materials for Sodium Ion Batteries. <i>Journal of the Electrochemical Society</i> , 2021 , 168, 050524	3.9	16
311	A flexible metallic TiC nanofiber/vertical graphene 1D/2D heterostructured as active electrocatalyst for advanced LiB batteries. <i>Information Materials</i> , 2021 , 3, 790-803	23.1	57
310	Synthesis of a Visible-Light-Responsive Perovskite SmTiO N Bifunctional Photocatalyst via an Evaporation-Assisted Layered-Precursor Strategy. <i>Advanced Materials</i> , 2021 , 33, e2101883	24	5
309	Tailoring the Micro-galvanic Dissolution Behavior and Antifouling Performance Through Laminated-Structured Cu-X Composite Coating. <i>Journal of Thermal Spray Technology</i> , 2021 , 30, 1566-1581	2.5	0
308	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	13	17
307	Stable all-solid-state battery enabled with Li ₆ .25PS ₅ .25Cl _{0.75} as fast ion-conducting electrolyte. <i>Journal of Energy Chemistry</i> , 2021 , 53, 147-154	12	16
306	Two-dimensional Ruddlesden-Popper layered perovskite solar cells based on phase-pure thin films. <i>Nature Energy</i> , 2021 , 6, 38-45	62.3	155
305	Rational regulation on charge spatial separation and directional migration in the yolk-shell structural SiO ₂ /Ni ₂ P/rGO/Cd _{0.5} Zn _{0.5} nanoreactor for efficient photocatalytic H ₂ evolution. <i>Chemical Engineering Journal</i> , 2021 , 404, 126497	14.7	12
304	Enhancement of Interfacial Charge Transportation Through Construction of 2D/2D p/n Heterojunctions in Hierarchical 3D CNFs/MoS ₂ /ZnIn ₂ S ₄ Composites to Enable High-Efficiency Photocatalytic Hydrogen Evolution. <i>Solar Rrl</i> , 2021 , 5, 2000722	7.1	10
303	Planar Li growth on Li ₂ Si ₅ modified Li metal for the stabilization of anode. <i>Journal of Materials Science and Technology</i> , 2021 , 76, 156-165	9.1	2
302	Self-consistent assessment of Li ⁺ ion cathodes: Theory vs. experiments. <i>Journal of Energy Chemistry</i> , 2021 , 59, 229-241	12	6
301	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	9.1	10
300	Accelerating directional charge separation via built-in interfacial electric fields originating from work-function differences. <i>Chinese Journal of Catalysis</i> , 2021 , 42, 583-594	11.3	16
299	First-principles formulation of spinel-like structured Li ₄ (B _x)Y _x Cl ₄ as promising solid-state electrolytes to enable superb lithium ion conductivity and matching oxidation potentials to high-voltage cathodes. <i>Journal of Materials Chemistry A</i> , 2021 , 9, 14969-14976	13	0
298	Buried Interfaces in Halide Perovskite Photovoltaics. <i>Advanced Materials</i> , 2021 , 33, e2006435	24	83
297	Dual Evolution in Defect and Morphology of Single-Atom Dispersed Carbon Based Oxygen Electrocatalyst. <i>Advanced Functional Materials</i> , 2021 , 31, 2010472	15.6	32
296	Rational Designs for Lithium-Sulfur Batteries with Low Electrolyte/Sulfur Ratio. <i>Advanced Functional Materials</i> , 2021 , 31, 2010499	15.6	23
295	Bio-inspired construction of electrocatalyst decorated hierarchical porous carbon nanoreactors with enhanced mass transfer ability towards rapid polysulfide redox reactions. <i>Nano Research</i> , 2021 , 14, 3942	10	7

294	Transport of Sodium Ions in Solids: Progress in First-Principle Theoretical Formulation of Potential Solid Sodium-Ion Electrolytes. <i>Batteries and Supercaps</i> , 2021 , 4, 1096-1107	5.6	2
293	Significant performance enhancement of all-inorganic CsPbBr ₃ perovskite solar cells enabled by Nb-doped SnO ₂ as effective electron transport layer. <i>Energy and Environmental Materials</i> , 2021 , 4, 671	13	3
