Jun Yin

List of Publications by Citations

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	Managing grains and interfaces via ligand anchoring enables 22.3%-efficiency inverted perovskite solar cells. *Nature Energy*, **2020**, 5, 131-140	62.3	552
173	Lead iodide perovskite light-emitting field-effect transistor. *Nature Communications*, **2015**, 6, 7383	17.4	551
172	Bidentate Ligand-Passivated CsPbI Perovskite Nanocrystals for Stable Near-Unity Photoluminescence Quantum Yield and Efficient Red Light-Emitting Diodes. *Journal of the American Chemical Society*, **2018**, 140, 562-565	16.4	537
171	Lead-Free MA2CuCl(x)Br(4-x) Hybrid Perovskites. *Inorganic Chemistry*, **2016**, 55, 1044-52	5.1	345
170	State of the Art and Prospects for Halide Perovskite Nanocrystals. *ACS Nano*, **2021**, 15, 10775-10981	16.7	222
169	Identifying the Molecular Structures of Intermediates for Optimizing the Fabrication of High-Quality Perovskite Films. *Journal of the American Chemical Society*, **2016**, 138, 9919-26	16.4	203
168	Ultralow Self-Doping in Two-dimensional Hybrid Perovskite Single Crystals. *Nano Letters*, **2017**, 17, 4759-4767	11.5	202
167	Well-Defined Thiolated Nanographene as Hole-Transporting Material for Efficient and Stable Perovskite Solar Cells. *Journal of the American Chemical Society*, **2015**, 137, 10914-7	16.4	198
166	Giant Photoluminescence Enhancement in CsPbCl3 Perovskite Nanocrystals by Simultaneous Dual-Surface Passivation. *ACS Energy Letters*, **2018**, 3, 2301-2307	20.1	189
165	Novel hole transporting materials based on triptycene core for high efficiency mesoscopic perovskite solar cells. *Chemical Science*, **2014**, 5, 2702-2709	9.4	160
164	Inside Perovskites: Quantum Luminescence from Bulk Cs4PbBr6 Single Crystals. *Chemistry of Materials*, **2017**, 29, 7108-7113	9.6	160
163	Thiols as interfacial modifiers to enhance the performance and stability of perovskite solar cells. *Nanoscale*, **2015**, 7, 9443-7	7.7	159
162	Polaron self-localization in white-light emitting hybrid perovskites. *Journal of Materials Chemistry C*, **2017**, 5, 2771-2780	7.1	155
161	Unprecedented Ultralow Detection Limit of Amines using a Thiadiazole-Functionalized Zr(IV)-Based Metal-Organic Framework. *Journal of the American Chemical Society*, **2019**, 141, 7245-7249	16.4	139
160	Direct-Indirect Nature of the Bandgap in Lead-Free Perovskite Nanocrystals. *Journal of Physical Chemistry Letters*, **2017**, 8, 3173-3177	6.4	139
159	Room-Temperature Engineering of All-Inorganic Perovskite Nanocrsytals with Different Dimensionalities. *Chemistry of Materials*, **2017**, 29, 8978-8982	9.6	137
158	Molecular behavior of zero-dimensional perovskites. *Science Advances*, **2017**, 3, e1701793	14.3	137

157	Contribution of Metal Defects in the Assembly Induced Emission of Cu Nanoclusters. *Journal of the American Chemical Society*, **2017**, 139, 4318-4321	16.4	123
156	Interfacial Charge Transfer Anisotropy in Polycrystalline Lead Iodide Perovskite Films. *Journal of Physical Chemistry Letters*, **2015**, 6, 1396-402	6.4	112
155	Investigating the Origin of Enhanced C Selectivity in Oxide-/Hydroxide-Derived Copper Electrodes during CO Electroreduction. *Journal of the American Chemical Society*, **2020**, 142, 4213-4222	16.4	109
154	Intrinsic Lead Ion Emissions in Zero-Dimensional Cs4PbBr6 Nanocrystals. *ACS Energy Letters*, **2017**, 2, 2805-2811	20.1	109
153	Excitonic and Polaronic Properties of 2D Hybrid Organic Inorganic Perovskites. *ACS Energy Letters*, **2017**, 2, 417-423	20.1	105
152	Tunable Multipolar Surface Plasmons in 2D TiC T MXene Flakes. *ACS Nano*, **2018**, 12, 8485-8493	16.7	105
