Qi Chen

List of Publications by Year in Descending Order

245 papers	25,295 citations	61 h-index	158 g-index
269 ext. papers	28,878 ext. citations	10.9 avg, IF	7.08 L-index

#	Paper	IF	Citations
245	Bulky ammonium iodide and in-situ formed 2D Ruddlesden-Popper layer enhances the stability and efficiency of perovskite solar cells.. *Journal of Colloid and Interface Science*, **2022**, 614, 247-255	9.3	1
244	Interface-enhanced thermoelectric output power in CrN/SrTiO3 heterostructure. *Journal of Energy Chemistry*, **2022**, 64, 16-22	12	1
243	Exciton Self-Trapping for White Emission in 100-Oriented Two-Dimensional Perovskites via Halogen Substitution. *ACS Energy Letters*, **2022**, 7, 453-460	20.1	9
242	Strain Modulation for Light-Stable n-i-p Perovskite/Silicon Tandem Solar Cells.. *Advanced Materials*, **2022**, e2201315	24	5
241	Avoiding Structural Collapse to Reduce Lead Leakage in Perovskite Photovoltaics.. *Angewandte Chemie - International Edition*, **2022**,	16.4	5
240	Extracellular vesicle-packaged mitochondrial disturbing miRNA exacerbates cardiac injury during acute myocardial infarction.. *Clinical and Translational Medicine*, **2022**, 12, e779	5.7	0
239	Ultralow contents of AgNbO3 fibers induced high energy storage density in ferroelectric polymer nanocomposites. *Applied Physics Letters*, **2022**, 120, 223904	3.4	2
238	Surface Reconstruction and In Situ Formation of 2D Layer for Efficient and Stable 2D/3D Perovskite Solar Cells.. *Small Methods*, **2021**, 5, e2101000	12.8	6
237	Rational Design and Facile Synthesis of Dual-State Emission Fluorophores: Expanding Functionality for the Sensitive Detection of Nitroaromatic Compounds. *Chemistry - A European Journal*, **2021**,	4.8	5
236	Interface charge accumulation dynamics in 3D and quasi-2D perovskite solar cells. *Journal Physics D: Applied Physics*, **2021**, 54, 014004	3	1
235	Tailoring molecular termination for thermally stable perovskite solar cells. *Journal of Semiconductors*, **2021**, 42, 112201	2.3	1
234	Highly efficient copper halide scintillators for high-performance and dynamic X-ray imaging. *Nanoscale*, **2021**,	7.7	9
233	Neural basis responsible for episodic future thinking effects on procrastination: The interaction between the cognitive control pathway and emotional processing pathway. *Cortex*, **2021**, 145, 250-263	3.8	0
232	Heterogeneously integrated, superconducting silicon-photonic platform for measurement-device-independent quantum key distribution. *Advanced Photonics*, **2021**, 3,	8.1	5
231	Operando surface science methodology reveals surface effect in charge storage electrodes. *National Science Review*, **2021**, 8, nwaa289	10.8	6
230	White Matter Alterations of the Goal-Directed System in Patients With Obsessive-Compulsive Disorder and Their Unaffected First-Degree Relatives. *Biological Psychiatry: Cognitive Neuroscience and Neuroimaging*, **2021**, 6, 992-1001	3.4	1
229	Rh(III)-Catalyzed Chemodivergent Coupling of -Phenoxyacetamides and Alkylidenecyclopropanes via C-H Activation. *Organic Letters*, **2021**, 23, 2927-2932	6.2	5

228	Anions-Exchange-Induced Efficient Carrier Transport at CsPbBrxCl3-x/TiO2 Interface for Photocatalytic Activation of C(sp3)H bond in Toluene Oxidation. *ChemCatChem*, **2021**, 13, 2592-2598	5.2	5
227	A new contrast-to-noise ratio for image quality characterization of a coded-aperture camera. *Applied Radiation and Isotopes*, **2021**, 170, 109592	1.7	2
226	Optimized MoP with Pseudo-Single-Atom Tungsten for Efficient Hydrogen Electrocatalysis. *Chemistry of Materials*, **2021**, 33, 3639-3649	9.6	4
225	Mobile Media Promotes Orientation of 2D/3D Hybrid Lead Halide Perovskite for Efficient Solar Cells. *ACS Nano*, **2021**, 15, 8350-8362	16.7	5
224	Metabolomic profiling of single enlarged lysosomes. *Nature Methods*, **2021**, 18, 788-798	21.6	9
223	Crown ether-induced supramolecular passivation and two-dimensional crystal interlayer formation in perovskite photovoltaics. *Cell Reports Physical Science*, **2021**, 2, 100450	6.1	2
222	Long-Lived Triplet Excited-State Bichromophoric Iridium Photocatalysts for Controlled Photo-Mediated Atom-Transfer Radical Polymerization. *Macromolecules*, **2021**, 54, 6117-6126	5.5	2
221	Abnormal brain functional network dynamics in obsessive-compulsive disorder patients and their unaffected first-degree relatives. *Human Brain Mapping*, **2021**, 42, 4387-4398	5.9	2
220	Solvent Free Laminated Fabrication of Lead Halide Perovskites for Sensitive and Stable X-ray Detection. *Journal of Physical Chemistry Letters*, **2021**, 12, 6961-6966	6.4	9
219	Liquid medium annealing for fabricating durable perovskite solar cells with improved reproducibility. *Science*, **2021**, 373, 561-567	33.3	60
218	Insights into Large-Scale Fabrication Methods in Perovskite Photovoltaics. *Advanced Energy and Sustainability Research*, **2021**, 2, 2000046	1.6	9
217	Stability evolution of ultrafine Ag nanoparticles prepared by laser ablation in liquids. *Journal of Colloid and Interface Science*, **2021**, 585, 444-451	9.3	3
216	Zinc Stannate Nanostructures for Energy Conversion *Chinese Journal of Chemistry*, **2021**, 39, 367-380	4.9	2
215	Improving the Photomultiplication in Organic Photodetectors with Narrowband Response by Interfacial Engineering. *Acta Chimica Sinica*, **2021**, 79, 1030	3.3	1
214	Thermal Management Enables More Efficient and Stable Perovskite Solar Cells. *ACS Energy Letters*, **2021**, 6, 3029-3036	20.1	5
213	Synergistic Effects of Eu-MOF on Perovskite Solar Cells with Improved Stability. *Advanced Materials*, **2021**, 33, e2102947	24	29
212	Crystal Chemical Insights on Lead Iodide Perovskites Doping from Revised Effective Radii of Metal Ions **2021**, 3, 1377-1384		2
211	The neural mechanism of spatial-positional association in working memory: A fMRI study. *Brain and Cognition*, **2021**, 152, 105756	2.7	2