292	Controllable construction of hierarchically CdIn ₂ S ₄ /CNFs/Co ₄ S ₃ nanofiber networks towards photocatalytic hydrogen evolution. <i>Chemical Engineering Journal</i> , 2021 , 419, 129213	14.7	15
291	Array-Structured Double-Ion Cooperative Adsorption Sites as Multifunctional Sulfur Hosts for Lithium-Sulfur Batteries with Low Electrolyte/Sulfur Ratio. <i>ACS Nano</i> , 2021 , 15, 16322-16334	16.7	2
290	Mechanical/Electrochemical Coupling structure and the application as a three-dimensional current collector for lithium metal anode. <i>Applied Surface Science</i> , 2021 , 563, 150247	6.7	5
289	Quasi-solid-state self-assembly of 1D-branched ZnSe/ZnS quantum rods into parallel monorail-like continuous films for solar devices. <i>Nano Energy</i> , 2021 , 89, 106348	17.1	2
288	Room-like TiO ₂ Array as a Sulfur Host for Lithium-Sulfur Batteries: Combining Advantages of Array and Closed Structures. <i>ACS Sustainable Chemistry and Engineering</i> , 2020 , 8, 7609-7616	8.3	15
287	Two-pronged approach to regulate Li etching for a stable anode. <i>Journal of Power Sources</i> , 2020 , 455, 227988	8.9	12
286	Photogenerated Electron Transfer Process in Heterojunctions: In Situ Irradiation XPS. <i>Small Methods</i> , 2020 , 4, 2000214	12.8	59
285	Enabling remarkable cycling performance of high-loading MoS ₂ @Graphene anode for sodium ion batteries with tunable cut-off voltage. <i>Journal of Power Sources</i> , 2020 , 458, 228040	8.9	26
284	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	12	55
283	Porous Carbons: Structure-Oriented Design and Versatile Applications. <i>Advanced Functional Materials</i> , 2020 , 30, 1909265	15.6	119
282	Entropy Change Characteristics of the LiNiMnO Cathode Material for Lithium-Ion Batteries. <i>ACS Omega</i> , 2020 , 5, 4109-4114	3.9	4
281	Functional carbon nitride materials for water oxidation: from heteroatom doping to interface engineering. <i>Nanoscale</i> , 2020 , 12, 6937-6952	7.7	20
280	Controlling the film structure by regulating 2D Ruddlesden-Popper perovskite formation enthalpy for efficient and stable tri-cation perovskite solar cells. <i>Journal of Materials Chemistry A</i> , 2020 , 8, 5874-5881	13	16
279	Theoretical identification of layered MXene phase Na _x Ti ₄ C ₂ O ₄ as superb anodes for rechargeable sodium-ion batteries. <i>Journal of Materials Chemistry A</i> , 2020 , 8, 11177-11187	13	12
278	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	19.4	73
277	In-situ hydrogen production and storage in (0 0 2) oriented TiO ₂ thin films. <i>Applied Surface Science</i> , 2020 , 509, 145366	6.7	8

276	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	12.8	26
275	Confining sulfur in intact freestanding scaffold of yolk-shell nanofibers with high sulfur content for lithium-sulfur batteries. <i>Journal of Energy Chemistry</i> , 2020 , 51, 378-387	12	10
274	Theoretical formulation of LiNX (X = halogen) as a potential artificial solid electrolyte interphase (ASEI) to protect the Li anode. <i>Physical Chemistry Chemical Physics</i> , 2020 , 22, 12918-12928	3.6	2
273	Effective promotion of spacial charge separation in direct Z-scheme WO ₃ /CdS/WS ₂ tandem heterojunction with enhanced visible-light-driven photocatalytic H ₂ evolution. <i>Chemical Engineering Journal</i> , 2020 , 398, 125602	14.7	43
272	In situ atomic-scale engineering of the chemistry and structure of the grain boundaries region of Li ₃ xLa _{2/3-x} TiO ₃ . <i>Scripta Materialia</i> , 2020 , 185, 134-139	5.6	7