151	Point Defects and Green Emission in Zero-Dimensional Perovskites. *Journal of Physical Chemistry Letters*, **2018**, 9, 5490-5495	6.4	103
150	Chlorine Vacancy Passivation in Mixed Halide Perovskite Quantum Dots by Organic Pseudohalides Enables Efficient Rec. 2020 Blue Light-Emitting Diodes. *ACS Energy Letters*, **2020**, 5, 793-798	20.1	100
149	White light emission in low-dimensional perovskites. *Journal of Materials Chemistry C*, **2019**, 7, 4956-4969	7.1	99
148	Monoammonium Porphyrin for Blade-Coating Stable Large-Area Perovskite Solar Cells with >18% Efficiency. *Journal of the American Chemical Society*, **2019**, 141, 6345-6351	16.4	98
147	CsPb Br Single Crystals: Synthesis and Characterization. *ChemSusChem*, **2017**, 10, 3746-3749	8.3	93
146	Enhancing Organic Phosphorescence by Manipulating Heavy-Atom Interaction. *Crystal Growth and Design*, **2016**, 16, 808-813	3.5	86
145	The Benefit and Challenges of Zero-Dimensional Perovskites. *Journal of Physical Chemistry Letters*, **2018**, 9, 4131-4138	6.4	86
144	Extremely reduced dielectric confinement in two-dimensional hybrid perovskites with large polar organics. *Communications Physics*, **2018**, 1,	5.4	84
143	Assembly of Atomically Precise Silver Nanoclusters into Nanocluster-Based Frameworks. *Journal of the American Chemical Society*, **2019**, 141, 9585-9592	16.4	81
142	Ag nanoparticle/ZnO hollow nanosphere arrays: large scale synthesis and surface plasmon resonance effect induced Raman scattering enhancement. *Journal of Materials Chemistry*, **2012**, 22, 7902		78
141	Unlocking the Effect of Trivalent Metal Doping in All-Inorganic CsPbBr3 Perovskite. *ACS Energy Letters*, **2019**, 4, 789-795	20.1	77
140	Halogen Migration in Hybrid Perovskites: The Organic Cation Matters. *Journal of Physical Chemistry Letters*, **2018**, 9, 5474-5480	6.4	77

139	Phase-change-driven dielectric-plasmonic transitions in chalcogenide metasurfaces. *NPG Asia Materials*, **2018**, 10, 533-539	10.3	76
138	Improved stability of perovskite solar cells in ambient air by controlling the mesoporous layer. *Journal of Materials Chemistry A*, **2015**, 3, 16860-16866	13	75
137	Light-Induced Self-Assembly of Cubic CsPbBr3 Perovskite Nanocrystals into Nanowires. *Chemistry of Materials*, **2019**, 31, 6642-6649	9.6	73
136	Pyridine-Induced Dimensionality Change in Hybrid Perovskite Nanocrystals. *Chemistry of Materials*, **2017**, 29, 4393-4400	9.6	68
135	Tuning the optoelectronic properties of 4,4′-N,N′-dicarbazole-biphenyl through heteroatom linkage: new host materials for phosphorescent organic light-emitting diodes. *Organic Letters*, **2010**, 12, 3438-41	6.2	67
134	Conjugated asymmetric donor-substituted 1,3,5-triazines: new host materials for blue phosphorescent organic light-emitting diodes. *Chemistry - A European Journal*, **2011**, 17, 10871-8	4.8	66
133	Layer-Dependent Rashba Band Splitting in 2D Hybrid Perovskites. *Chemistry of Materials*, **2018**, 30, 8538-8545	9.6	66
132	Highly Stable Phosphonate-Based MOFs with Engineered Bandgaps for Efficient Photocatalytic Hydrogen Production. *Advanced Materials*, **2020**, 32, e1906368	24	60
131	Vapor-assisted crystallization control toward high performance perovskite photovoltaics with over 18% efficiency in the ambient atmosphere. *Journal of Materials Chemistry A*, **2016**, 4, 13203-13210	13	59
130	Ultralong Radiative States in Hybrid Perovskite Crystals: Compositions for Submillimeter Diffusion Lengths. *Journal of Physical Chemistry Letters*, **2017**, 8, 4386-4390	6.4	59
129	Exceptional blueshifted and enhanced aggregation-induced emission of conjugated asymmetric triazines and their applications in superamplified detection of explosives. *Chemistry - A European Journal*, **2012**, 18, 15655-61	4.8	56
