

Omar F Mohammed

List of Publications by Year in descending order

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315
papers

33,121
citations

5261

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4427

172
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docs citations

320
times ranked

23998
citing authors

#	ARTICLE	IF	CITATIONS
1	Low trap-state density and long carrier diffusion in organolead trihalide perovskite single crystals. <i>Science</i> , 2015, 347, 519-522.	6.0	4,156
2	High-quality bulk hybrid perovskite single crystals within minutes by inverse temperature crystallization. <i>Nature Communications</i> , 2015, 6, 7586.	5.8	1,478
3	All-inorganic perovskite nanocrystal scintillators. <i>Nature</i> , 2018, 561, 88-93.	13.7	1,274
4	Highly Efficient Perovskite Quantum Light-Emitting Diodes by Surface Engineering. <i>Advanced Materials</i> , 2016, 28, 8718-8725.	11.1	917
5	Managing grains and interfaces via ligand anchoring enables 22.3%-efficiency inverted perovskite solar cells. <i>Nature Energy</i> , 2020, 5, 131-140.	19.8	894
6	Formamidinium Lead Halide Perovskite Crystals with Unprecedented Long Carrier Dynamics and Diffusion Length. <i>ACS Energy Letters</i> , 2016, 1, 32-37.	8.8	752
7	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.	6.6	745
8	State of the Art and Prospects for Halide Perovskite Nanocrystals. <i>ACS Nano</i> , 2021, 15, 10775-10981.	7.3	705
9	CH ₃ NH ₃ PbCl ₃ Single Crystals: Inverse Temperature Crystallization and Visible-Blind UV-Photodetector. <i>Journal of Physical Chemistry Letters</i> , 2015, 6, 3781-3786.	2.1	636
10	Pure Cs ₄ PbBr ₆ : Highly Luminescent Zero-Dimensional Perovskite Solids. <i>ACS Energy Letters</i> , 2016, 1, 840-845.	8.8	481
11	Sequential Proton Transfer Through Water Bridges in Acid-Base Reactions. <i>Science</i> , 2005, 310, 83-86.	6.0	480
12	Air-Stable Surface-Passivated Perovskite Quantum Dots for Ultra-Robust, Single- and Two-Photon-Induced Amplified Spontaneous Emission. <i>Journal of Physical Chemistry Letters</i> , 2015, 6, 5027-5033.	2.1	466
13	Single-Crystal MAPbI ₃ Perovskite Solar Cells Exceeding 21% Power Conversion Efficiency. <i>ACS Energy Letters</i> , 2019, 4, 1258-1259.	8.8	424
14	Engineering Interfacial Charge Transfer in CsPbBr ₃ Perovskite Nanocrystals by Heterovalent Doping. <i>Journal of the American Chemical Society</i> , 2017, 139, 731-737.	6.6	406
15	Metal Halide Perovskites for X-ray Imaging Scintillators and Detectors. <i>ACS Energy Letters</i> , 2021, 6, 739-768.	8.8	403
16	Low-Dimensional-Networked Metal Halide Perovskites: The Next Big Thing. <i>ACS Energy Letters</i> , 2017, 2, 889-896.	8.8	367
17	Inorganic Lead Halide Perovskite Single Crystals: Phase-Selective Low-Temperature Growth, Carrier Transport Properties, and Self-Powered Photodetection. <i>Advanced Optical Materials</i> , 2017, 5, 1600704.	3.6	362
18	Metal Halide Perovskite Nanosheet for X-ray High-Resolution Scintillation Imaging Screens. <i>ACS Nano</i> , 2019, 13, 2520-2525.	7.3	346