210	Promoting Energy Transfer via Manipulation of Crystallization Kinetics of Quasi-2D Perovskites for Efficient Green Light-Emitting Diodes. *Advanced Materials*, **2021**, 33, e2102246	24	25
209	Visualization of Interfacial Band Bending in Photomultiplying Organic Photodetectors. *Nano Letters*, **2021**, 21, 8474-8480	11.5	5
208	Quantitative amplitude-modulation scanning Kelvin probe microscopy via the second eigenmode excitation. *Ultramicroscopy*, **2021**, 230, 113399	3.1	0
207	-alkylation briefly constructs tunable multifunctional sensor materials: Multianalyte detection and reversible adsorption. *IScience*, **2021**, 24, 103126	6.1	2
206	Modification of FA0.85MA0.15Pb(I0.85Br0.15)3 Films by NH2-POSS. *Crystals*, **2021**, 11, 1544	2.3	1
205	Universal and versatile morphology engineering via hot fluorous solvent soaking for organic bulk heterojunction. *Nature Communications*, **2020**, 11, 5585	17.4	15
204	The Role of Surface Termination in Halide Perovskites for Efficient Photocatalytic Synthesis. *Angewandte Chemie - International Edition*, **2020**, 59, 12931-12937	16.4	19
203	Optical and dielectric analysis of ZnO nanorods doped polymer dispersed liquid crystal and ethanol gas sensing investigation. *Liquid Crystals*, **2020**, 47, 2247-2256	2.3	3
202	The Role of Surface Termination in Halide Perovskites for Efficient Photocatalytic Synthesis. *Angewandte Chemie*, **2020**, 132, 13031-13037	3.6	1
201	Carrier transport composites with suppressed glass-transition for stable planar perovskite solar cells. *Journal of Materials Chemistry A*, **2020**, 8, 14106-14113	13	13
200	Fabricating Surface-Functionalized CsPbBr/CsPbBr Nanosheets for Visible-Light Photocatalytic Oxidation of Styrene. *Frontiers in Chemistry*, **2020**, 8, 130	5	5
199	Recent Advances in Improving Phase Stability of Perovskite Solar Cells. *Small Methods*, **2020**, 4, 1900877	12.8	35
198	Compositional Engineering for Compact Perovskite Absorber Fabrication Toward Efficient Photovoltaics. *IEEE Journal of Photovoltaics*, **2020**, 10, 765-770	3.7	1
197	Ultra-high open-circuit voltage of tin perovskite solar cells via an electron transporting layer design. *Nature Communications*, **2020**, 11, 1245	17.4	243
196	The effect of trait anxiety on risk-taking: Functional coupling between right hippocampus and left insula. *Psychophysiology*, **2020**, 57, e13629	4.1	4
195	Robust Fabrication of Hybrid Lead-Free Perovskite Pellets for Stable X-ray Detectors with Low Detection Limit. *Advanced Materials*, **2020**, 32, e2001981	24	74
194	From Distortion to Disconnection: Linear Alkyl Diammonium Cations Tune Structure and Photoluminescence of Lead Bromide Perovskites. *Advanced Optical Materials*, **2020**, 8, 1902051	8.1	14
193	New Features of Photochemical Decomposition of Hybrid Lead Halide Perovskites by Laser Irradiation. *ACS Applied Materials & Interfaces*, **2020**, 12, 12755-12762	9.5	8