128	Single Crystals: The Next Big Wave of Perovskite Optoelectronics **2020**, 2, 184-214		56
127	Tuning Hot Carrier Cooling Dynamics by Dielectric Confinement in Two-Dimensional Hybrid Perovskite Crystals. *ACS Nano*, **2019**, 13, 12621-12629	16.7	55
126	Theoretical studies of the structural, electronic, and optical properties of phosphafluorenes. *Journal of Physical Chemistry A*, **2010**, 114, 3655-67	2.8	53
125	Ligand-Free Nanocrystals of Highly Emissive Cs4PbBr6 Perovskite. *Journal of Physical Chemistry C*, **2018**, 122, 6493-6498	3.8	52
124	Layer-edge device of two-dimensional hybrid perovskites. *Nature Communications*, **2018**, 9, 5196	17.4	49
123	Characterization of the Valence and Conduction Band Levels of n = 1 2D Perovskites: A Combined Experimental and Theoretical Investigation. *Advanced Energy Materials*, **2018**, 8, 1703468	21.8	48
122	Carbazole endcapped heterofluorenes as host materials: theoretical study of their structural, electronic, and optical properties. *Physical Chemistry Chemical Physics*, **2010**, 12, 15448-58	3.6	47

121	Facile Synthesis of a Furan-Arylamine Hole-Transporting Material for High-Efficiency, Mesoscopic Perovskite Solar Cells. *Chemistry - A European Journal*, **2015**, 21, 15113-7	4.8	45
120	Visible Range Plasmonic Modes on Topological Insulator Nanostructures. *Advanced Optical Materials*, **2017**, 5, 1600768	8.1	44
119	Defect Passivation in Perovskite Solar Cells by Cyano-Based π-Conjugated Molecules for Improved Performance and Stability. *Advanced Functional Materials*, **2020**, 30, 2002861	15.6	43
118	Plasmonics of topological insulators at optical frequencies. *NPG Asia Materials*, **2017**, 9, e425-e425	10.3	43
117	Concentrated dual-cation electrolyte strategy for aqueous zinc-ion batteries. *Energy and Environmental Science*,	35.4	42
116	Lead-free, stable, high-efficiency (52%) blue luminescent FABiBr perovskite quantum dots. *Nanoscale Horizons*, **2020**, 5, 580-585	10.8	41
115	Plasmonic-enhanced self-cleaning activity on asymmetric Ag/ZnO surface-enhanced Raman scattering substrates under UV and visible light irradiation. *Journal of Materials Chemistry A*, **2014**, 2, 7747-7753	13	40
114	Inner salt-shaped small molecular photosensitizer with extremely enhanced two-photon absorption for mitochondrial-targeted photodynamic therapy. *Chemical Communications*, **2017**, 53, 1680-1683	5.8	38
113	Defect-Triggered Phase Transition in Cesium Lead Halide Perovskite Nanocrystals **2019**, 1, 185-191		37
112	[Cu(PhS)(BuNH)(H)] Reveals the Coexistence of Large Planar Cores and Hemispherical Shells in High-Nuclearity Copper Nanoclusters. *Journal of the American Chemical Society*, **2020**, 142, 8696-8705	16.4	37
111	CsMnBr3: Lead-Free Nanocrystals with High Photoluminescence Quantum Yield and Picosecond Radiative Lifetime **2021**, 3, 290-297		37
110	Effect of the surface-plasmon-exciton coupling and charge transfer process on the photoluminescence of metal-semiconductor nanostructures. *Nanoscale*, **2013**, 5, 4436-42	7.7	35
109	Facile synthesis of a hole transporting material with a silafluorene core for efficient mesoscopic CH3NH3PbI3 perovskite solar cells. *Journal of Materials Chemistry A*, **2016**, 4, 8750-8754	13	34
108	Tellurium-Based Double Perovskites A2TeX6 with Tunable Band Gap and Long Carrier Diffusion Length for Optoelectronic Applications. *ACS Energy Letters*, **2019**, 4, 228-234	20.1	34
107	Modulation of Broadband Emissions in Two-Dimensional <100>-Oriented Ruddlesden–Popper Hybrid Perovskites. *ACS Energy Letters*, **2020**, 5, 2149-2155	20.1	33