271	Direct evidence of 2D/1D heterojunction enhancement on photocatalytic activity through assembling MoS ₂ nanosheets onto super-long TiO ₂ nanofibers. <i>Applied Surface Science</i> , 2020 , 504, 144367	6.7	60
270	Nano-porous hollow Li _{0.5} La _{0.5} TiO ₃ spheres and electronic structure modulation for ultra-fast H ₂ S detection. <i>Journal of Materials Chemistry A</i> , 2020 , 8, 2376-2386	13	25
269	High-quality rGO/MoS ₂ composite via a facile Prereduction-microwave strategy for enhanced lithium and sodium storage. <i>Journal of Alloys and Compounds</i> , 2020 , 821, 153207	5.7	14
268	Hybrid Multipixel Array X-Ray Detectors for Real-Time Direct Detection of Hard X-Rays. <i>IEEE Transactions on Nuclear Science</i> , 2020 , 67, 2238-2245	1.7	3
267	Ti ₃ C ₂ 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> , 2020 , 8, 25255-25267	13	36
266	Heater-Free and Substrate-Independent Growth of Vertically Standing Graphene Using A High-Flux Plasma-Enhanced Chemical Vapor Deposition. <i>Advanced Materials Interfaces</i> , 2020 , 7, 2000854	4.6	4
265	Sputtered Ga-Doped SnO Electron Transport Layer for Large-Area All-Inorganic Perovskite Solar Cells. <i>ACS Applied Materials & Interfaces</i> , 2020 , 12, 54904-54915	9.5	11
264	Mechanistic investigations of N-doped graphene/2H(1T)-MoS ₂ for Li/K-ions batteries. <i>Nano Energy</i> , 2020 , 78, 105352	17.1	9
263	Reduced bilateral recombination by functional molecular interface engineering for efficient inverted perovskite solar cells. <i>Nano Energy</i> , 2020 , 78, 105249	17.1	27
262	Graded Channel Junctionless InGaZnO Thin-Film Transistors with Both High Transporting Properties and Good Bias Stress Stability. <i>ACS Applied Materials & Interfaces</i> , 2020 , 12, 43950-43957	9.5	1
261	Nitrogen-doped vertical graphene nanosheets by high-flux plasma enhanced chemical vapor deposition as efficient oxygen reduction catalysts for Zn-air batteries. <i>Journal of Materials Chemistry A</i> , 2020 , 8, 23248-23256	13	11
260	Direct Growth of Vertically Aligned Carbon Nanotubes onto Transparent Conductive Oxide Glass for Enhanced Charge Extraction in Perovskite Solar Cells. <i>Advanced Materials Interfaces</i> , 2020 , 7, 2001121	4.6	7
259	Chemical diversity of iron species and structure evolution during the oxidation of C14 Laves phase Zr(Fe,Nb) ₂ in subcritical environment. <i>Corrosion Science</i> , 2020 , 162, 108218	6.8	13

258	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	12	20
257	Integrated structural design of polyaniline-modified nitrogen-doped hierarchical porous carbon nanofibers as binder-free electrodes toward all-solid-state flexible supercapacitors. <i>Applied Surface Science</i> , 2020 , 501, 144001	6.7	14
256	Nanoscale hybrid multidimensional perovskites with alternating cations for high performance photovoltaic. <i>Nano Energy</i> , 2019 , 65, 104050	17.1	22
255	Theoretical formulation of Na ₃ AO ₄ X (A = S/Se, X = F/Cl) as high-performance solid electrolytes for all-solid-state sodium batteries. <i>Journal of Materials Chemistry A</i> , 2019 , 7, 21985-21996	13	14
254	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 ₆ PA ₅ Cl halide-chalcogenides. <i>Journal of Materials Chemistry A</i> , 2019 , 7, 5239-5247	13	21
253	Molecular Beam Epitaxy Scalable Growth of Wafer-Scale Continuous Semiconducting Monolayer MoTe on Inert Amorphous Dielectrics. <i>Advanced Materials</i> , 2019 , 31, e1901578	24	37
