Omar F Mohammed

List of Publications by Year
in descending order

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315 papers	33,121 citations	5248 83 h-index	4419 172 g-index
320 all docs	320 docs citations	320 times ranked	23998 citing authors

#	Article	IF	Citations
1	Resonanceâ€Mediated Dynamic Modulation of Perovskite Crystallization for Efficient and Stable Solar Cells. Advanced Materials, 2022, 34, e2107111.	11.1	21
2	Perovskite-Nanosheet Sensitizer for Highly Efficient Organic X-ray Imaging Scintillator. ACS Energy Letters, 2022, 7, 10-16.	8.8	72
3	Nearly 100% energy transfer at the interface of metal-organic frameworks for X-ray imaging scintillators. Matter, 2022, 5, 253-265.	5.0	53
4	Self-Assembly and Regrowth of Metal Halide Perovskite Nanocrystals for Optoelectronic Applications. Accounts of Chemical Research, 2022, 55, 262-274.	7.6	49
5	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
6	Scaled Deposition of Ti₃C₂T_x MXene on Complex Surfaces: Application Assessment as Rear Electrodes for Silicon Heterojunction Solar Cells. ACS Nano, 2022, 16, 2419-2428.	7.3	28
7	Energy Transfer in Metalâ€“Organic Frameworks for Fluorescence Sensing. ACS Applied Materials & Interfaces, 2022, 14, 9970-9986.	4.0	109
8	Engineering Surface Orientations for Efficient and Stable Hybrid Perovskite Single-Crystal Solar Cells. ACS Energy Letters, 2022, 7, 1544-1552.	8.8	24
9	Exciton Self-Trapping for White Emission in 100-Oriented Two-Dimensional Perovskites via Halogen Substitution. ACS Energy Letters, 2022, 7, 453-460.	8.8	50
10	Insight into the role of reduced graphene oxide in enhancing photocatalytic hydrogen evolution in disordered carbon nitride. Physical Chemistry Chemical Physics, 2022, 24, 11213-11221.	1.3	9
11	Interface Engineering of Biâ€Fluorescence Molecules for Highâ€Performance Data Encryption and Ultralow UVâ€Light Detection. Advanced Optical Materials, 2022, 10, .	3.6	5
12	Metalâ€“Organic Frameworks in Mixed-Matrix Membranes for High-Speed Visible-Light Communication. Journal of the American Chemical Society, 2022, 144, 6813-6820.	6.6	23
13	Photoactivated p-Doping of Organic Interlayer Enables Efficient Perovskite/Silicon Tandem Solar Cells. ACS Energy Letters, 2022, 7, 1987-1993.	8.8	14
14	Soft perovskites stabilized by robust heterojunctions. Joule, 2022, 6, 951-952.	11.7	2
15	Multiple exciton generation in tinâ€“lead halide perovskite nanocrystals for photocurrent quantum efficiency enhancement. Nature Photonics, 2022, 16, 485-490.	15.6	40
16	Ultrafast transient infrared spectroscopy for probing trapping states in hybrid perovskite films. Communications Chemistry, 2022, 5, .	2.0	14
17	Visible-Light Copper Nanocluster Catalysis for the Câ€“N Coupling of Aryl Chlorides at Room Temperature. Journal of the American Chemical Society, 2022, 144, 12052-12061.	6.6	37
18	Lecithin Capping Ligands Enable Ultrastable Perovskite-Phase CsPbI₃ Quantum Dots for Rec. 2020 Bright-Red Light-Emitting Diodes. Journal of the American Chemical Society, 2022, 144, 13302-13310.	6.6	59