106	Compositionally Screened Eutectic Catalytic Coatings on Halide Perovskite Photocathodes for Photoassisted Selective CO2 Reduction. *ACS Energy Letters*, **2019**, 4, 1279-1286	20.1	32
105	Methylamine-Dimer-Induced Phase Transition toward MAPbI Films and High-Efficiency Perovskite Solar Modules. *Journal of the American Chemical Society*, **2020**, 142, 6149-6157	16.4	32
104	Halogen Vacancies Enable Ligand-Assisted Self-Assembly of Perovskite Quantum Dots into Nanowires. *Angewandte Chemie - International Edition*, **2019**, 58, 16077-16081	16.4	32

103	Emergence of multiple fluorophores in individual cesium lead bromide nanocrystals. *Nature Communications*, **2019**, 10, 2930	17.4	31
102	Sulfonate-Assisted Surface Iodide Management for High-Performance Perovskite Solar Cells and Modules. *Journal of the American Chemical Society*, **2021**, 143, 10624-10632	16.4	31
101	Why are Hot Holes Easier to Extract than Hot Electrons from Methylammonium Lead Iodide Perovskite?. *Advanced Energy Materials*, **2019**, 9, 1900084	21.8	30
100	Ag2S Quantum Dots as an Infrared Excited Photocatalyst for Hydrogen Production. *ACS Applied Energy Materials*, **2019**, 2, 2751-2759	6.1	30
99	Successes and Challenges of Core/Shell Lead Halide Perovskite Nanocrystals. *ACS Energy Letters*, **2021**, 6, 1340-1357	20.1	30
98	Self-assembled hollow nanosphere arrays used as low Q whispering gallery mode resonators on thin film solar cells for light trapping. *Physical Chemistry Chemical Physics*, **2013**, 15, 16874-82	3.6	29
97	Br-containing alkyl ammonium salt-enabled scalable fabrication of high-quality perovskite films for efficient and stable perovskite modules. *Journal of Materials Chemistry A*, **2019**, 7, 26849-26857	13	29
96	MAPbI3 Single Crystals Free from Hole-Trapping Centers for Enhanced Photodetectivity. *ACS Energy Letters*, **2019**, 4, 2579-2584	20.1	28
95	Surface Plasmon Enhanced Hot Exciton Emission in Deep UV-Emitting AlGaN Multiple Quantum Wells. *Advanced Optical Materials*, **2014**, 2, 451-458	8.1	28
94	Novel heterofluorene-based hosts for highly efficient blue electrophosphorescence at low operating voltages. *Organic Electronics*, **2011**, 12, 1619-1624	3.5	28
93	Perovskite-Nanosheet Sensitizer for Highly Efficient Organic X-ray Imaging Scintillator. *ACS Energy Letters*,10-16	20.1	28
92	Doping Induces Structural Phase Transitions in All-Inorganic Lead Halide Perovskite Nanocrystals **2020**, 2, 367-375		27
91	Near-unity photoluminescence quantum yield in inorganic perovskite nanocrystals by metal-ion doping. *Journal of Chemical Physics*, **2020**, 152, 020902	3.9	26
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89	Multipole plasmon resonances in self-assembled metal hollow-nanospheres. *Nanoscale*, **2014**, 6, 3934-40	7.7	24
88	Boosting Self-Trapped Emissions in Zero-Dimensional Perovskite Heterostructures. *Chemistry of Materials*, **2020**, 32, 5036-5043	9.6	24
87	Layer-Dependent Coherent Acoustic Phonons in Two-Dimensional Ruddlesden-Popper Perovskite Crystals. *Journal of Physical Chemistry Letters*, **2019**, 10, 5259-5264	6.4	23
86	Theoretical Study of Charge-Transfer Properties of the Stacked Poly(1,1-silafluorene)s. *Journal of Physical Chemistry C*, **2011**, 115, 14778-14785	3.8	23

85	Infrared dielectric metamaterials from high refractive index chalcogenides. *Nature Communications*, **2020**, 11, 1692	17.4	22
84	Perovskite Quantum Dots as Multifunctional Interlayers in Perovskite Solar Cells with Dopant-Free Organic Hole Transporting Layers. *Journal of the American Chemical Society*, **2021**, 143, 5855-5866	16.4	22
83	Trace surface-clean palladium nanosheets as a conductivity enhancer in hole-transporting layers to improve the overall performances of perovskite solar cells. *Nanoscale*, **2016**, 8, 3274-7	7.7	21