192	Cation Diffusion Guides Hybrid Halide Perovskite Crystallization during the Gel Stage. *Angewandte Chemie*, **2020**, 132, 6035-6043	3.6	2
191	1000 h Operational Lifetime Perovskite Solar Cells by Ambient Melting Encapsulation. *Advanced Energy Materials*, **2020**, 10, 1902472	21.8	60
190	Cation Diffusion Guides Hybrid Halide Perovskite Crystallization during the Gel Stage. *Angewandte Chemie - International Edition*, **2020**, 59, 5979-5987	16.4	19
189	Promoting Thermodynamic and Kinetic Stabilities of FA-based Perovskite by an in Situ Bilayer Structure. *Nano Letters*, **2020**, 20, 3864-3871	11.5	25
188	Understanding the Defect Properties of Quasi-2D Halide Perovskites for Photovoltaic Applications. *Journal of Physical Chemistry Letters*, **2020**, 11, 3521-3528	6.4	29
187	Direct observation of contact potential distributions of wafer-bonded p-GaAs/n-GaN and p-GaAs/n-Si by scanning Kelvin probe force microscopy. *Japanese Journal of Applied Physics*, **2020**, 59, 115502	1.4	2
186	The Spacer Cations Interplay for Efficient and Stable Layered 2D Perovskite Solar Cells. *Advanced Energy Materials*, **2020**, 10, 1901566	21.8	57
185	Probing Phase Distribution in 2D Perovskites for Efficient Device Design. *ACS Applied Materials & Interfaces*, **2020**, 12, 3127-3133	9.5	21
184	Tungsten as "Adhesive" in Pt2CuW0.25 Ternary Alloy for Highly Durable Oxygen Reduction Electrocatalysis. *Advanced Functional Materials*, **2020**, 30, 1908230	15.6	32
183	Circulating Exosomes Control CD4 T Cell Immunometabolic Functions via the Transfer of miR-142 as a Novel Mediator in Myocarditis. *Molecular Therapy*, **2020**, 28, 2605-2620	11.7	4
182	An in situ cross-linked 1D/3D perovskite heterostructure improves the stability of hybrid perovskite solar cells for over 3000 h operation. *Energy and Environmental Science*, **2020**, 13, 4344-4352	35.4	68
181	Surface Sulfuration of NiO Boosts the Performance of Inverted Perovskite Solar Cells. *Solar Rrl*, **2020**, 4, 2000270	7.1	13
180	9,9-Dimethyl Dihydroacridine-Based Organic Photocatalyst for Atom Transfer Radical Polymerization from Modifying "Unstable" Electron Donor. *Macromolecules*, **2020**, 53, 7053-7062	5.5	9
179	Heterojunction-Type Photocatalytic System Based on Inorganic Halide Perovskite CsPbBr3" *Chinese Journal of Chemistry*, **2020**, 38, 1718-1722	4.9	9
178	Circular RNA circSnx5 Controls Immunogenicity of Dendritic Cells through the miR-544/SOCS1 Axis and PU.1 Activity Regulation. *Molecular Therapy*, **2020**, 28, 2503-2518	11.7	17
177	An Efficient and Stable Perovskite Solar Cell with Suppressed Defects by Employing Dithizone as a Lead Indicator. *Angewandte Chemie*, **2020**, 132, 21593-21597	3.6	0
176	An Efficient and Stable Perovskite Solar Cell with Suppressed Defects by Employing Dithizone as a Lead Indicator. *Angewandte Chemie - International Edition*, **2020**, 59, 21409-21413	16.4	16
175	Momentary lapses of attention in multisensory environment. *Cortex*, **2020**, 131, 195-209	3.8	0

174	Toward Greener Solution Processing of Perovskite Solar Cells. *ACS Sustainable Chemistry and Engineering*, **2020**, 8, 13126-13138	8.3	22
173	Formation of nanodiamond by pulsed discharge of carbon fiber wires. *Applied Physics Letters*, **2020**, 117, 081902	3.4	2
172	Interfacial Dipole in Organic and Perovskite Solar Cells. *Journal of the American Chemical Society*, **2020**, 142, 18281-18292	16.4	70
171	Efficient X-ray Attenuation Lead-Free AgBiI Halide Rudorffite Alternative for Sensitive and Stable X-ray Detection. *Journal of Physical Chemistry Letters*, **2020**, 11, 7939-7945	6.4	16
170	Using Stretchable PPy@PVA Composites as a High-Sensitivity Strain Sensor To Monitor Minute Motion. *ACS Applied Materials & Interfaces*, **2020**, 12, 45373-45382	9.5	16
169	Recent Progress in Developing Monolithic Perovskite/Si Tandem Solar Cells. *Frontiers in Chemistry*, **2020**, 8, 603375	5	9
168	Energy-Level Modulation in Diboron-Modified SnO2 for High-Efficiency Perovskite Solar Cells. *Solar Rrl*, **2020**, 4, 1900217	7.1	21
167	Stacking Effects on Electron-Phonon Coupling in Layered Hybrid Perovskites Microstrain Manipulation. *ACS Nano*, **2020**, 14, 5806-5817	16.7	24
166	Recent Progress in Designing Halide-Perovskite-Based System for the Photocatalytic Applications. *Frontiers in Chemistry*, **2020**, 8, 613174	5	3
165	Human Hyperekplexic Mutations in Glycine Receptors Disinhibit the Brainstem by Hijacking GABA Receptors. *IScience*, **2019**, 19, 634-646	6.1	12
164	Protosappanin A protects against experimental autoimmune myocarditis, and induces metabolically reprogrammed tolerogenic DCs. *Pharmacological Research*, **2019**, 146, 104269	10.2	2
163	Cation and anion immobilization through chemical bonding enhancement with fluorides for stable halide perovskite solar cells. *Nature Energy*, **2019**, 4, 408-415	62.3	511
162	A Thermodynamically Favored Crystal Orientation in Mixed Formamidinium/Methylammonium Perovskite for Efficient Solar Cells. *Advanced Materials*, **2019**, 31, e1900390	24	62
161	Bismuth ferrite: an abnormal perovskite with electrochemical extraction of ions from A site. *Journal of Materials Chemistry A*, **2019**, 7, 12176-12190	13	14
160	Impacts of alkaline on the defects property and crystallization kinetics in perovskite solar cells. *Nature Communications*, **2019**, 10, 1112	17.4	124
159	Hollow Loofah-Like N, O-Co-Doped Carbon Tube for Electrocatalysis of Oxygen Reduction. *Advanced Functional Materials*, **2019**, 29, 1900015	15.6	44
158	Building a Cocrystal by Using Supramolecular Synthons for Pressure-Accelerated Heteromolecular Azide-Alkyne Cycloaddition. *Chemistry - A European Journal*, **2019**, 25, 7142-7148	4.8	9
157	Processing Halide Perovskite Materials with Semiconductor Technology. *Advanced Materials Technologies*, **2019**, 4, 1800729	6.8	19

