

Jun Yin

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.

174
papers

8,965
citations

50
h-index

90
g-index

194
ext. papers

11,509
ext. citations

11.9
avg, IF

6.49
L-index

#	Paper	IF	Citations
174	Energy Transfer in Metal-Organic Frameworks for Fluorescence Sensing.. <i>ACS Applied Materials & Interfaces</i> , 2022 ,	9.5	15
173	Engineering Surface Orientations for Efficient and Stable Hybrid Perovskite Single-Crystal Solar Cells. <i>ACS Energy Letters</i> , 2022 , 7, 1544-1552	20.1	6
172	Exciton Self-Trapping for White Emission in 100-Oriented Two-Dimensional Perovskites via Halogen Substitution. <i>ACS Energy Letters</i> , 2022 , 7, 453-460	20.1	9
171	Installation of synergistic binding sites onto porous organic polymers for efficient removal of perfluorooctanoic acid.. <i>Nature Communications</i> , 2022 , 13, 2132	17.4	1
170	Resonance-mediated dynamic modulation of perovskite crystallization for efficient and stable solar cells. <i>Advanced Materials</i> , 2021 , e2107111	24	10
169	28.2%-efficient, outdoor-stable perovskite/silicon tandem solar cell. <i>Joule</i> , 2021 ,	27.8	15
168	Nearly 100% energy transfer at the interface of metal-organic frameworks for X-ray imaging scintillators. <i>Matter</i> , 2021 ,	12.7	15
167	Elastomeric Nanodielectrics for Soft and Hysteresis-Free Electronics. <i>Advanced Materials</i> , 2021 , e21047614	14	1
166	Cyanamide Passivation Enables Robust Elemental Imaging of Metal Halide Perovskites at Atomic Resolution. <i>Journal of Physical Chemistry Letters</i> , 2021 , 12, 10402-10409	6.4	6
165	Linked Nickel Oxide/Perovskite Interface Passivation for High-Performance Textured Monolithic Tandem Solar Cells (Adv. Energy Mater. 40/2021). <i>Advanced Energy Materials</i> , 2021 , 11, 2170160	21.8	
164	Luminescence and Stability Enhancement of Inorganic Perovskite Nanocrystals via Selective Surface Ligand Binding. <i>ACS Nano</i> , 2021 ,	16.7	10
163	[Cu (PPh) ₃ (PET)] : a Copper Nanocluster with Crystallization Enhanced Photoluminescence. <i>Small</i> , 2021 , 17, e2006839	11	10
162	Successes and Challenges of Core/Shell Lead Halide Perovskite Nanocrystals. <i>ACS Energy Letters</i> , 2021 , 6, 1340-1357	20.1	30
161	Effect of Zinc-Doping on the Reduction of the Hot-Carrier Cooling Rate in Halide Perovskites. <i>Angewandte Chemie</i> , 2021 , 133, 11052-11058	3.6	
160	Effect of Zinc-Doping on the Reduction of the Hot-Carrier Cooling Rate in Halide Perovskites. <i>Angewandte Chemie - International Edition</i> , 2021 , 60, 10957-10963	16.4	14
159	Gentle Materials Need Gentle Fabrication: Encapsulation of Perovskites by Gas-Phase Alumina Deposition. <i>Journal of Physical Chemistry Letters</i> , 2021 , 12, 2348-2357	6.4	4
158	Intriguing Ultrafast Charge Carrier Dynamics in Two-Dimensional Ruddlesden-Popper Hybrid Perovskites. <i>Journal of Physical Chemistry C</i> , 2021 , 125, 9630-9637	3.8	3