82	Charge Redistribution at GaAs/P3HT Heterointerfaces with Different Surface Polarity. *Journal of Physical Chemistry Letters*, **2013**, 4, 3303-3309	6.4	20
81	Self-Optimized Metal□Organic Framework Electrocatalysts with Structural Stability and High Current Tolerance for Water Oxidation. *ACS Catalysis*, **2021**, 11, 7132-7143	13.1	20
80	Femtosecond to Microsecond Dynamics of Soret-Band Excited Corroles. *Journal of Physical Chemistry C*, **2015**, 119, 28691-28700	3.8	19
79	Theoretical study of organic molecules containing N or S atoms as receptors for Hg(II) fluorescent sensors. *Synthetic Metals*, **2012**, 162, 641-649	3.6	19
78	Crown Ether-Assisted Growth and Scaling Up of FACsPbI3 Films for Efficient and Stable Perovskite Solar Modules. *Advanced Functional Materials*, **2021**, 31, 2008760	15.6	19
77	Linked Nickel Oxide/Perovskite Interface Passivation for High-Performance Textured Monolithic Tandem Solar Cells. *Advanced Energy Materials*,2101662	21.8	19
76	Recent Advances on Conductive 2D Covalent Organic Frameworks. *Small*, **2021**, 17, e2006043	11	18
75	Synergetic SERS Enhancement in a Metal-Like/Metal Double-Shell Structure for Sensitive and Stable Application. *ACS Applied Materials & Interfaces*, **2017**, 9, 13564-13570	9.5	17
74	First-Principles Study of the Nuclear Dynamics of Doped Conjugated Polymers. *Journal of Physical Chemistry C*, **2016**, 120, 1994-2001	3.8	17
73	Theory-Guided Synthesis of Highly Luminescent Colloidal Cesium Tin Halide Perovskite Nanocrystals. *Journal of the American Chemical Society*, **2021**, 143, 5470-5480	16.4	17
72	Manipulating crystallization dynamics through chelating molecules for bright perovskite emitters. *Nature Communications*, **2021**, 12, 4831	17.4	16
71	Mapping polarons in polymer FETs by charge modulation microscopy in the mid-infrared. *Scientific Reports*, **2014**, 4, 3626	4.9	15
70	Highly efficient and stable blue-light-emitting binaphthol-fluorene copolymers: A joint experimental and theoretical study of the main-chain chirality. *Journal of Polymer Science Part A*, **2010**, 48, 3868-3879	2.5	15
69	28.2%-efficient, outdoor-stable perovskite/silicon tandem solar cell. *Joule*, **2021**,	27.8	15
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67	Large Polaron Self-Trapped States in Three-Dimensional Metal-Halide Perovskites **2020**, 2, 20-27		15
66	Structure-controlled optical thermoresponse in Ruddlesden-Popper layered perovskites. *APL Materials*, **2018**, 6, 114207	5.7	15
65	Energy Transfer in Metal-Organic Frameworks for Fluorescence Sensing.. *ACS Applied Materials & Interfaces*, **2022**,	9.5	15
64	Extraordinary Carrier Diffusion on CdTe Surfaces Uncovered by 4D Electron Microscopy. *CheM*, **2019**, 5, 706-718	16.2	14
63	Growth-Dynamic-Controllable Rapid Crystallization Boosts the Perovskite PhotovoltaicsORobust Preparation: From Blade Coating to Painting. *ACS Applied Materials & Interfaces*, **2018**, 10, 23103-23111	9.5	14
62	Effect of Zinc-Doping on the Reduction of the Hot-Carrier Cooling Rate in Halide Perovskites. *Angewandte Chemie - International Edition*, **2021**, 60, 10957-10963	16.4	14
61	Halogen Vacancies Enable Ligand-Assisted Self-Assembly of Perovskite Quantum Dots into Nanowires. *Angewandte Chemie*, **2019**, 131, 16223-16227	3.6	13
60	Hydrated MgxV5O12 Cathode with Improved Mg2+ Storage Performance. *Advanced Energy Materials*, **2020**, 10, 2002128	21.8	13
59	Unprecedented Surface Plasmon Modes in Monoclinic MoO Nanostructures. *Advanced Materials*, **2020**, 32, e1908392	24	12