252	Multidimension-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	15.6	28
251	Synergistic effect of cation ordered structure and grain boundary engineering on long-term cycling of Li _{0.35} La _{0.55} TiO ₃ -based solid batteries. <i>Journal of the European Ceramic Society</i> , 2019 , 39, 3332-3337 ⁶	6	22
250	Numerical investigation of copper oxide-based heterojunction solar cells. <i>Journal Physics D: Applied Physics</i> , 2019 , 52, 275105	3	6
249	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	6.8	27
248	First principles study for band engineering of KNbO ₃ with 3d transition metal substitution.. <i>RSC Advances</i> , 2019 , 9, 7551-7559	3.7	13
247	Simultaneously boost diffusion length and stability of perovskite for high performance solar cells. <i>Nano Energy</i> , 2019 , 59, 721-729	17.1	21
246	Theoretical tuning of Ruddlesden-Popper type anti-perovskite phases as superb ion conductors and cathodes for solid sodium ion batteries. <i>Journal of Materials Chemistry A</i> , 2019 , 7, 10483-10493	13	19
245	Large Scale Synthesis of Nanopyramidal-Like VO ₂ Films by an Oxygen-Assisted Etching Growth Method with Significantly Enhanced Field Emission Properties. <i>Nanomaterials</i> , 2019 , 9,	5.4	3
244	Surficial Structure Retention Mechanism for LiNiCoAlO in a Full Gradient Cathode. <i>ACS Applied Materials & Interfaces</i> , 2019 , 11, 31991-31996	9.5	22
243	A designer fast Li-ion conductor Li _{6.25} PS _{5.25} Cl _{0.75} and its contribution to the polyethylene oxide based electrolyte. <i>Applied Surface Science</i> , 2019 , 493, 1326-1333	6.7	17
242	Improved hydrogen sensing of (004) oriented anatase TiO ₂ thin films through post annealing. <i>International Journal of Hydrogen Energy</i> , 2019 , 44, 20606-20615	6.7	6
241	Lithium Ion Conductivity in Double Antiperovskite Li _{6.5} OS _{1.5} I _{1.5} : Alloying and Boundary Effects. <i>ACS Applied Energy Materials</i> , 2019 , 2, 6288-6294	6.1	25

240	Hierarchical Porous Materials: Multidimension-Controllable Synthesis of Ant Nest-Structural Electrode Materials with Unique 3D Hierarchical Porous Features toward Electrochemical Applications (Adv. Funct. Mater. 29/2019). <i>Advanced Functional Materials</i> , 2019 , 29, 1970196	15.6	
239	First Principle Material Genome Approach for All Solid-State Batteries. <i>Energy and Environmental Materials</i> , 2019 , 2, 234-250	13	36
238	One-dimensional Z-scheme TiO ₂ /WO ₃ composite nanofibres for enhanced photocatalytic activity of hydrogen production. <i>International Journal of Nanomanufacturing</i> , 2019 , 15, 227	0.7	2
237	P2-type Na ₂ /3Ni ₁ /3Mn ₂ /3O ₂ Cathode Material with Excellent Rate and Cycling Performance for Sodium-Ion Batteries. <i>Journal of the Electrochemical Society</i> , 2019 , 166, A3980-A3986	3.9	14
236	Size effect on the electrochemical reaction path and performance of nano size phosphorus rich skutterudite nickel phosphide. <i>Journal of Alloys and Compounds</i> , 2019 , 781, 1059-1068	5.7	9
235	. <i>IEEE Journal of Photovoltaics</i> , 2019 , 9, 194-199	3.7	10
234	High-efficiency perovskite solar cells based on self-assembly n-doped fullerene derivative with excellent thermal stability. <i>Journal of Power Sources</i> , 2019 , 413, 459-466	8.9	19
233	Inkjet manipulated homogeneous large size perovskite grains for efficient and large-area perovskite solar cells. <i>Nano Energy</i> , 2018 , 46, 203-211	17.1	124