157	Theory-Guided Synthesis of Highly Luminescent Colloidal Cesium Tin Halide Perovskite Nanocrystals. <i>Journal of the American Chemical Society</i> , 2021 , 143, 5470-5480	16.4	17
156	Perovskite Quantum Dots as Multifunctional Interlayers in Perovskite Solar Cells with Dopant-Free Organic Hole Transporting Layers. <i>Journal of the American Chemical Society</i> , 2021 , 143, 5855-5866	16.4	22
155	Engineered tunneling layer with enhanced impact ionization for detection improvement in graphene/silicon heterojunction photodetectors. <i>Light: Science and Applications</i> , 2021 , 10, 113	16.7	9
154	Shining Light on the Structure of Lead Halide Perovskite Nanocrystals 2021 , 3, 845-861		8
153	Directional Exciton Migration in Benzoimidazole-Based Metal-Organic Frameworks. <i>Journal of Physical Chemistry Letters</i> , 2021 , 12, 4917-4927	6.4	4
152	Manipulation of hot carrier cooling dynamics in two-dimensional Dion-Jacobson hybrid perovskites via Rashba band splitting. <i>Nature Communications</i> , 2021 , 12, 3995	17.4	11
151	Self-Optimized Metal-Organic Framework Electrocatalysts with Structural Stability and High Current Tolerance for Water Oxidation. <i>ACS Catalysis</i> , 2021 , 11, 7132-7143	13.1	20
150	State of the Art and Prospects for Halide Perovskite Nanocrystals. <i>ACS Nano</i> , 2021 , 15, 10775-10981	16.7	222
149	Cascade Electron Transfer Induces Slow Hot Carrier Relaxation in CsPbBr ₃ Asymmetric Quantum Wells. <i>ACS Energy Letters</i> , 2021 , 6, 2602-2609	20.1	4
148	Enhancement of Room-Temperature Photoluminescence and Valley Polarization of Monolayer and Bilayer WS ₂ via Chiral Plasmonic Coupling. <i>ACS Applied Materials & Interfaces</i> , 2021 , 13, 35097-35104	9.5	1
147	Sulfonate-Assisted Surface Iodide Management for High-Performance Perovskite Solar Cells and Modules. <i>Journal of the American Chemical Society</i> , 2021 , 143, 10624-10632	16.4	31
146	Dual-Mode Plasmonic Coupling-Enhanced Color Conversion of Inorganic CsPbBr ₃ Perovskite Quantum Dot Films. <i>ACS Applied Materials & Interfaces</i> , 2021 , 13, 32856-32864	9.5	0
145	Crown Ether-Assisted Growth and Scaling Up of FACsPbI ₃ Films for Efficient and Stable Perovskite Solar Modules. <i>Advanced Functional Materials</i> , 2021 , 31, 2008760	15.6	19
144	Hyperstable Perovskite Solar Cells Without Ion Migration and Metal Diffusion Based on ZnS Segregated Cubic ZnTiO ₃ Electron Transport Layers. <i>Solar Rrl</i> , 2021 , 5, 2000654	7.1	3
143	[Cu ₂₃ (PhSe) ₁₆ (Ph ₃ P) ₈ (H) ₆][BF ₄]: Atomic-Level Insights into Cuboidal Polyhydrido Copper Nanoclusters and Their Quasi-simple Cubic Self-Assembly 2021 , 3, 90-99		12
142	Understanding liquefaction in halide perovskites upon methylamine gas exposure.. <i>RSC Advances</i> , 2021 , 11, 20423-20428	3.7	
141	Oxidized eutectic galliumindium (EGaIn) nanoparticles for broadband light response in a graphene-based photodetector. <i>Materials Advances</i> , 2021 , 2, 4414-4422	3.3	1
140	Recent Advances on Conductive 2D Covalent Organic Frameworks. <i>Small</i> , 2021 , 17, e2006043	11	18