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19	Heterovalent Dopant Incorporation for Bandgap and Type Engineering of Perovskite Crystals. <i>Journal of Physical Chemistry Letters</i> , 2016, 7, 295-301.	2.1	332
20	Templated Atomâ€Precise Galvanic Synthesis and Structure Elucidation of a [Ag ₂₄ Au(SR) ₁₈] ⁺ Nanocluster. <i>Angewandte Chemie - International Edition</i> , 2016, 55, 922-926.	7.2	306
21	Zero-Dimensional Cs ₄ PbBr ₆ Perovskite Nanocrystals. <i>Journal of Physical Chemistry Letters</i> , 2017, 8, 961-965.	2.1	299
22	Solutionâ€Grown Monocrystalline Hybrid Perovskite Films for Holeâ€Transporterâ€Free Solar Cells. <i>Advanced Materials</i> , 2016, 28, 3383-3390.	11.1	298
23	Atomic-Level Doping of Metal Clusters. <i>Accounts of Chemical Research</i> , 2018, 51, 3094-3103.	7.6	294
24	Gold Doping of Silver Nanoclusters: A 26â€Fold Enhancement in the Luminescence Quantum Yield. <i>Angewandte Chemie - International Edition</i> , 2016, 55, 5749-5753.	7.2	278
25	Perovskite Oxide SrTiO ₃ as an Efficient Electron Transporter for Hybrid Perovskite Solar Cells. <i>Journal of Physical Chemistry C</i> , 2014, 118, 28494-28501.	1.5	251
26	Ultralow Self-Doping in Two-dimensional Hybrid Perovskite Single Crystals. <i>Nano Letters</i> , 2017, 17, 4759-4767.	4.5	251
27	Giant Photoluminescence Enhancement in CsPbCl ₃ Perovskite Nanocrystals by Simultaneous Dual-Surface Passivation. <i>ACS Energy Letters</i> , 2018, 3, 2301-2307.	8.8	244
28	High-speed colour-converting photodetector with all-inorganic CsPbBr ₃ perovskite nanocrystals for ultraviolet light communication. <i>Light: Science and Applications</i> , 2019, 8, 94.	7.7	225
29	Quantum Dots Supply Bulk- and Surface-Passivation Agents for Efficient and Stable Perovskite Solar Cells. <i>Joule</i> , 2019, 3, 1963-1976.	11.7	222
30	Perovskite Nanocrystals as a Color Converter for Visible Light Communication. <i>ACS Photonics</i> , 2016, 3, 1150-1156.	3.2	221
31	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.	8.8	208
32	Unprecedented Ultralow Detection Limit of Amines using a Thiadiazole-Functionalized Zr(IV)-Based Metalâ€Organic Framework. <i>Journal of the American Chemical Society</i> , 2019, 141, 7245-7249.	6.6	203
33	Concentrated dual-cation electrolyte strategy for aqueous zinc-ion batteries. <i>Energy and Environmental Science</i> , 2021, 14, 4463-4473.	15.6	203
34	Inside Perovskites: Quantum Luminescence from Bulk Cs ₄ PbBr ₆ Single Crystals. <i>Chemistry of Materials</i> , 2017, 29, 7108-7113.	3.2	200
35	Base-Induced Solvent Switches in Acidâ€Base Reactions. <i>Angewandte Chemie - International Edition</i> , 2007, 46, 1458-1461.	7.2	197
36	Ultrathin Cu ₂ O as an efficient inorganic hole transporting material for perovskite solar cells. <i>Nanoscale</i> , 2016, 8, 6173-6179.	2.8	191