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19	Efficient Visibleâ€Light Driven Photothermal Conversion of CO₂ to Methane by Nickel Nanoparticles Supported on Barium Titanate. Advanced Functional Materials, 2021, 31, 2008244.	7.8	60
20	[Cu₂₃(PhSe)₁₆(Ph₃P)₈(H)₆]Â·BF₄: Atomic-Level Insights into Cuboidal Polyhydrido Copper Nanoclusters and Their Quasi-simple Cubic Self-Assembly. , 2021, 3, 90-99.		41
21	Twisted BODIPY derivative: intersystem crossing, electron spin polarization and application as a novel photodynamic therapy reagent. Physical Chemistry Chemical Physics, 2021, 23, 8641-8652.	1.3	40
22	Concentrated dual-cation electrolyte strategy for aqueous zinc-ion batteries. Energy and Environmental Science, 2021, 14, 4463-4473.	15.6	203
23	Metal Halide Perovskites for X-ray Imaging Scintillators and Detectors. ACS Energy Letters, 2021, 6, 739-768.	8.8	403
24	Phosphatidylcholine-mediated regulation of growth kinetics for colloidal synthesis of cesium tin halide nanocrystals. Nanoscale, 2021, 13, 16726-16733.	2.8	7
25	Domainâ€Sizeâ€Dependent Residual Stress Governs the Phaseâ€Transition and Photoluminescence Behavior of Methylammonium Lead Iodide. Advanced Functional Materials, 2021, 31, 2008088.	7.8	8
26	CsMnBr₃: Lead-Free Nanocrystals with High Photoluminescence Quantum Yield and Picosecond Radiative Lifetime. , 2021, 3, 290-297.		86
27	Photothermal Catalysis: Efficient Visibleâ€Light Driven Photothermal Conversion of CO₂ to Methane by Nickel Nanoparticles Supported on Barium Titanate (Adv. Funct. Mater. 8/2021). Advanced Functional Materials, 2021, 31, 2170053.	7.8	3
28	Engineering Bandâ€Type Alignment in CsPbBr₃ Perovskiteâ€Based Artificial Multiple Quantum Wells. Advanced Materials, 2021, 33, e2005166.	11.1	12
29	[Ag₉(1,2-BDT)₆]^{3â€“}: How Square-Pyramidal Building Blocks Self-Assemble into the Smallest Silver Nanocluster. Inorganic Chemistry, 2021, 60, 4306-4312.	1.9	16
30	[Cu₁₅(PPh₃)₆(PET)₁₃]²⁺: a Copper Nanocluster with Crystallization Enhanced Photoluminescence. Small, 2021, 17, e2006839.	5.2	50
31	Successes and Challenges of Core/Shell Lead Halide Perovskite Nanocrystals. ACS Energy Letters, 2021, 6, 1340-1357.	8.8	100
32	Effect of Zincâ€Doping on the Reduction of the Hotâ€Carrier Cooling Rate in Halide Perovskites. Angewandte Chemie, 2021, 133, 11052-11058.	1.6	2
33	Effect of Zincâ€Doping on the Reduction of the Hotâ€Carrier Cooling Rate in Halide Perovskites. Angewandte Chemie - International Edition, 2021, 60, 10957-10963.	7.2	50
34	Gentle Materials Need Gentle Fabrication: Encapsulation of Perovskites by Gas-Phase Alumina Deposition. Journal of Physical Chemistry Letters, 2021, 12, 2348-2357.	2.1	8
35	Intriguing Ultrafast Charge Carrier Dynamics in Two-Dimensional Ruddlesdenâ€“Popper Hybrid Perovskites. Journal of Physical Chemistry C, 2021, 125, 9630-9637.	1.5	7
36	Theory-Guided Synthesis of Highly Luminescent Colloidal Cesium Tin Halide Perovskite Nanocrystals. Journal of the American Chemical Society, 2021, 143, 5470-5480.	6.6	49