58	[Cu23(PhSe)16(Ph3P)8(H)6]□BF4: Atomic-Level Insights into Cuboidal Polyhydrido Copper Nanoclusters and Their Quasi-simple Cubic Self-Assembly **2021**, 3, 90-99		12
57	Manipulation of the crystallization of perovskite films induced by a rotating magnetic field during blade coating in air. *Journal of Materials Chemistry A*, **2018**, 6, 3986-3995	13	11
56	Manipulation of hot carrier cooling dynamics in two-dimensional Dion-Jacobson hybrid perovskites via Rashba band splitting. *Nature Communications*, **2021**, 12, 3995	17.4	11
55	Reduced ion migration and enhanced photoresponse in cuboid crystals of methylammonium lead iodide perovskite. *Journal Physics D: Applied Physics*, **2019**, 52, 054001	3	11
54	Small-Size Effects on Electron Transfer in P3HT/InP Quantum Dots. *Journal of Physical Chemistry C*, **2015**, 119, 26783-26792	3.8	10
53	Resonance-mediated dynamic modulation of perovskite crystallization for efficient and stable solar cells. *Advanced Materials*, **2021**, e2107111	24	10
52	Luminescence and Stability Enhancement of Inorganic Perovskite Nanocrystals via Selective Surface Ligand Binding. *ACS Nano*, **2021**,	16.7	10
51	Interface Engineering of Cubic Zinc Metatitanate as an Excellent Electron Transport Material for Stable Perovskite Solar Cells. *Solar Rrl*, **2020**, 4, 1900533	7.1	10
50	[Cu (PPh) (PET)] : a Copper Nanocluster with Crystallization Enhanced Photoluminescence. *Small*, **2021**, 17, e2006839	11	10

49	Tunable Twisting Motion of Organic Linkers via Concentration and Hydrogen-Bond Formation. *Journal of Physical Chemistry C*, **2019**, 123, 5900-5906	3.8	10
48	High-mobility patternable MoS2 percolating nanofilms. *Nano Research*, **2020**, 14, 2255	10	9
47	Real-Space Mapping of Surface-Oxygen Defect States in Photovoltaic Materials Using Low-Voltage Scanning Ultrafast Electron Microscopy. *ACS Applied Materials & Interfaces*, **2020**, 12, 7760-7767	9.5	9
46	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. *Nanoscale Research Letters*, **2019**, 14, 213	5	9
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43	Photoresponsive azobenzene ligand as an efficient electron acceptor for luminous CdTe quantum dots. *Journal of Photochemistry and Photobiology A: Chemistry*, **2019**, 375, 48-53	4.7	9
42	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
41	Shining Light on the Structure of Lead Halide Perovskite Nanocrystals **2021**, 3, 845-861		8
40	An Aqueous Mg2+-Based Dual-Ion Battery with High Power Density. *Advanced Functional Materials*,2107537	18.8	8
39	Polarization-Controllable Plasmonic Enhancement on the Optical Response of Two-Dimensional GaSe Layers. *ACS Applied Materials & Interfaces*, **2019**, 11, 19631-19637	9.5	7
38	Multiple coupling in plasmonic metal/dielectric hollow nanocavity arrays for highly sensitive detection. *Nanoscale*, **2015**, 7, 13495-502	7.7	7
37	Interface Matters: Enhanced Photoluminescence and Long-Term Stability of Zero-Dimensional Cesium Lead Bromide Nanocrystals Gas-Phase Aluminum Oxide Encapsulation. *ACS Applied Materials & Interfaces*, **2020**, 12, 35598-35605	9.5	7
36	Luminescent Copper(I) Halides for Optoelectronic Applications. *Physica Status Solidi - Rapid Research Letters*,2100138	2.5	7
35	Modulation of singlet and triplet excited states through spacers in ternary 1,3,5-triazines. *RSC Advances*, **2013**, 3, 13782	3.7	6
34	Unique Reversible Crystal-to-Crystal Phase Transitions, Structural and Functional Properties of Fused Ladder Thienoarenes. *Chemistry of Materials*, **2017**, 29, 7686-7696	9.6	6
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31	Engineering Surface Orientations for Efficient and Stable Hybrid Perovskite Single-Crystal Solar Cells. *ACS Energy Letters*, **2022**, 7, 1544-1552	20.1	6