156	30% Enhancement of Efficiency in Layered 2D Perovskites Absorbers by Employing Homo-Tandem Structures. *Solar Rrl*, **2019**, 3, 1900083	7.1	6
155	Experimental Demonstration of Superconducting Series Nanowire Photon-Number-Resolving Detector at 660 nm Wavelength. *IEEE Photonics Journal*, **2019**, 11, 1-8	1.8	
154	Efficient and visual monitoring of cerium (III) ions by green-fluorescent carbon dots and paper-based sensing. *Spectrochimica Acta - Part A: Molecular and Biomolecular Spectroscopy*, **2019**, 206, 240-245	4.4	25
153	Metabolic reprogramming orchestrates CD4 T-cell immunological status and restores cardiac dysfunction in autoimmune induced-dilated cardiomyopathy mice. *Journal of Molecular and Cellular Cardiology*, **2019**, 135, 134-148	5.8	8
152	In-situ Interfacial Passivation for Stable Perovskite Solar Cells. *Frontiers in Materials*, **2019**, 6,	4	6
151	Pyrrolidinium containing perovskites with thermal stability and water resistance for photovoltaics. *Journal of Materials Chemistry C*, **2019**, 7, 11104-11108	7.1	12
150	Boosting Organic–Metal Oxide Heterojunction via Conjugated Small Molecules for Efficient and Stable Nonfullerene Polymer Solar Cells. *Advanced Energy Materials*, **2019**, 9, 1900887	21.8	30
149	Effects of CsPbBr3 nanocrystals concentration on electronic structure and surface composition of perovskite films. *Organic Electronics*, **2019**, 73, 327-331	3.5	16
148	Interfacial Residual Stress Relaxation in Perovskite Solar Cells with Improved Stability. *Advanced Materials*, **2019**, 31, e1904408	24	126
147	Efficiency above 12% for 1 cm Flexible Organic Solar Cells with Ag/Cu Grid Transparent Conducting Electrode. *Advanced Science*, **2019**, 6, 1901490	13.6	34
146	Locally collective hydrogen bonding isolates lead octahedra for white emission improvement. *Nature Communications*, **2019**, 10, 5190	17.4	67
145	Temporal and spatial pinhole constraints in small-molecule hole transport layers for stable and efficient perovskite photovoltaics. *Journal of Materials Chemistry A*, **2019**, 7, 7338-7346	13	28
144	Strain engineering in perovskite solar cells and its impacts on carrier dynamics. *Nature Communications*, **2019**, 10, 815	17.4	286
143	Introducing fluorene into organic hole transport materials to improve mobility and photovoltage for perovskite solar cells. *Chemical Communications*, **2019**, 55, 13406-13409	5.8	23
142	Improving the efficiency of silicon solar cells using in situ fabricated perovskite quantum dots as luminescence downshifting materials. *Nanophotonics*, **2019**, 9, 93-100	6.3	14
141	Reconfiguration of interfacial energy band structure for high-performance inverted structure perovskite solar cells. *Nature Communications*, **2019**, 10, 4593	17.4	130
140	Synthesis of N,S-Doped Carbon Quantum Dots for Use in Organic Solar Cells as the ZnO Modifier To Eliminate the Light-Soaking Effect. *ACS Applied Materials & Interfaces*, **2019**, 11, 2243-2253	9.5	57
139	3D nanomaterial silica aerogel via diffusion of chiral compound driven broadband reflection in chiral nematic liquid crystals. *Liquid Crystals*, **2019**, 46, 952-962	2.3	8

138	A Eu-Eu ion redox shuttle imparts operational durability to Pb-I perovskite solar cells. *Science*, **2019**, 363, 265-270	33.3	533
137	Tungsten-Doping-Induced Surface Reconstruction of Porous Ternary Pt-Based Alloy Electrocatalyst for Oxygen Reduction. *Advanced Functional Materials*, **2019**, 29, 1807070	15.6	42
136	A Strategy toward New Low-Dimensional Hybrid Halide Perovskites with Anionic Spacers. *Small*, **2019**, 15, e1804152	11	3
135	Stabilizing RbPbBr Perovskite Nanocrystals through Cs Substitution. *Chemistry - A European Journal* , **2019**, 25, 2597-2603	4.8	16
134	Naphtho[1,2-b:4,3-b?]dithiophene-based hole transporting materials for high-performance perovskite solar cells: molecular engineering and opto-electronic properties. *Journal of Materials Chemistry A*, **2018**, 6, 10057-10063	13	26
133	Extremely low trap-state energy level perovskite solar cells passivated using NH2-POSS with improved efficiency and stability. *Journal of Materials Chemistry A*, **2018**, 6, 6806-6814	13	34
132	Ligand engineering on CdTe quantum dots in perovskite solar cells for suppressed hysteresis. *Nano Energy*, **2018**, 46, 45-53	17.1	38
131	Synergistically Enhanced Oxygen Reduction Electrocatalysis by Subsurface Atoms in Ternary PdCuNi Alloy Catalysts. *Advanced Functional Materials*, **2018**, 28, 1707219	15.6	39
130	New Bichromophoric Triplet Photosensitizer Designs and Their Application in Triplet□Triplet Annihilation Upconversion. *Advanced Optical Materials*, **2018**, 6, 1700981	8.1	27
129	Unraveling the Growth of Hierarchical Quasi-2D/3D Perovskite and Carrier Dynamics. *Journal of Physical Chemistry Letters*, **2018**, 9, 1124-1132	6.4	41
128	Recent advances toward practical use of halide perovskite nanocrystals. *Journal of Materials Chemistry A*, **2018**, 6, 21729-21746	13	62
127	Improved photomultiplication in inverted-structure organic photodetectors via interfacial engineering. *Applied Physics Letters*, **2018**, 113, 043303	3.4	15
126	Energy Transfer Dynamics in Triplet-Triplet Annihilation Upconversion Using a Bichromophoric Heavy-Atom-Free Sensitizer. *Journal of Physical Chemistry A*, **2018**, 122, 6673-6682	2.8	27
125	Effects of Iodine Doping on Carrier Behavior at the Interface of Perovskite Crystals: Efficiency and Stability. *Crystals*, **2018**, 8, 185	2.3	6
124	Manipulation of facet orientation in hybrid perovskite polycrystalline films by cation cascade. *Nature Communications*, **2018**, 9, 2793	17.4	127
123	Effect of Waste Paper Fiber on Properties of Cement-based Mortar and Relative Mechanism. *Journal Wuhan University of Technology, Materials Science Edition*, **2018**, 33, 419-426	1	4
122	Enhanced Triplet Sensitizing Ability of an Iridium Complex by Intramolecular Energy-Transfer Mechanism. *Journal of Physical Chemistry A*, **2018**, 122, 6963-6969	2.8	9
121	Functional Scanning Force Microscopy for Energy Nanodevices. *Advanced Materials*, **2018**, 30, e1802490	24	22