139	CsMnBr ₃ : Lead-Free Nanocrystals with High Photoluminescence Quantum Yield and Picosecond Radiative Lifetime 2021 , 3, 290-297		37
138	Air-Resistant Lead Halide Perovskite Nanocrystals Embedded into Polyimide of Intrinsic Microporosity. <i>Energy Material Advances</i> , 2021 , 2021, 1-9	1	4
137	Zincophilic Laser-Scribed Graphene Interlayer for Homogeneous Zinc Deposition and Stable Zinc-Ion Batteries. <i>Energy Technology</i> , 2021 , 9, 2100490	3.5	5
136	Manipulating crystallization dynamics through chelating molecules for bright perovskite emitters. <i>Nature Communications</i> , 2021 , 12, 4831	17.4	16
135	High-mobility patternable MoS ₂ percolating nanofilms. <i>Nano Research</i> , 2020 , 14, 2255	10	9
134	Modulation of Broadband Emissions in Two-Dimensional <100>-Oriented Ruddlesden-Popper Hybrid Perovskites. <i>ACS Energy Letters</i> , 2020 , 5, 2149-2155	20.1	33
133	Methylamine-Dimer-Induced Phase Transition toward MAPbI ₃ Films and High-Efficiency Perovskite Solar Modules. <i>Journal of the American Chemical Society</i> , 2020 , 142, 6149-6157	16.4	32
132	Doping Induces Structural Phase Transitions in All-Inorganic Lead Halide Perovskite Nanocrystals 2020 , 2, 367-375		27
131	Unprecedented Surface Plasmon Modes in Monoclinic MoO ₃ Nanostructures. <i>Advanced Materials</i> , 2020 , 32, e1908392	24	12
130	Infrared dielectric metamaterials from high refractive index chalcogenides. <i>Nature Communications</i> , 2020 , 11, 1692	17.4	22
129	Highly Stable Phosphonate-Based MOFs with Engineered Bandgaps for Efficient Photocatalytic Hydrogen Production. <i>Advanced Materials</i> , 2020 , 32, e1906368	24	60
128	Interface Matters: Enhanced Photoluminescence and Long-Term Stability of Zero-Dimensional Cesium Lead Bromide Nanocrystals Gas-Phase Aluminum Oxide Encapsulation. <i>ACS Applied Materials & Interfaces</i> , 2020 , 12, 35598-35605	9.5	7
127	Defect Passivation in Perovskite Solar Cells by Cyano-Based Conjugated Molecules for Improved Performance and Stability. <i>Advanced Functional Materials</i> , 2020 , 30, 2002861	15.6	43
126	Chlorine Vacancy Passivation in Mixed Halide Perovskite Quantum Dots by Organic Pseudohalides Enables Efficient Rec. 2020 Blue Light-Emitting Diodes. <i>ACS Energy Letters</i> , 2020 , 5, 793-798	20.1	100
125	Investigating the Origin of Enhanced C Selectivity in Oxide-/Hydroxide-Derived Copper Electrodes during CO Electroreduction. <i>Journal of the American Chemical Society</i> , 2020 , 142, 4213-4222	16.4	109
124	Real-Space Mapping of Surface-Oxygen Defect States in Photovoltaic Materials Using Low-Voltage Scanning Ultrafast Electron Microscopy. <i>ACS Applied Materials & Interfaces</i> , 2020 , 12, 7760-7767	9.5	9
123	Managing grains and interfaces via ligand anchoring enables 22.3%-efficiency inverted perovskite solar cells. <i>Nature Energy</i> , 2020 , 5, 131-140	62.3	552
122	[Cu(PhS)(BuNH)(H)] Reveals the Coexistence of Large Planar Cores and Hemispherical Shells in High-Nuclearity Copper Nanoclusters. <i>Journal of the American Chemical Society</i> , 2020 , 142, 8696-8705	16.4	37