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37	Molecular behavior of zero-dimensional perovskites. <i>Science Advances</i> , 2017, 3, e1701793.	4.7	187
38	Tunable Multipolar Surface Plasmons in 2D $\text{Ti}_3\text{C}_2\text{T}_x\text{X}$ MXene Flakes. <i>ACS Nano</i> , 2018, 12, 8485-8493.	7.3	179
39	MXenes for Plasmonic Photodetection. <i>Advanced Materials</i> , 2019, 31, e1807658.	11.1	175
40	Room-Temperature Engineering of All-Inorganic Perovskite Nanocrystals with Different Dimensionalities. <i>Chemistry of Materials</i> , 2017, 29, 8978-8982.	3.2	174
41	Direct-Indirect Nature of the Bandgap in Lead-Free Perovskite Nanocrystals. <i>Journal of Physical Chemistry Letters</i> , 2017, 8, 3173-3177.	2.1	172
42	Low-Temperature Crystallization Enables 21.9% Efficient Single-Crystal MAPb_3 Inverted Perovskite Solar Cells. <i>ACS Energy Letters</i> , 2020, 5, 657-662.	8.8	171
43	Pure crystal orientation and anisotropic charge transport in large-area hybrid perovskite films. <i>Nature Communications</i> , 2016, 7, 13407.	5.8	170
44	Reducing Defects in Halide Perovskite Nanocrystals for Light-Emitting Applications. <i>Journal of Physical Chemistry Letters</i> , 2019, 10, 2629-2640.	2.1	162
45	The Role of Surface Tension in the Crystallization of Metal Halide Perovskites. <i>ACS Energy Letters</i> , 2017, 2, 1782-1788.	8.8	155
46	Engineering of $\text{CH}_3\text{NH}_3\text{Pb}_3$ Perovskite Crystals by Alloying Large Organic Cations for Enhanced Thermal Stability and Transport Properties. <i>Angewandte Chemie - International Edition</i> , 2016, 55, 10686-10690.	7.2	152
47	Contribution of Metal Defects in the Assembly Induced Emission of Cu Nanoclusters. <i>Journal of the American Chemical Society</i> , 2017, 139, 4318-4321.	6.6	152
48	22.8%-Efficient single-crystal mixed-cation inverted perovskite solar cells with a near-optimal bandgap. <i>Energy and Environmental Science</i> , 2021, 14, 2263-2268.	15.6	149
49	Amorphous Tin Oxide as a Low-Temperature-Processed Electron-Transport Layer for Organic and Hybrid Perovskite Solar Cells. <i>ACS Applied Materials & Interfaces</i> , 2017, 9, 11828-11836.	4.0	145
50	Point Defects and Green Emission in Zero-Dimensional Perovskites. <i>Journal of Physical Chemistry Letters</i> , 2018, 9, 5490-5495.	2.1	143
51	Dendritic Tip-on Polytriazine-Based Carbon Nitride Photocatalyst with High Hydrogen Evolution Activity. <i>Chemistry of Materials</i> , 2015, 27, 8237-8247.	3.2	140
52	Surface Restructuring of Hybrid Perovskite Crystals. <i>ACS Energy Letters</i> , 2016, 1, 1119-1126.	8.8	140
53	Extremely reduced dielectric confinement in two-dimensional hybrid perovskites with large polar organics. <i>Communications Physics</i> , 2018, 1, .	2.0	135
54	Intrinsic Lead Ion Emissions in Zero-Dimensional Cs_4PbBr_6 Nanocrystals. <i>ACS Energy Letters</i> , 2017, 2, 2805-2811.	8.8	133