232	One-Step Inkjet Printed Perovskite in Air for Efficient Light Harvesting. <i>Solar Rrl</i> , 2018 , 2, 1700217	7.1	68
231	Enhancing efficiency of planar structure perovskite solar cells using Sn-doped TiO ₂ as electron transport layer at low temperature. <i>Electrochimica Acta</i> , 2018 , 261, 227-235	6.7	55
230	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	13	78
229	Molecular-dynamics simulations of binary Pd-Si metal alloys: Glass formation, crystallisation and cluster properties. <i>Journal of Non-Crystalline Solids</i> , 2018 , 487, 72-86	3.9	12
228	High-capacity cathodes for magnesium lithium chlorine tri-ion batteries through chloride intercalation in layered MoS ₂ : a computational study. <i>Journal of Materials Chemistry A</i> , 2018 , 6, 6830-6839	13	26
227	Constructing 2D layered MoS ₂ nanosheets-modified Z-scheme TiO ₂ /WO ₃ nanofibers ternary nanojunction with enhanced photocatalytic activity. <i>Applied Surface Science</i> , 2018 , 430, 466-474	6.7	78
226	Enhanced performances of dye-sensitized solar cells based on Au-TiO ₂ and Ag-TiO ₂ plasmonic hybrid nanocomposites. <i>Applied Surface Science</i> , 2018 , 430, 415-423	6.7	55
225	Dominant growth of higher manganese silicide film on Si substrate by introducing a Si oxide capping layer. <i>Journal of Alloys and Compounds</i> , 2018 , 740, 541-544	5.7	10
224	Synergistic Cooperation of Rutile TiO {002}, {101}, and {110} Facets for Hydrogen Sensing. <i>ACS Applied Materials & Interfaces</i> , 2018 , 10, 28199-28209	9.5	22
223	RGO-functionalized polymer nanofibrous membrane with exceptional surface activity and ultra-low airflow resistance for PM _{2.5} filtration. <i>Environmental Science: Nano</i> , 2018 , 5, 1813-1820	7.1	37

222	Enhanced Photoelectrochemical Performances in Flexible Mesoscopic Solar Cells: An Effective Light-Scattering Material. <i>ChemPhotoChem</i> , 2018 , 2, 986-993	3-3	4
221	Strong interplay between dopant and SnO ₂ in amorphous transparent (Sn, Nb)O ₂ anode with high conductivity in electrochemical cycling. <i>Journal of Alloys and Compounds</i> , 2018 , 735, 2401-2409	5-7	28
220	From anti-perovskite to double anti-perovskite: tuning lattice chemistry to achieve super-fast Li ⁺ transport in cubic solid lithium halogen halocogenides. <i>Journal of Materials Chemistry A</i> , 2018 , 6, 73-83	13	49
219	Suppression on allotropic transformation of Sn planar anode with enhanced electrochemical performance. <i>Applied Surface Science</i> , 2018 , 435, 1150-1158	6-7	17
218	Ruddlesden-Popper Perovskite for Stable Solar Cells. <i>Energy and Environmental Materials</i> , 2018 , 1, 221-231	31	54
217	Phase Pure 2D Perovskite for High-Performance 2D-3D Heterostructured Perovskite Solar Cells. <i>Advanced Materials</i> , 2018 , 30, e1805323	24	161
216	Fundamental Basis for Distinctive Sensing of H ₂ in Humid Environment. <i>Energy and Environmental Materials</i> , 2018 , 1, 174-178	13	20
215	Theoretical design of double anti-perovskite Na ₆ SOI ₂ as a super-fast ion conductor for solid Na ⁺ ion batteries. <i>Journal of Materials Chemistry A</i> , 2018 , 6, 19843-19852	13	23
214	Ultrafast solid-state lithium ion conductor through alloying induced lattice softening of Li ₆ PS ₅ Cl. <i>Journal of Materials Chemistry A</i> , 2018 , 6, 19231-19240	13	28
213	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> , 2018 , 6, 22555-22565	13	39
212	Stable high-performance perovskite solar cells based on inorganic electron transporting bi-layers. <i>Nanotechnology</i> , 2018 , 29, 385401	3-4	9