121	Boosting Self-Trapped Emissions in Zero-Dimensional Perovskite Heterostructures. <i>Chemistry of Materials</i> , 2020 , 32, 5036-5043	9.6	24
120	Large Polaron Self-Trapped States in Three-Dimensional Metal-Halide Perovskites 2020 , 2, 20-27		15
119	Near-unity photoluminescence quantum yield in inorganic perovskite nanocrystals by metal-ion doping. <i>Journal of Chemical Physics</i> , 2020 , 152, 020902	3.9	26
118	Single Crystals: The Next Big Wave of Perovskite Optoelectronics 2020 , 2, 184-214		56
117	Lead-free, stable, high-efficiency (52%) blue luminescent FABiBr perovskite quantum dots. <i>Nanoscale Horizons</i> , 2020 , 5, 580-585	10.8	41
116	Interface Engineering of Cubic Zinc Metatitanate as an Excellent Electron Transport Material for Stable Perovskite Solar Cells. <i>Solar Rrl</i> , 2020 , 4, 1900533	7.1	10
115	Hydrated Mg _x V ₅ O ₁₂ Cathode with Improved Mg ²⁺ Storage Performance. <i>Advanced Energy Materials</i> , 2020 , 10, 2002128	21.8	13
114	High-Resolution Printable and Elastomeric Conductors from Strain-Adaptive Assemblies of Metallic Nanoparticles with Low Aspect Ratios. <i>Small</i> , 2020 , 16, e2004793	11	4
113	High-Responsivity Photodetector Based on a Suspended Monolayer Graphene/RbAgI Composite Nanostructure. <i>ACS Applied Materials & Interfaces</i> , 2020 , 12, 50763-50771	9.5	3
112	Synergistic combination of carbon-black and graphene for 3D printable stretchable conductors. <i>Materials Technology</i> , 2020 , 1-10	2.1	6
111	Light-Trapping Engineering for the Enhancements of Broadband and Spectra-Selective Photodetection by Self-Assembled Dielectric Microcavity Arrays. <i>Nanoscale Research Letters</i> , 2019 , 14, 187	5	1
110	MAPbI ₃ Single Crystals Free from Hole-Trapping Centers for Enhanced Photodetectivity. <i>ACS Energy Letters</i> , 2019 , 4, 2579-2584	20.1	28
109	Extraordinary Carrier Diffusion on CdTe Surfaces Uncovered by 4D Electron Microscopy. <i>Chem</i> , 2019 , 5, 706-718	16.2	14
108	Assembly of Atomically Precise Silver Nanoclusters into Nanocluster-Based Frameworks. <i>Journal of the American Chemical Society</i> , 2019 , 141, 9585-9592	16.4	81
107	Defect-Triggered Phase Transition in Cesium Lead Halide Perovskite Nanocrystals 2019 , 1, 185-191		37
106	Compositionally Screened Eutectic Catalytic Coatings on Halide Perovskite Photocathodes for Photoassisted Selective CO ₂ Reduction. <i>ACS Energy Letters</i> , 2019 , 4, 1279-1286	20.1	32
105	Why are Hot Holes Easier to Extract than Hot Electrons from Methylammonium Lead Iodide Perovskite?. <i>Advanced Energy Materials</i> , 2019 , 9, 1900084	21.8	30
104	Polarization-Controllable Plasmonic Enhancement on the Optical Response of Two-Dimensional GaSe Layers. <i>ACS Applied Materials & Interfaces</i> , 2019 , 11, 19631-19637	9.5	7