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55	Assembly of Atomically Precise Silver Nanoclusters into Nanocluster-Based Frameworks. <i>Journal of the American Chemical Society</i> , 2019, 141, 9585-9592.	6.6	132
56	Thermochromic Perovskite Inks for Reversible Smart Window Applications. <i>Chemistry of Materials</i> , 2017, 29, 3367-3370.	3.2	130
57	CsPb ₂ Br ₅ Single Crystals: Synthesis and Characterization. <i>ChemSusChem</i> , 2017, 10, 3746-3749.	3.6	130
58	Photoluminescence Origin of Zero-Dimensional Cs ₄ PbBr ₆ Perovskite. <i>ACS Energy Letters</i> , 2020, 5, 87-99.	8.8	128
59	The recombination mechanisms leading to amplified spontaneous emission at the true-green wavelength in CH ₃ NH ₃ PbBr ₃ perovskites. <i>Applied Physics Letters</i> , 2015, 106, .	1.5	126
60	Elucidation of the Intersystem Crossing Mechanism in a Helical BODIPY for Low-Dose Photodynamic Therapy. <i>Angewandte Chemie - International Edition</i> , 2020, 59, 16114-16121.	7.2	126
61	2D Organic-Inorganic Hybrid Thin Films for Flexible UV-Visible Photodetectors. <i>Advanced Functional Materials</i> , 2017, 27, 1605554.	7.8	125
62	Halogen Migration in Hybrid Perovskites: The Organic Cation Matters. <i>Journal of Physical Chemistry Letters</i> , 2018, 9, 5474-5480.	2.1	119
63	Light-Induced Self-Assembly of Cubic CsPbBr ₃ Perovskite Nanocrystals into Nanowires. <i>Chemistry of Materials</i> , 2019, 31, 6642-6649.	3.2	119
64	The Benefit and Challenges of Zero-Dimensional Perovskites. <i>Journal of Physical Chemistry Letters</i> , 2018, 9, 4131-4138.	2.1	118
65	Scanning ultrafast electron microscopy. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2010, 107, 14993-14998.	3.3	117
66	Highly Stable Phosphonate-Based MOFs with Engineered Bandgaps for Efficient Photocatalytic Hydrogen Production. <i>Advanced Materials</i> , 2020, 32, e1906368.	11.1	117
67	Unlocking the Effect of Trivalent Metal Doping in All-Inorganic CsPbBr ₃ Perovskite. <i>ACS Energy Letters</i> , 2019, 4, 789-795.	8.8	116
68	Metal Halide Perovskites for Solar-to-Chemical Fuel Conversion. <i>Advanced Energy Materials</i> , 2020, 10, 1902433.	10.2	115
69	Structural Evolution of the Chromophore in the Primary Stages of Trans/Cis Isomerization in Photoactive Yellow Protein. <i>Journal of the American Chemical Society</i> , 2005, 127, 18100-18106.	6.6	110
70	Energy Transfer in Metal-Organic Frameworks for Fluorescence Sensing. <i>ACS Applied Materials & Interfaces</i> , 2022, 14, 9970-9986.	4.0	109
71	Templated Atomically Precise Galvanic Synthesis and Structure Elucidation of a [Ag ₂₄ Au(SR) ₁₈] ⁺ Nanocluster. <i>Angewandte Chemie</i> , 2016, 128, 934-938.	1.6	106
72	Ultrahigh Carrier Mobility Achieved in Photoresponsive Hybrid Perovskite Films via Coupling with Single-Walled Carbon Nanotubes. <i>Advanced Materials</i> , 2017, 29, 1602432.	11.1	106

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73	Fast Crystallization and Improved Stability of Perovskite Solar Cells with Zn ₂ SnO ₄ Electron Transporting Layer: Interface Matters. ACS Applied Materials & Interfaces, 2015, 7, 28404-28411.	4.0	103
74	Pyridine-Induced Dimensionality Change in Hybrid Perovskite Nanocrystals. Chemistry of Materials, 2017, 29, 4393-4400.	3.2	100
75	Successes and Challenges of Core/Shell Lead Halide Perovskite Nanocrystals. ACS Energy Letters, 2021, 6, 1340-1357.	8.8	100
76	Facile Synthesis and High Performance of a New Carbazole-Based Hole-Transporting Material for Hybrid Perovskite Solar Cells. ACS Photonics, 2015, 2, 849-855.	3.2	99
77	28.2%-efficient, outdoor-stable perovskite/silicon tandem solar cell. Joule, 2021, 5, 3169-3186.	11.7	99
78	Doping-Induced Anisotropic Self-Assembly of Silver Icosahedra in [Pt ₂ Ag ₂₃ Cl ₇ (PPh ₃) ₃] ₁₀ Nanoclusters. Journal of the American Chemical Society, 2017, 139, 1053-1056.	6.6	98
79	Quantum Confinement-Tunable Ultrafast Charge Transfer at the PbS Quantum Dot and Phenyl-C ₆₁ -butyric Acid Methyl Ester Interface. Journal of the American Chemical Society, 2014, 136, 6952-6959.	6.6	97
80	Tuning Hot Carrier Cooling Dynamics by Dielectric Confinement in Two-Dimensional Hybrid Perovskite Crystals. ACS Nano, 2019, 13, 12621-12629.	7.3	96
81	Solvent-Dependent Photoacidity State of Pyranine Monitored by Transient Mid-Infrared Spectroscopy. ChemPhysChem, 2005, 6, 625-636.	1.0	94
82	Layer-Dependent Rashba Band Splitting in 2D Hybrid Perovskites. Chemistry of Materials, 2018, 30, 8538-8545.	3.2	92
83	The Surface of Hybrid Perovskite Crystals: A Boon or Bane. ACS Energy Letters, 2017, 2, 846-856.	8.8	91
84	Single Crystals: The Next Big Wave of Perovskite Optoelectronics. , 2020, 2, 184-214.		89
85	Defect Passivation in Perovskite Solar Cells by Cyano-Based Conjugated Molecules for Improved Performance and Stability. Advanced Functional Materials, 2020, 30, 2002861.	7.8	87
86	CsMnBr ₃ : Lead-Free Nanocrystals with High Photoluminescence Quantum Yield and Picosecond Radiative Lifetime. , 2021, 3, 290-297.		86
87	Large-Area Perovskite-Related Copper Halide Film for High-Resolution Flexible X-ray Imaging Scintillation Screens. ACS Energy Letters, 2022, 7, 844-846.	8.8	86
88	Carrier dynamics of a visible-light-responsive Ta ₃ N ₅ photoanode for water oxidation. Physical Chemistry Chemical Physics, 2015, 17, 2670-2677.	1.3	85
89	4D Scanning Ultrafast Electron Microscopy: Visualization of Materials Surface Dynamics. Journal of the American Chemical Society, 2011, 133, 7708-7711.	6.6	84
90	A Titanium Metal-Organic Framework with Visible-Light-Responsive Photocatalytic Activity. Angewandte Chemie - International Edition, 2020, 59, 13468-13472.	7.2	84