120	Grain-Boundary "Patches" by In Situ Conversion to Enhance Perovskite Solar Cells Stability. *Advanced Materials*, **2018**, 30, e1800544	24	170
119	Silane-Capped ZnO Nanoparticles for Use as the Electron Transport Layer in Inverted Organic Solar Cells. *ACS Nano*, **2018**, 12, 5518-5529	16.7	68
118	Exploration of Crystallization Kinetics in Quasi Two-Dimensional Perovskite and High Performance Solar Cells. *Journal of the American Chemical Society*, **2018**, 140, 459-465	16.4	248
117	Heterogeneously supported pseudo-single atom Pt as sustainable hydrosilylation catalyst. *Nano Research*, **2018**, 11, 2544-2552	10	20
116	Congeneric Incorporation of CsPbBr3 Nanocrystals in a Hybrid Perovskite Heterojunction for Photovoltaic Efficiency Enhancement. *ACS Energy Letters*, **2018**, 3, 30-38	20.1	86
115	Low-temperature-processed inorganic perovskite solar cells via solvent engineering with enhanced mass transport. *Journal of Materials Chemistry A*, **2018**, 6, 23602-23609	13	49
114	Interface engineering in solid state Li metal batteries by quasi-2D hybrid perovskites. *Journal of Materials Chemistry A*, **2018**, 6, 20896-20903	13	23
113	Propeller-Shaped, Triarylamine-Rich, and Dopant-Free Hole-Transporting Materials for Efficient n-i-p Perovskite Solar Cells. *ACS Applied Materials & Interfaces*, **2018**, 10, 41592-41598	9.5	19
112	High Proton Selectivity Sulfonated Polyimides Ion Exchange Membranes for Vanadium Flow Batteries. *Polymers*, **2018**, 10,	4.5	9
111	Effect of High Dipole Moment Cation on Layered 2D Organic–Inorganic Halide Perovskite Solar Cells. *Advanced Energy Materials*, **2018**, 9, 1803024	21.8	65
110	Monolithic perovskite/Si tandem solar cells exceeding 22% efficiency via optimizing top cell absorber. *Nano Energy*, **2018**, 53, 798-807	17.1	56
109	A Facile Approach towards Fabrication of Electrospun Nanofibrous Mats based Multicompartment Wound Dressing Fabric. *Macromolecular Research*, **2018**, 26, 1265-1272	1.9	2
108	Two Low-Cost and Efficient Hole-Transporting Materials for n-i-p Type Organic-Inorganic Hybrid Perovskite Solar Cells. *ACS Omega*, **2018**, 3, 10791-10797	3.9	17
107	Understanding the effects of the energy band alignment at the donor/acceptor interface on the open circuit voltage of organic photovoltaic devices. *Chemical Physics Letters*, **2018**, 711, 113-117	2.5	8
106	The Exploration of Carrier Behavior in the Inverted Mixed Perovskite Single-Crystal Solar Cells. *Advanced Materials Interfaces*, **2018**, 5, 1800224	4.6	38
105	Moderate UV Exposure Enhances Learning and Memory by Promoting a Novel Glutamate Biosynthetic Pathway in the Brain. *Cell*, **2018**, 173, 1716-1727.e17	56.2	60
104	Cost Analysis of Perovskite Tandem Photovoltaics. *Joule*, **2018**, 2, 1559-1572	27.8	150
103	Simultaneous performance and stability improvement of perovskite solar cells by a sequential twice anti-solvent deposition process. *Organic Electronics*, **2018**, 59, 358-365	3.5	2