103	Unprecedented Ultralow Detection Limit of Amines using a Thiadiazole-Functionalized Zr(IV)-Based Metal-Organic Framework. <i>Journal of the American Chemical Society</i> , 2019 , 141, 7245-7249	16.4	139
102	Ag ₂ S Quantum Dots as an Infrared Excited Photocatalyst for Hydrogen Production. <i>ACS Applied Energy Materials</i> , 2019 , 2, 2751-2759	6.1	30
101	Monoammonium Porphyrin for Blade-Coating Stable Large-Area Perovskite Solar Cells with >18% Efficiency. <i>Journal of the American Chemical Society</i> , 2019 , 141, 6345-6351	16.4	98
100	Light-Induced Self-Assembly of Cubic CsPbBr ₃ Perovskite Nanocrystals into Nanowires. <i>Chemistry of Materials</i> , 2019 , 31, 6642-6649	9.6	73
99	White light emission in low-dimensional perovskites. <i>Journal of Materials Chemistry C</i> , 2019 , 7, 4956-4969	9.1	99
98	Visualization of Charge Carrier Trapping in Silicon at the Atomic Surface Level Using Four-Dimensional Electron Imaging. <i>Journal of Physical Chemistry Letters</i> , 2019 , 10, 1960-1966	6.4	5
97	Unlocking the Effect of Trivalent Metal Doping in All-Inorganic CsPbBr ₃ Perovskite. <i>ACS Energy Letters</i> , 2019 , 4, 789-795	20.1	77
96	Layer-Dependent Coherent Acoustic Phonons in Two-Dimensional Ruddlesden-Popper Perovskite Crystals. <i>Journal of Physical Chemistry Letters</i> , 2019 , 10, 5259-5264	6.4	23
95	Emergence of multiple fluorophores in individual cesium lead bromide nanocrystals. <i>Nature Communications</i> , 2019 , 10, 2930	17.4	31
94	Tuning Hot Carrier Cooling Dynamics by Dielectric Confinement in Two-Dimensional Hybrid Perovskite Crystals. <i>ACS Nano</i> , 2019 , 13, 12621-12629	16.7	55
93	Halogen Vacancies Enable Ligand-Assisted Self-Assembly of Perovskite Quantum Dots into Nanowires. <i>Angewandte Chemie</i> , 2019 , 131, 16223-16227	3.6	13
92	3D CoMoSe Nanosheet Arrays Converted Directly from Hydrothermally Processed CoMoO Nanosheet Arrays by Plasma-Assisted Selenization Process Toward Excellent Anode Material in Sodium-Ion Battery. <i>Nanoscale Research Letters</i> , 2019 , 14, 213	5	9
91	Halogen Vacancies Enable Ligand-Assisted Self-Assembly of Perovskite Quantum Dots into Nanowires. <i>Angewandte Chemie - International Edition</i> , 2019 , 58, 16077-16081	16.4	32
90	Tunable Twisting Motion of Organic Linkers via Concentration and Hydrogen-Bond Formation. <i>Journal of Physical Chemistry C</i> , 2019 , 123, 5900-5906	3.8	10
89	Photoresponsive azobenzene ligand as an efficient electron acceptor for luminous CdTe quantum dots. <i>Journal of Photochemistry and Photobiology A: Chemistry</i> , 2019 , 375, 48-53	4.7	9
88	Br-containing alkyl ammonium salt-enabled scalable fabrication of high-quality perovskite films for efficient and stable perovskite modules. <i>Journal of Materials Chemistry A</i> , 2019 , 7, 26849-26857	13	29
87	Reduced ion migration and enhanced photoresponse in cuboid crystals of methylammonium lead iodide perovskite. <i>Journal Physics D: Applied Physics</i> , 2019 , 52, 054001	3	11
86	Tellurium-Based Double Perovskites A ₂ TeX ₆ with Tunable Band Gap and Long Carrier Diffusion Length for Optoelectronic Applications. <i>ACS Energy Letters</i> , 2019 , 4, 228-234	20.1	34

85	Ligand-Free Nanocrystals of Highly Emissive Cs ₄ PbBr ₆ Perovskite. <i>Journal of Physical Chemistry C</i> , 2018 , 122, 6493-6498	3.8	52
84	Manipulation of the crystallization of perovskite films induced by a rotating magnetic field during blade coating in air. <i>Journal of Materials Chemistry A</i> , 2018 , 6, 3986-3995	13	11
83	Characterization of the Valence and Conduction Band Levels of n = 1 2D Perovskites: A Combined Experimental and Theoretical Investigation. <i>Advanced Energy Materials</i> , 2018 , 8, 1703468	21.8	48
82	Tunable Multipolar Surface Plasmons in 2D TiC T MXene Flakes. <i>ACS Nano</i> , 2018 , 12, 8485-8493	16.7	105
81	Growth-Dynamic-Controllable Rapid Crystallization Boosts the Perovskite Photovoltaics Robust Preparation: From Blade Coating to Painting. <i>ACS Applied Materials & Interfaces</i> , 2018 , 10, 23103-23111	9.7	14
80	Phase-change-driven dielectric-plasmonic transitions in chalcogenide metasurfaces. <i>NPG Asia Materials</i> , 2018 , 10, 533-539	10.3	76
79	Bidentate Ligand-Passivated CsPbI ₃ Perovskite Nanocrystals for Stable Near-Unity Photoluminescence Quantum Yield and Efficient Red Light-Emitting Diodes. <i>Journal of the American Chemical Society</i> , 2018 , 140, 562-565	16.4	537
78	Extremely reduced dielectric confinement in two-dimensional hybrid perovskites with large polar organics. <i>Communications Physics</i> , 2018 , 1,	5.4	84
77	Layer-edge device of two-dimensional hybrid perovskites. <i>Nature Communications</i> , 2018 , 9, 5196	17.4	49
76	Structure-controlled optical thermoresponse in Ruddlesden-Popper layered perovskites. <i>APL Materials</i> , 2018 , 6, 114207	5.7	15
75	Layer-Dependent Rashba Band Splitting in 2D Hybrid Perovskites. <i>Chemistry of Materials</i> , 2018 , 30, 8538-8545	9.5	66
74	Halogen Migration in Hybrid Perovskites: The Organic Cation Matters. <i>Journal of Physical Chemistry Letters</i> , 2018 , 9, 5474-5480	6.4	77
73	Point Defects and Green Emission in Zero-Dimensional Perovskites. <i>Journal of Physical Chemistry Letters</i> , 2018 , 9, 5490-5495	6.4	103
72	Giant Photoluminescence Enhancement in CsPbCl ₃ Perovskite Nanocrystals by Simultaneous Dual-Surface Passivation. <i>ACS Energy Letters</i> , 2018 , 3, 2301-2307	20.1	189
71	Imaging the Reduction of Electron Trap States in Shelled Copper Indium Gallium Selenide Nanocrystals Using Ultrafast Electron Microscopy. <i>Journal of Physical Chemistry C</i> , 2018 , 122, 15010-15016	3.8	3
70	The Benefit and Challenges of Zero-Dimensional Perovskites. <i>Journal of Physical Chemistry Letters</i> , 2018 , 9, 4131-4138	6.4	86
69	Excitonic and Polaronic Properties of 2D Hybrid Organic-Inorganic Perovskites. <i>ACS Energy Letters</i> , 2017 , 2, 417-423	20.1	105
68	Polaron self-localization in white-light emitting hybrid perovskites. <i>Journal of Materials Chemistry C</i> , 2017 , 5, 2771-2780	7.1	155