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91	Ultralong Radiative States in Hybrid Perovskite Crystals: Compositions for Submillimeter Diffusion Lengths. <i>Journal of Physical Chemistry Letters</i> , 2017, 8, 4386-4390.	2.1	83
92	Compositional, Processing, and Interfacial Engineering of Nanocrystal- and Quantum-Dot-Based Perovskite Solar Cells. <i>Chemistry of Materials</i> , 2019, 31, 6387-6411.	3.2	82
93	Generation of Multiple Excitons in Ag ₂ S Quantum Dots: Single High-Energy versus Multiple-Photon Excitation. <i>Journal of Physical Chemistry Letters</i> , 2014, 5, 659-665.	2.1	81
94	[Cu ₈₁ (PhS) ₄₆ (t) ₂ BuNH ₂] ₁₀ (H) ₃₂ ³⁺ 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.	6.6	81
95	Water-Induced Dimensionality Reduction in Metal-Halide Perovskites. <i>Journal of Physical Chemistry C</i> , 2018, 122, 14128-14134.	1.5	78
96	Linked Nickel Oxide/Perovskite Interface Passivation for High-Performance Textured Monolithic Tandem Solar Cells. <i>Advanced Energy Materials</i> , 2021, 11, 2101662.	10.2	77
97	Tailoring the Crystal Structure of Nanoclusters Unveiled High Photoluminescence via Ion Pairing. <i>Chemistry of Materials</i> , 2018, 30, 2719-2725.	3.2	76
98	[Cu ₆₁ (S ^t Bu) ₂₆ S ₆ Cl ₆ H ₁₄] ⁺ : A Core-Shell Superatom Nanocluster with a Quasi-J ₃₆ Cu ₁₉ Core and an 18-Crown-6-Metal-Sulfide-like Stabilizing Belt. , 2019, 1, 297-302.		76
99	Modulation of Broadband Emissions in Two-Dimensional 100°-Oriented Ruddlesden-Popper Hybrid Perovskites. <i>ACS Energy Letters</i> , 2020, 5, 2149-2155.	8.8	75
100	Excited-State Dynamics of Nitroperylene in Solution: Solvent and Excitation Wavelength Dependence. <i>Journal of Physical Chemistry A</i> , 2008, 112, 3823-3830.	1.1	74
101	Long-Lived Charge-Transfer State Induced by Spin-Orbit Charge Transfer Intersystem Crossing (SOCT-ISC) in a Compact Spiro Electron Donor/Acceptor Dyad. <i>Angewandte Chemie - International Edition</i> , 2020, 59, 11591-11599.	7.2	74
102	Perovskite-Nanosheet Sensitizer for Highly Efficient Organic X-ray Imaging Scintillator. <i>ACS Energy Letters</i> , 2022, 7, 10-16.	8.8	72
103	Four-Dimensional Ultrafast Electron Microscopy: Insights into an Emerging Technique. <i>ACS Applied Materials & Interfaces</i> , 2017, 9, 3-16.	4.0	71
104	Ultrafast Branching of Reaction Pathways in 2-(2-Hydroxyphenyl)benzothiazole in Polar Acetonitrile Solution. <i>Journal of Physical Chemistry A</i> , 2011, 115, 7550-7558.	1.1	70
105	Zeolite-like Metal-Organic Framework (MOF) Encaged Pt(II)-Porphyrin for Anion-Selective Sensing. <i>ACS Applied Materials & Interfaces</i> , 2018, 10, 11399-11405.	4.0	70
106	Efficient Photon Recycling and Radiation Trapping in Cesium Lead Halide Perovskite Waveguides. <i>ACS Energy Letters</i> , 2018, 3, 1492-1498.	8.8	70
107	Oriented Halide Perovskite Nanostructures and Thin Films for Optoelectronics. <i>Chemical Reviews</i> , 2021, 121, 12112-12180.	23.0	70
108	Excited-State Structure Determination of the Green Fluorescent Protein Chromophore. <i>Journal of the American Chemical Society</i> , 2005, 127, 11214-11215.	6.6	69