102	Efficient Moisture-Resistant Perovskite Solar Cell With Nanostructure Featuring 3D Amine Motif. *Solar Rrl*, **2018**, 2, 1800069	7.1	8
101	Highly stable QLEDs with improved hole injection via quantum dot structure tailoring. *Nature Communications*, **2018**, 9, 2608	17.4	175
100	Rationally Induced Interfacial Dipole in Planar Heterojunction Perovskite Solar Cells for Reduced JV Hysteresis. *Advanced Energy Materials*, **2018**, 8, 1800568	21.8	19
99	Nickel oxide nanoparticles for efficient hole transport in p-i-n and n-i-p perovskite solar cells. *Journal of Materials Chemistry A*, **2017**, 5, 6597-6605	13	159
98	Bright long-lived luminescence of silicon nanocrystals sensitized by two-photon absorbing antenna. *CheM*, **2017**, 2, 550-560	16.2	17
97	Chemical Reduction of Intrinsic Defects in Thicker Heterojunction Planar Perovskite Solar Cells. *Advanced Materials*, **2017**, 29, 1606774	24	267
96	External load-dependent degradation of P3HT:PC61BM solar cells: behavior, mechanism, and method of suppression. *Journal of Materials Chemistry A*, **2017**, 5, 10010-10020	13	24
95	CsI Pre-Intercalation in the Inorganic Framework for Efficient and Stable FA Cs PbI (Cl) Perovskite Solar Cells. *Small*, **2017**, 13, 1700484	11	88
94	To probe the performance of perovskite memory devices: defects property and hysteresis. *Journal of Materials Chemistry C*, **2017**, 5, 5810-5817	7.1	46
93	The Emergence of the Mixed Perovskites and Their Applications as Solar Cells. *Advanced Energy Materials*, **2017**, 7, 1700491	21.8	103
92	Imaging metal-like monoclinic phase stabilized by surface coordination effect in vanadium dioxide nanobeam. *Nature Communications*, **2017**, 8, 15561	17.4	27
91	The intrinsic properties of FA(1⊠)MAxPbI3 perovskite single crystals. *Journal of Materials Chemistry A*, **2017**, 5, 8537-8544	13	110
90	Ag-Incorporated Organic-Inorganic Perovskite Films and Planar Heterojunction Solar Cells. *Nano Letters*, **2017**, 17, 3231-3237	11.5	127
89	Tailoring the Interfacial Chemical Interaction for High-Efficiency Perovskite Solar Cells. *Nano Letters* , **2017**, 17, 269-275	11.5	223
88	Precise Composition Tailoring of Mixed-Cation Hybrid Perovskites for Efficient Solar Cells by Mixture Design Methods. *ACS Nano*, **2017**, 11, 8804-8813	16.7	44
87	Reduction of intrinsic defects in hybrid perovskite films via precursor purification. *Chemical Communications*, **2017**, 53, 10548-10551	5.8	24
86	A general approach for nanoparticle composite transport materials toward efficient perovskite solar cells. *Chemical Communications*, **2017**, 53, 11028-11031	5.8	2
85	Energy band alignment in operando inverted structure P3HT:PCBM organic solar cells. *Nano Energy*, **2017**, 40, 454-461	17.1	21

84	Photon management for efficient hybrid perovskite solar cells via synergetic localized grating and enhanced fluorescence effect. *Nano Energy*, **2017**, 40, 540-549	17.1	18
83	Contact Engineering: Electrode Materials for Highly Efficient and Stable Perovskite Solar Cells. *Solar Rrl*, **2017**, 1, 1700082	7.1	31
82	Microstructure variations induced by excess PbX or AX within perovskite thin films. *Chemical Communications*, **2017**, 53, 12966-12969	5.8	7
81	Applications of fluorene moiety containing polymers for improved scintillation light yield. *Nuclear Instruments and Methods in Physics Research, Section A: Accelerators, Spectrometers, Detectors and Associated Equipment*, **2017**, 868, 59-65	1.2	3
80	Fabrication of chitosan/PEO nanofiber mats with mica by electrospinning. *Journal of Polymer Engineering*, **2017**, 37, 461-470	1.4	4
79	Circuit-level ESD protection simulation using behavior models in 28nm CMOS **2017**,		1
78	Improved air stability of perovskite solar cells via solution-processed metal oxide transport layers. *Nature Nanotechnology*, **2016**, 11, 75-81	28.7	1614
77	Partial ligand exchange as a critical approach to the synthesis of transparent ytterbium fluoride–polymer nanocomposite monoliths for gamma ray scintillation. *Journal of Materials Chemistry C*, **2016**, 4, 3654-3660	7.1	13
76	Fluorescent Recognition of 1,2-Diamines by a 1,1'-Binaphthyl-Based Trifluoromethyl Ketone. *Chemistry - A European Journal*, **2016**, 22, 12061-7	4.8	11
75	Fluoroalkyl-substituted fullerene/perovskite heterojunction for efficient and ambient stable perovskite solar cells. *Nano Energy*, **2016**, 30, 417-425	17.1	61
74	Single Crystal Formamidinium Lead Iodide (FAPbI3): Insight into the Structural, Optical, and Electrical Properties. *Advanced Materials*, **2016**, 28, 2253-8	24	578
73	Superparamagnetic Reduced Graphene Oxide with Large Magnetoresistance: A Surface Modulation Strategy. *Angewandte Chemie*, **2016**, 128, 3228-3232	3.6	8
72	Greatly Enhanced Fluorescence by Increasing the Structural Rigidity of an Imine: Enantioselective Recognition of 1,2-Cyclohexanediamine by a Chiral Aldehyde. *Chemistry - A European Journal*, **2016**, 22, 5963-8	4.8	11
71	Effect of multi-walled carbon nanotubes on the morphology evolution, conductivity and rheological behaviors of poly(methyl methacrylate)/poly(styrene-co-acrylonitrile) blends during isothermal annealing. *RSC Advances*, **2016**, 6, 10099-10113	3.7	17
70	Guanidinium: A Route to Enhanced Carrier Lifetime and Open-Circuit Voltage in Hybrid Perovskite Solar Cells. *Nano Letters*, **2016**, 16, 1009-16	11.5	400
69	High-efficiency robust perovskite solar cells on ultrathin flexible substrates. *Nature Communications*, **2016**, 7, 10214	17.4	444
68	Superparamagnetic Reduced Graphene Oxide with Large Magnetoresistance: A Surface Modulation Strategy. *Angewandte Chemie - International Edition*, **2016**, 55, 3176-80	16.4	15
67	Perovskite Solar Cells Employing Dopant-Free Organic Hole Transport Materials with Tunable Energy Levels. *Advanced Materials*, **2016**, 28, 440-6	24	217