211	Reactive close field unbalance magnetron sputter deposition of titanium dioxides for potential photovoltaic applications. <i>Surface Engineering</i> , 2017 , 33, 642-647	2-6	2
210	Chemical bath deposited rutile TiO ₂ compact layer toward efficient planar heterojunction perovskite solar cells. <i>Applied Surface Science</i> , 2017 , 391, 337-344	6-7	62
209	The formation and stacking faults of Fe and Cr containing Laves phase in Zircaloy-4 alloy. <i>Materials Letters</i> , 2017 , 191, 203-205	3-3	22
208	Covalently Connecting Crystal Grains with Polyvinylammonium Carbochain Backbone To Suppress Grain Boundaries for Long-Term Stable Perovskite Solar Cells. <i>ACS Applied Materials & Interfaces</i> , 2017 , 9, 6064-6071	9-5	29
207	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	5-7	41
206	Plasmon enhancement on photocatalytic hydrogen production over the Z-scheme photosynthetic heterojunction system. <i>Applied Catalysis B: Environmental</i> , 2017 , 210, 297-305	21-8	85
205	Fabrication and photovoltaic performance of niobium doped TiO ₂ hierarchical microspheres with exposed {001} facets and high specific surface area. <i>Applied Surface Science</i> , 2017 , 410, 241-248	6-7	34

204	Tuning the electrical performance of metal oxide thin-film transistors via dielectric interface trap passivation and graded channel modulation doping. <i>Journal of Materials Chemistry C</i> , 2017 , 5, 1206-1215	7.1	9
203	Theoretical design of solid electrolytes with superb ionic conductivity: alloying effect on Li ⁺ transportation in cubic Li ₆ PA ₅ X chalcogenides. <i>Journal of Materials Chemistry A</i> , 2017 , 5, 21846-21857	13	55
202	Simulation of planar Si/Mg ₂ Si/Si p-i-n heterojunction solar cells for high efficiency. <i>Solar Energy</i> , 2017 , 158, 654-662	6.8	25
201	Pinecone biomass-derived hard carbon anodes for high-performance sodium-ion batteries. <i>RSC Advances</i> , 2017 , 7, 41504-41511	3.7	78
200	In situ coupling of Ti ₂ O with rutile TiO ₂ as a core-shell structure and its photocatalysis performance. <i>RSC Advances</i> , 2017 , 7, 54662-54667	3.7	12
199	Mild solution-processed metal-doped TiO ₂ compact layers for hysteresis-less and performance-enhanced perovskite solar cells. <i>Journal of Power Sources</i> , 2017 , 372, 235-244	8.9	47
198	One-dimensional Z-scheme TiO ₂ /WO ₃ /Pt heterostructures for enhanced hydrogen generation. <i>Applied Surface Science</i> , 2017 , 391, 211-217	6.7	86
197	Direct evidence of multichannel-improved charge-carrier mechanism for enhanced photocatalytic H ₂ evolution. <i>Scientific Reports</i> , 2017 , 7, 16116	4.9	20
196	Formation and fine-structures of nano-precipitates in ZIRLO. <i>Journal of Alloys and Compounds</i> , 2016 , 687, 451-457	5.7	14
195	Construction of solid-state Z-scheme carbon-modified TiO ₂ /WO ₃ nanofibers with enhanced photocatalytic hydrogen production. <i>Journal of Power Sources</i> , 2016 , 328, 28-36	8.9	104
194	Significant Influences of Elaborately Modulating Electron Donors on Light Absorption and Multichannel Charge-Transfer Dynamics for 4-(Benzo[c][1,2,5]thiadiazol-4-ylethynyl)benzoic Acid Dyes. <i>ACS Applied Materials & Interfaces</i> , 2016 , 8, 18292-300	9.5	18
193	Polyethyleneimine High-Energy Hydrophilic Surface Interfacial Treatment toward Efficient and Stable Perovskite Solar Cells. <i>ACS Applied Materials & Interfaces</i> , 2016 , 8, 32574-32580	9.5	41
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