67	Pyridine-Induced Dimensionality Change in Hybrid Perovskite Nanocrystals. <i>Chemistry of Materials</i> , 2017 , 29, 4393-4400	9.6	68
66	Synergetic SERS Enhancement in a Metal-Like/Metal Double-Shell Structure for Sensitive and Stable Application. <i>ACS Applied Materials & Interfaces</i> , 2017 , 9, 13564-13570	9.5	17
65	Contribution of Metal Defects in the Assembly Induced Emission of Cu Nanoclusters. <i>Journal of the American Chemical Society</i> , 2017 , 139, 4318-4321	16.4	123
64	Inner salt-shaped small molecular photosensitizer with extremely enhanced two-photon absorption for mitochondrial-targeted photodynamic therapy. <i>Chemical Communications</i> , 2017 , 53, 1680-1683	5.8	38
63	Room-Temperature Engineering of All-Inorganic Perovskite Nanocrystals with Different Dimensionalities. <i>Chemistry of Materials</i> , 2017 , 29, 8978-8982	9.6	137
62	Plasmonics of topological insulators at optical frequencies. <i>NPG Asia Materials</i> , 2017 , 9, e425-e425	10.3	43
61	Ultralong Radiative States in Hybrid Perovskite Crystals: Compositions for Submillimeter Diffusion Lengths. <i>Journal of Physical Chemistry Letters</i> , 2017 , 8, 4386-4390	6.4	59
60	Inside Perovskites: Quantum Luminescence from Bulk Cs ₄ PbBr ₆ Single Crystals. <i>Chemistry of Materials</i> , 2017 , 29, 7108-7113	9.6	160
59	CsPb Br Single Crystals: Synthesis and Characterization. <i>ChemSusChem</i> , 2017 , 10, 3746-3749	8.3	93
58	Unique Reversible Crystal-to-Crystal Phase Transition Structural and Functional Properties of Fused Ladder Thienoarenes. <i>Chemistry of Materials</i> , 2017 , 29, 7686-7696	9.6	6
57	Molecular behavior of zero-dimensional perovskites. <i>Science Advances</i> , 2017 , 3, e1701793	14.3	137
56	Intrinsic Lead Ion Emissions in Zero-Dimensional Cs ₄ PbBr ₆ Nanocrystals. <i>ACS Energy Letters</i> , 2017 , 2, 2805-2811	20.1	109
55	Direct-Indirect Nature of the Bandgap in Lead-Free Perovskite Nanocrystals. <i>Journal of Physical Chemistry Letters</i> , 2017 , 8, 3173-3177	6.4	139
54	Ultralow Self-Doping in Two-dimensional Hybrid Perovskite Single Crystals. <i>Nano Letters</i> , 2017 , 17, 4759-4767	11.5	202
53	Visible Range Plasmonic Modes on Topological Insulator Nanostructures. <i>Advanced Optical Materials</i> , 2017 , 5, 1600768	8.1	44
52	A fused thieno[3,2-b]thiophene-dithiophene based donor molecule for organic photovoltaics: a structural comparative study with indacenodithiophene. <i>Journal of Materials Chemistry C</i> , 2016 , 4, 9656-9663	7.1	4
51	Vapor-assisted crystallization control toward high performance perovskite photovoltaics with over 18% efficiency in the ambient atmosphere. <i>Journal of Materials Chemistry A</i> , 2016 , 4, 13203-13210	13	59
50	Identifying the Molecular Structures of Intermediates for Optimizing the Fabrication of High-Quality Perovskite Films. <i>Journal of the American Chemical Society</i> , 2016 , 138, 9919-26	16.4	203