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109	Aqueous bimolecular proton transfer in acid–base neutralization. <i>Chemical Physics</i> , 2007, 341, 240-257.	0.9	69
110	Ultrafast electron injection at the cationic porphyrin–graphene interface assisted by molecular flattening. <i>Chemical Communications</i> , 2014, 50, 10452.	2.2	68
111	Study of the Bulk Charge Carrier Dynamics in Anatase and Rutile TiO ₂ Single Crystals by Femtosecond Time-Resolved Spectroscopy. <i>Journal of Physical Chemistry C</i> , 2018, 122, 8925-8932.	1.5	68
112	Nano surface engineering of Mn ₂ O ₃ for potential light-harvesting application. <i>Journal of Materials Chemistry C</i> , 2015, 3, 8200-8211.	2.7	65
113	Direct Femtosecond Observation of Tight and Loose Ion Pairs upon Photoinduced Bimolecular Electron Transfer. <i>Angewandte Chemie - International Edition</i> , 2008, 47, 9044-9048.	7.2	63
114	Ligand-Free Nanocrystals of Highly Emissive Cs ₄ PbBr ₆ Perovskite. <i>Journal of Physical Chemistry C</i> , 2018, 122, 6493-6498.	1.5	63
115	Layer-edge device of two-dimensional hybrid perovskites. <i>Nature Communications</i> , 2018, 9, 5196.	5.8	63
116	Excited-State Intramolecular Hydrogen Transfer (ESIHT) of 1,8-Dihydroxy-9,10-anthraquinone (DHAQ) Characterized by Ultrafast Electronic and Vibrational Spectroscopy and Computational Modeling. <i>Journal of Physical Chemistry A</i> , 2014, 118, 3090-3099.	1.1	62
117	Gold Doping of Silver Nanoclusters: A 26-Fold Enhancement in the Luminescence Quantum Yield. <i>Angewandte Chemie</i> , 2016, 128, 5843-5847.	1.6	62
118	Direct versus ligand-exchange synthesis of [PtAg ₂₈ (BDT) ₁₂ (TPP) ₄] ⁴⁺ nanoclusters: effect of a single-atom dopant on the optoelectronic and chemical properties. <i>Nanoscale</i> , 2017, 9, 9529-9536.	2.8	62
119	Access to Highly Efficient Energy Transfer in Metal–Organic Frameworks via Mixed Linkers Approach. <i>Journal of the American Chemical Society</i> , 2020, 142, 8580-8584.	6.6	62
120	Double Charged Surface Layers in Lead Halide Perovskite Crystals. <i>Nano Letters</i> , 2017, 17, 2021-2027.	4.5	60
121	Solution-Processed Visible-Blind Ultraviolet Photodetectors with Nanosecond Response Time and High Detectivity. <i>Advanced Optical Materials</i> , 2019, 7, 1900506.	3.6	60
122	Efficient Visible-Light Driven Photothermal Conversion of CO ₂ to Methane by Nickel Nanoparticles Supported on Barium Titanate. <i>Advanced Functional Materials</i> , 2021, 31, 2008244.	7.8	60
123	Triplet excited state properties in variable gap π -conjugated donor–acceptor–donor chromophores. <i>Chemical Science</i> , 2016, 7, 3621-3631.	3.7	59
124	Lecithin Capping Ligands Enable Ultrastable Perovskite-Phase CsPbI ₃ Quantum Dots for Rec. 2020 Bright-Red Light-Emitting Diodes. <i>Journal of the American Chemical Society</i> , 2022, 144, 13302-13310.	6.6	59
125	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.	8.8	58
126	Charge Transfer Assisted by Collective Hydrogen-Bonding Dynamics. <i>Angewandte Chemie - International Edition</i> , 2009, 48, 6251-6256.	7.2	56