66	Mixture interlayer for high performance organic-inorganic perovskite photodetectors. *Applied Physics Letters*, **2016**, 109, 123301	3.4	31
65	Solution-Processed 8-Hydroquinolatolithium as Effective Cathode Interlayer for High-Performance Polymer Solar Cells. *ACS Applied Materials & Interfaces*, **2016**, 8, 9254-61	9.5	34
64	Highly selective ratiometric fluorescent recognition of histidine by tetraphenylethene□terpyridine□Zn(II) complexes. *RSC Advances*, **2016**, 6, 25319-25329	3.7	10
63	Low-Temperature TiOx Compact Layer for Planar Heterojunction Perovskite Solar Cells. *ACS Applied Materials & Interfaces*, **2016**, 8, 11076-83	9.5	91
62	Defect Passivation of Organic□Inorganic Hybrid Perovskites by Diammonium Iodide toward High-Performance Photovoltaic Devices. *ACS Energy Letters*, **2016**, 1, 757-763	20.1	237
61	Iridescent graphene/cellulose nanocrystal film with water response and highly electrical conductivity. *RSC Advances*, **2016**, 6, 93673-93679	3.7	16
60	The Additive Coordination Effect on Hybrids Perovskite Crystallization and High-Performance Solar Cell. *Advanced Materials*, **2016**, 28, 9862-9868	24	235
59	Unraveling film transformations and device performance of planar perovskite solar cells. *Nano Energy*, **2015**, 12, 494-500	17.1	61
58	Improving the TiO2 electron transport layer in perovskite solar cells using acetylacetonate-based additives. *Journal of Materials Chemistry A*, **2015**, 3, 9108-9115	13	94
57	Perovskite solar cells: film formation and properties. *Journal of Materials Chemistry A*, **2015**, 3, 9032-9050	13	327
56	Thermal, morphological, and physicomechanical properties of (chlorinated polyethylene rubber)/(chloroprene rubber) blends. *Journal of Vinyl and Additive Technology*, **2015**, 21, 18-23	2	5
55	Ambient stable large-area flexible organic solar cells using silver grid hybrid with vapor phase polymerized poly(3,4-Ethylenedioxythiophene) cathode. *Solar Energy Materials and Solar Cells*, **2015**, 143, 354-359	6.4	20
54	Quantitative operando visualization of the energy band depth profile in solar cells. *Nature Communications*, **2015**, 6, 7745	17.4	52
53	Under the spotlight: The organic□inorganic hybrid halide perovskite for optoelectronic applications. *Nano Today*, **2015**, 10, 355-396	17.9	700
52	Multilayer Transparent Top Electrode for Solution Processed Perovskite/Cu(In,Ga)(Se,S)2 Four Terminal Tandem Solar Cells. *ACS Nano*, **2015**, 9, 7714-21	16.7	139
51	The optoelectronic role of chlorine in CH3NH3PbI3(Cl)-based perovskite solar cells. *Nature Communications*, **2015**, 6, 7269	17.4	354
50	A dopant-free organic hole transport material for efficient planar heterojunction perovskite solar cells. *Journal of Materials Chemistry A*, **2015**, 3, 11940-11947	13	182
49	One-step, low-temperature deposited perovskite solar cell utilizing small molecule additive. *Journal of Photonics for Energy*, **2015**, 5, 057405	1.2	41

48	Hole selective NiO contact for efficient perovskite solar cells with carbon electrode. *Nano Letters*, **2015**, 15, 2402-8	11.5	357
47	Working Mechanism for Flexible Perovskite Solar Cells with Simplified Architecture. *Nano Letters*, **2015**, 15, 6514-20	11.5	82
46	Lewis Acid Assisted Diels-Alder Reaction with Regio- and Stereoselectivity: Anti-1,4-Adducts with Rigid Scaffolds and Their Application in Explosives Sensing. *Organic Letters*, **2015**, 17, 5016-9	6.2	8
45	Synthesis of transparent nanocomposite monoliths for gamma scintillation **2015**,		1
44	Multifunctional Fullerene Derivative for Interface Engineering in Perovskite Solar Cells. *Journal of the American Chemical Society*, **2015**, 137, 15540-7	16.4	433
43	Integrated perovskite/bulk-heterojunction toward efficient solar cells. *Nano Letters*, **2015**, 15, 662-8	11.5	129
42	The identification and characterization of defect states in hybrid organic-inorganic perovskite photovoltaics. *Physical Chemistry Chemical Physics*, **2015**, 17, 112-6	3.6	285
41	Vapor-assisted solution process for perovskite materials and solar cells. *MRS Bulletin*, **2015**, 40, 667-673	3.2	32
40	Elemental composition of organic aerosol: The gap between ambient and laboratory measurements. *Geophysical Research Letters*, **2015**, 42, 4182-4189	4.9	63
39	Facile Single-Precursor Synthesis and Surface Modification of Hafnium Oxide Nanoparticles for Nanocomposite X-Ray Scintillators. *Advanced Functional Materials*, **2015**, 25, 4607-4616	15.6	45
38	Perovskite/polymer monolithic hybrid tandem solar cells utilizing a low-temperature, full solution process. *Materials Horizons*, **2015**, 2, 203-211	14.4	127
37	Planar heterojunction perovskite solar cells via vapor-assisted solution process. *Journal of the American Chemical Society*, **2014**, 136, 622-5	16.4	1921
36	Low-temperature solution-processed perovskite solar cells with high efficiency and flexibility. *ACS Nano*, **2014**, 8, 1674-80	16.7	1216
35	Facile single-component precursor for Cu2ZnSnS4 with enhanced phase and composition controllability. *Energy and Environmental Science*, **2014**, 7, 998	35.4	25
34	Flexible silver grid/PEDOT:PSS hybrid electrodes for large area inverted polymer solar cells. *Nano Energy*, **2014**, 10, 259-267	17.1	103
33	Photovoltaics. Interface engineering of highly efficient perovskite solar cells. *Science*, **2014**, 345, 542-6	33.3	5272
32	Colloidal Indium-Doped Zinc Oxide Nanocrystals with Tunable Work Function: Rational Synthesis and Optoelectronic Applications. *Chemistry of Materials*, **2014**, 26, 5169-5178	9.6	62
31	The study of solvent additive effects in efficient polymer photovoltaics via impedance spectroscopy. *Solar Energy Materials and Solar Cells*, **2014**, 130, 20-26	6.4	65