49	First-Principles Study of the Nuclear Dynamics of Doped Conjugated Polymers. <i>Journal of Physical Chemistry C</i> , 2016 , 120, 1994-2001	3.8	17
48	Lead-Free MA ₂ CuCl(x)Br(4-x) Hybrid Perovskites. <i>Inorganic Chemistry</i> , 2016 , 55, 1044-52	5.1	345
47	Enhancing Organic Phosphorescence by Manipulating Heavy-Atom Interaction. <i>Crystal Growth and Design</i> , 2016 , 16, 808-813	3.5	86
46	Light absorption enhancement by embedding submicron scattering TiO ₂ nanoparticles in perovskite solar cells. <i>RSC Advances</i> , 2016 , 6, 24596-24602	3.7	24
45	Trace surface-clean palladium nanosheets as a conductivity enhancer in hole-transporting layers to improve the overall performances of perovskite solar cells. <i>Nanoscale</i> , 2016 , 8, 3274-7	7.7	21
44	Facile synthesis of a hole transporting material with a silafluorene core for efficient mesoscopic CH ₃ NH ₃ PbI ₃ perovskite solar cells. <i>Journal of Materials Chemistry A</i> , 2016 , 4, 8750-8754	13	34
43	Improved stability of perovskite solar cells in ambient air by controlling the mesoporous layer. <i>Journal of Materials Chemistry A</i> , 2015 , 3, 16860-16866	13	75
42	Lead iodide perovskite light-emitting field-effect transistor. <i>Nature Communications</i> , 2015 , 6, 7383	17.4	551
41	Multiple coupling in plasmonic metal/dielectric hollow nanocavity arrays for highly sensitive detection. <i>Nanoscale</i> , 2015 , 7, 13495-502	7.7	7
40	Thiols as interfacial modifiers to enhance the performance and stability of perovskite solar cells. <i>Nanoscale</i> , 2015 , 7, 9443-7	7.7	159
39	Interfacial Charge Transfer Anisotropy in Polycrystalline Lead Iodide Perovskite Films. <i>Journal of Physical Chemistry Letters</i> , 2015 , 6, 1396-402	6.4	112
38	Well-Defined Thiolated Nanographene as Hole-Transporting Material for Efficient and Stable Perovskite Solar Cells. <i>Journal of the American Chemical Society</i> , 2015 , 137, 10914-7	16.4	198
37	Small-Size Effects on Electron Transfer in P3HT/InP Quantum Dots. <i>Journal of Physical Chemistry C</i> , 2015 , 119, 26783-26792	3.8	10
36	Facile Synthesis of a Furan-Arylamine Hole-Transporting Material for High-Efficiency, Mesoscopic Perovskite Solar Cells. <i>Chemistry - A European Journal</i> , 2015 , 21, 15113-7	4.8	45
35	Femtosecond to Microsecond Dynamics of Soret-Band Excited Corroles. <i>Journal of Physical Chemistry C</i> , 2015 , 119, 28691-28700	3.8	19
34	Mapping polarons in polymer FETs by charge modulation microscopy in the mid-infrared. <i>Scientific Reports</i> , 2014 , 4, 3626	4.9	15
33	Plasmonic-enhanced self-cleaning activity on asymmetric Ag/ZnO surface-enhanced Raman scattering substrates under UV and visible light irradiation. <i>Journal of Materials Chemistry A</i> , 2014 , 2, 7747-7753	13	40
32	Multipole plasmon resonances in self-assembled metal hollow-nanospheres. <i>Nanoscale</i> , 2014 , 6, 3934-407.7	24	