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127	Reversible Band Gap Narrowing of Sn-Based Hybrid Perovskite Single Crystal with Excellent Phase Stability. <i>Angewandte Chemie - International Edition</i> , 2018, 57, 14868-14872.	7.2	56
128	Compositionally Screened Eutectic Catalytic Coatings on Halide Perovskite Photocathodes for Photoassisted Selective CO ₂ Reduction. <i>ACS Energy Letters</i> , 2019, 4, 1279-1286.	8.8	56
129	Manipulating crystallization dynamics through chelating molecules for bright perovskite emitters. <i>Nature Communications</i> , 2021, 12, 4831.	5.8	56
130	Stimuli-responsive switchable halide perovskites: Taking advantage of instability. <i>Joule</i> , 2021, 5, 2027-2046.	11.7	56
131	Real-Time Observation of Ultrafast Intraband Relaxation and Exciton Multiplication in PbS Quantum Dots. <i>ACS Photonics</i> , 2014, 1, 285-292.	3.2	54
132	Why are Hot Holes Easier to Extract than Hot Electrons from Methylammonium Lead Iodide Perovskite?. <i>Advanced Energy Materials</i> , 2019, 9, 1900084.	10.2	54
133	Robust and air-stable sandwiched organo-lead halide perovskites for photodetector applications. <i>Journal of Materials Chemistry C</i> , 2016, 4, 2545-2552.	2.7	53
134	Structurally Tunable Two-Dimensional Layered Perovskites: From Confinement and Enhanced Charge Transport to Prolonged Hot Carrier Cooling Dynamics. <i>Journal of Physical Chemistry Letters</i> , 2020, 11, 5705-5718.	2.1	53
135	Designed growth and patterning of perovskite nanowires for lasing and wide color gamut phosphors with long-term stability. <i>Nano Energy</i> , 2020, 73, 104801.	8.2	53
136	Nearly 100% energy transfer at the interface of metal-organic frameworks for X-ray imaging scintillators. <i>Matter</i> , 2022, 5, 253-265.	5.0	53
137	Single-step colloidal quantum dot films for infrared solar harvesting. <i>Applied Physics Letters</i> , 2016, 109, .	1.5	52
138	Pillar[5]arene-Stabilized Silver Nanoclusters: Extraordinary Stability and Luminescence Enhancement Induced by Host-Guest Interactions. <i>Angewandte Chemie - International Edition</i> , 2019, 58, 15665-15670.	7.2	52
139	Defect-Triggered Phase Transition in Cesium Lead Halide Perovskite Nanocrystals. , 2019, 1, 185-191.		51
140	[Cu ₁₅ (PPh ₃) ₆ (PET) ₁₃] ²⁺ : a Copper Nanocluster with Crystallization Enhanced Photoluminescence. <i>Small</i> , 2021, 17, e2006839.	5.2	50
141	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.	7.2	50
142	Exciton Self-Trapping for White Emission in 100-Oriented Two-Dimensional Perovskites via Halogen Substitution. <i>ACS Energy Letters</i> , 2022, 7, 453-460.	8.8	50
143	Halogen Vacancies Enable Ligand-Assisted Self-Assembly of Perovskite Quantum Dots into Nanowires. <i>Angewandte Chemie - International Edition</i> , 2019, 58, 16077-16081.	7.2	49
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