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29	Visualization of Charge Carrier Trapping in Silicon at the Atomic Surface Level Using Four-Dimensional Electron Imaging. *Journal of Physical Chemistry Letters*, **2019**, 10, 1960-1966	6.4	5
28	Zincophilic Laser-Scribed Graphene Interlayer for Homogeneous Zinc Deposition and Stable Zinc-Ion Batteries. *Energy Technology*, **2021**, 9, 2100490	3.5	5
27	Scalable Preparation of High-Performance ZnO□SnO2 Cascaded Electron Transport Layer for Efficient Perovskite Solar Modules. *Solar Rrl*,2100639	7.1	5
26	A fused thieno[3,2-b]thiophene-dithiophene based donor molecule for organic photovoltaics: a structural comparative study with indacenodithiophene. *Journal of Materials Chemistry C*, **2016**, 4, 9656-9663	7.1	4
25	High-Resolution Printable and Elastomeric Conductors from Strain-Adaptive Assemblies of Metallic Nanoparticles with Low Aspect Ratios. *Small*, **2020**, 16, e2004793	11	4
24	Gentle Materials Need Gentle Fabrication: Encapsulation of Perovskites by Gas-Phase Alumina Deposition. *Journal of Physical Chemistry Letters*, **2021**, 12, 2348-2357	6.4	4
23	Directional Exciton Migration in Benzoimidazole-Based Metal-Organic Frameworks. *Journal of Physical Chemistry Letters*, **2021**, 12, 4917-4927	6.4	4
22	Cascade Electron Transfer Induces Slow Hot Carrier Relaxation in CsPbBr3 Asymmetric Quantum Wells. *ACS Energy Letters*, **2021**, 6, 2602-2609	20.1	4
21	Air-Resistant Lead Halide Perovskite Nanocrystals Embedded into Polyimide of Intrinsic Microporosity. *Energy Material Advances*, **2021**, 2021, 1-9	1	4
20	High-Responsivity Photodetector Based on a Suspended Monolayer Graphene/RbAgI Composite Nanostructure. *ACS Applied Materials & Interfaces*, **2020**, 12, 50763-50771	9.5	3
19	Intriguing Ultrafast Charge Carrier Dynamics in Two-Dimensional Ruddlesden□Popper Hybrid Perovskites. *Journal of Physical Chemistry C*, **2021**, 125, 9630-9637	3.8	3
18	Hyperstable Perovskite Solar Cells Without Ion Migration and Metal Diffusion Based on ZnS Segregated Cubic ZnTiO3 Electron Transport Layers. *Solar Rrl*, **2021**, 5, 2000654	7.1	3
17	Imaging the Reduction of Electron Trap States in Shelled Copper Indium Gallium Selenide Nanocrystals Using Ultrafast Electron Microscopy. *Journal of Physical Chemistry C*, **2018**, 122, 15010-15016	3.8	3
16	Photophysical properties of chirality: Experimental and theoretical studies of (R)- and (S)-binaphthol derivatives as a prototype case. *Chemical Physics*, **2013**, 412, 34-40	2.3	2
15	Interface Engineering of Bi-Fluorescence Molecules for High-Performance Data Encryption and Ultralow UV-Light Detection. *Advanced Optical Materials*,2200417	8.1	2
14	Engineering kesterite based photocathode for photoelectrochemical ammonia synthesis from NO x reduction. *Advanced Materials*,2201670	24	2

List of Publications

13	Light-Trapping Engineering for the Enhancements of Broadband and Spectra-Selective Photodetection by Self-Assembled Dielectric Microcavity Arrays. *Nanoscale Research Letters*, **2019**, 14, 187	5	1
12	Ultrafast charge carrier dynamics in organic (opto)electronic materials **2013**, 318-355		1
11	Scalable Submicron Channel Fabrication by Suspended Nanofiber Lithography for Short-Channel Field-Effect Transistors. *Advanced Functional Materials*,2109254	15.6	1
10	Elastomeric Nanodielectrics for Soft and Hysteresis-Free Electronics. *Advanced Materials*, **2021**, e2104761	24	1
9	Enhancement of Room-Temperature Photoluminescence and Valley Polarization of Monolayer and Bilayer WS via Chiral Plasmonic Coupling. *ACS Applied Materials & Interfaces*, **2021**, 13, 35097-35104	9.5	1
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