31	Ambipolar Charge Photogeneration and Transfer at GaAs/P3HT Heterointerfaces. <i>Journal of Physical Chemistry Letters</i> , 2014 , 5, 1144-50	6.4	9
30	Surface Plasmon Enhanced Hot Exciton Emission in Deep UV-Emitting AlGaIn Multiple Quantum Wells. <i>Advanced Optical Materials</i> , 2014 , 2, 451-458	8.1	28
29	Novel hole transporting materials based on triptycene core for high efficiency mesoscopic perovskite solar cells. <i>Chemical Science</i> , 2014 , 5, 2702-2709	9.4	160
28	Charge Redistribution at GaAs/P3HT Heterointerfaces with Different Surface Polarity. <i>Journal of Physical Chemistry Letters</i> , 2013 , 4, 3303-3309	6.4	20
27	Ultrafast charge carrier dynamics in organic (opto)electronic materials 2013 , 318-355		1
26	Modulation of singlet and triplet excited states through β spacers in ternary 1,3,5-triazines. <i>RSC Advances</i> , 2013 , 3, 13782	3.7	6
25	Self-assembled hollow nanosphere arrays used as low Q whispering gallery mode resonators on thin film solar cells for light trapping. <i>Physical Chemistry Chemical Physics</i> , 2013 , 15, 16874-82	3.6	29
24	Photophysical properties of chirality: Experimental and theoretical studies of (R)- and (S)-binaphthol derivatives as a prototype case. <i>Chemical Physics</i> , 2013 , 412, 34-40	2.3	2
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22	Exceptional blueshifted and enhanced aggregation-induced emission of conjugated asymmetric triazines and their applications in superamplified detection of explosives. <i>Chemistry - A European Journal</i> , 2012 , 18, 15655-61	4.8	56
21	Theoretical study of organic molecules containing N or S atoms as receptors for Hg(II) fluorescent sensors. <i>Synthetic Metals</i> , 2012 , 162, 641-649	3.6	19
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18	Novel heterofluorene-based hosts for highly efficient blue electrophosphorescence at low operating voltages. <i>Organic Electronics</i> , 2011 , 12, 1619-1624	3.5	28
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15	Tuning the optoelectronic properties of 4,4'-N,N'-dicarbazole-biphenyl through heteroatom linkage: new host materials for phosphorescent organic light-emitting diodes. <i>Organic Letters</i> , 2010 , 12, 3438-41	6.2	67
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9	Concentrated dual-cation electrolyte strategy for aqueous zinc-ion batteries. <i>Energy and Environmental Science</i> ,	35.4	42
8	An Aqueous Mg ²⁺ -Based Dual-Ion Battery with High Power Density. <i>Advanced Functional Materials</i> ,2107523	5.2	8
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6	Scalable Preparation of High-Performance ZnO/BnO ₂ Cascaded Electron Transport Layer for Efficient Perovskite Solar Modules. <i>Solar Rrl</i> ,2100639	7.1	5
5	Single-Particle Spectroscopy as a Versatile Tool to Explore Lower-Dimensional Structures of Inorganic Perovskites. <i>ACS Energy Letters</i> ,3695-3708	20.1	1
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3	Synergistic Effect between NiO _x and P3HT Enabling Efficient and Stable Hole Transport Pathways for Regular Perovskite Photovoltaics. <i>Advanced Functional Materials</i> ,2201423	15.6	1
2	Engineering kesterite based photocathode for photoelectrochemical ammonia synthesis from NO _x reduction. <i>Advanced Materials</i> ,2201670	24	2
1	Multiple exciton generation in tin/lead halide perovskite nanocrystals for photocurrent quantum efficiency enhancement. <i>Nature Photonics</i> ,	33.9	6