30	Controllable self-induced passivation of hybrid lead iodide perovskites toward high performance solar cells. *Nano Letters*, **2014**, 14, 4158-63	11.5	1143
29	Probe the Effects of Surface Adsorbates on ZnO Nanowire Conductivity using Dielectric Force Microscopy. *Chinese Journal of Chemical Physics*, **2014**, 27, 582-586	0.9	2
28	The enthalpies and kinetic of dissolution of diterpenoid derivative Paclitaxel in aqueous NaCl solutions at 309.5 K. *Russian Journal of Physical Chemistry A*, **2013**, 87, 1276-1279	0.7	
27	Passivation of surface states in the ZnO nanowire with thermally evaporated copper phthalocyanine for hybrid photodetectors. *Nanoscale*, **2013**, 5, 4162-5	7.7	51
26	Synthesis of bulk-size transparent gadolinium oxide-polymer nanocomposites for gamma ray spectroscopy. *Journal of Materials Chemistry C*, **2013**, 1, 1970-1976	7.1	47
25	Enhanced hot-carrier luminescence in multilayer reduced graphene oxide nanospheres. *Scientific Reports*, **2013**, 3, 2315	4.9	14
24	Rapid mechanochemical preparation of a sandwich-like charge transfer complex. *CrystEngComm*, **2013**, 15, 4413	3.3	5
23	Solution-processed small molecules using different electron linkers for high-performance solar cells. *Advanced Materials*, **2013**, 25, 4657-62	24	92
22	Si/PEDOT hybrid core/shell nanowire arrays as photoelectrodes for photoelectrochemical water-splitting. *Nanoscale*, **2013**, 5, 5257-61	7.7	42
21	Tuning indium tin oxide work function with solution-processed alkali carbonate interfacial layers for high-efficiency inverted organic photovoltaic cells. *Nanotechnology*, **2013**, 24, 484011	3.4	24
20	Fast naked-eye detection of amines with viologen derivatives. *Supramolecular Chemistry*, **2013**, 25, 344-348	1.8	6
19	Contactless Characterization of Electronic Properties of Nanomaterials Using Dielectric Force Microscopy. *Journal of Physical Chemistry C*, **2012**, 116, 7158-7163	3.8	22
18	Efficient white polymer light-emitting diodes employing a silver nanowire-polymer composite electrode. *Physical Chemistry Chemical Physics*, **2012**, 14, 14249-54	3.6	38
17	Two-photon-pumped optical gain in dye-polymer composite materials. *Applied Physics Letters*, **2012** , 100, 133305	3.4	5
16	Frequency up-converted lasing in polymeric composites with two-photon absorbing antenna. *Optics Express*, **2012**, 20, 9135-43	3.3	7
15	Numerical Modelling and Analysis of Infrared Testing in Delaminations of Pressurepipes Using ANSYS **2012**,		1
14	Structure dependence in hybrid Si nanowire/poly(3,4-ethylenedioxythiophene):poly(styrenesulfonate) solar cells: Understanding photovoltaic conversion in nanowire radial junctions. *Applied Physics Letters*, **2012**, 100, 023112	3.4	26
13	Highly flexible silver nanowire electrodes for shape-memory polymer light-emitting diodes. *Advanced Materials*, **2011**, 23, 664-8	24	569

12	Efficient flexible phosphorescent polymer light-emitting diodes based on silver nanowire-polymer composite electrode. *Advanced Materials*, **2011**, 23, 5563-7	24	170
11	Conjugated polymers for radiation detection. *Annual Reports on the Progress of Chemistry Section C*, **2011**, 107, 298		12
10	Luminescence Properties of Eu(III) Complex/Polyvinylpyrrolidone Electrospun Composite Nanofibers. *Journal of Physical Chemistry C*, **2010**, 114, 3898-3903	3.8	44
9	Curing kinetics and structural changes of a of di[(N-m-acetenylphenyl) phthalimide] ether/[(methyl) diphenylacetylene] silane copolymer. *Journal of Applied Polymer Science*, **2006**, 100, 2126-2130	2.9	7
8	Microstructure formation and property of chitosan-poly(acrylic acid) nanoparticles prepared by macromolecular complex. *Macromolecular Bioscience*, **2005**, 5, 993-1000	5.5	26
7	Simple inorganic base promoted polycyclic construction using mucohalic acid as a C3 synthon: synthesis and AIE probe application of benzo[4,5]imidazo[1,2-a]pyridines. *Organic Chemistry Frontiers*,	5.2	4
6	Enhanced domain wall conductivity in photosensitive ferroelectrics Sn2P2S6 with full-visible-spectrum absorption. *Science China Materials*,1	7.1	1
5	Development of encapsulation strategies towards the commercialization of perovskite solar cells. *Energy and Environmental Science*,	35.4	33
4	Perylene-diimide-based cathode interlayer materials for high performance organic solar cells. *SusMat*,		6
3	Molecular Hinges Stabilize Formamidinium-Based Perovskite Solar Cells with Compressive Strain. *Advanced Functional Materials*,2201193	15.6	13
2	Cost Analysis of Perovskite/Cu(In,Ga)Se2 Tandem Photovoltaic with Module Replacement. *ACS Energy Letters*,1920-1925	20.1	0
1	Bright future of polymerizing small-molecule acceptors in realizing high performance all-polymer solar cells. *Frontiers of Chemical Science and Engineering*,1	4.5	