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37	Energy Spotlight. ACS Energy Letters, 2021, 6, 2003-2005.	8.8	1
38	Shining Light on the Structure of Lead Halide Perovskite Nanocrystals. , 2021, 3, 845-861.		23
39	Luminescent Copper(I) Halides for Optoelectronic Applications. Physica Status Solidi - Rapid Research Letters, 2021, 15, 2100138.	1.2	22
40	Directional Exciton Migration in Benzoimidazole-Based Metalâ€“Organic Frameworks. Journal of Physical Chemistry Letters, 2021, 12, 4917-4927.	2.1	10
41	Manipulation of hot carrier cooling dynamics in two-dimensional Dionâ€“Jacobson hybrid perovskites via Rashba band splitting. Nature Communications, 2021, 12, 3995.	5.8	41
42	State of the Art and Prospects for Halide Perovskite Nanocrystals. ACS Nano, 2021, 15, 10775-10981.	7.3	705
43	Access to Ultrafast Surface and Interface Carrier Dynamics Simultaneously in Space and Time. Journal of Physical Chemistry C, 2021, 125, 14495-14516.	1.5	6
44	Cascade Electron Transfer Induces Slow Hot Carrier Relaxation in CsPbBr₃ Asymmetric Quantum Wells. ACS Energy Letters, 2021, 6, 2602-2609.	8.8	13
45	[Cu₃₆H₁₀(PET)₂₄(PPh₃)₆Cl₂] Reveals Surface Vacancy Defects in Ligand-Stabilized Metal Nanoclusters. Journal of the American Chemical Society, 2021, 143, 11026-11035.	6.6	46
46	Oriented Halide Perovskite Nanostructures and Thin Films for Optoelectronics. Chemical Reviews, 2021, 121, 12112-12180.	23.0	70
47	Air-Resistant Lead Halide Perovskite Nanocrystals Embedded into Polyimide of Intrinsic Microporosity. Energy Material Advances, 2021, 2021, .	4.7	21
48	Chromophore Orientation-Dependent Photophysical Properties of Pyreneâ€“Naphthalimide Compact Electron Donorâ€“Acceptor Dyads: Electron Transfer and Intersystem Crossing. Journal of Physical Chemistry B, 2021, 125, 9244-9259.	1.2	16
49	Experimental and Theoretical Study on the Interchange between Zr and Ti within the MILâ€125â€NH 2 Metal Cluster. Chemistry - an Asian Journal, 2021, 16, 2520-2528.	1.7	5
50	Manipulating crystallization dynamics through chelating molecules for bright perovskite emitters. Nature Communications, 2021, 12, 4831.	5.8	56
51	Stimuli-responsive switchable halide perovskites: Taking advantage of instability. Joule, 2021, 5, 2027-2046.	11.7	56
52	An Aqueous Mg²⁺â€Based Dualâ€ion Battery with High Power Density. Advanced Functional Materials, 2021, 31, 2107523.	7.8	30
53	Linked Nickel Oxide/Perovskite Interface Passivation for Highâ€Performance Textured Monolithic Tandem Solar Cells. Advanced Energy Materials, 2021, 11, 2101662.	10.2	77
54	Single-Particle Spectroscopy as a Versatile Tool to Explore Lower-Dimensional Structures of Inorganic Perovskites. ACS Energy Letters, 2021, 6, 3695-3708.	8.8	6

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55	Spinâ€“Orbit Charge-Transfer Intersystem Crossing of Compact Naphthalenediimide-Carbazole Electron-Donorâ€“Acceptor Triads. Journal of Physical Chemistry B, 2021, 125, 10813-10831.	1.2	14
56	Advances and Challenges in Tin Halide Perovskite Nanocrystals. , 2021, 3, 1541-1557.		12
57	22.8%-Efficient single-crystal mixed-cation inverted perovskite solar cells with a near-optimal bandgap. Energy and Environmental Science, 2021, 14, 2263-2268.	15.6	149
58	Light Propagation and Radiative Exciton Transport in Two-Dimensional Layered Perovskite Microwires. ACS Photonics, 2021, 8, 276-282.	3.2	7
59	Tunable Selectivity in CO₂ Photoâ€Thermal Reduction by Perovskiteâ€Supported Pd Nanoparticles. ChemSusChem, 2021, 14, 5525-5533.	3.6	15
60	Cyanamide Passivation Enables Robust Elemental Imaging of Metal Halide Perovskites at Atomic Resolution. Journal of Physical Chemistry Letters, 2021, 12, 10402-10409.	2.1	15
61	Linked Nickel Oxide/Perovskite Interface Passivation for Highâ€Performance Textured Monolithic Tandem Solar Cells (Adv. Energy Mater. 40/2021). Advanced Energy Materials, 2021, 11, 2170160.	10.2	2
62	Luminescence and Stability Enhancement of Inorganic Perovskite Nanocrystals via Selective Surface Ligand Binding. ACS Nano, 2021, 15, 17998-18005.	7.3	32
63	Ultrafast Aggregation-Induced Tunable Emission Enhancement in a Benzothiadiazole-Based Fluorescent Metalâ€“Organic Framework Linker. Journal of Physical Chemistry B, 2021, 125, 13298-13308.	1.2	5
64	28.2%-efficient, outdoor-stable perovskite/silicon tandem solar cell. Joule, 2021, 5, 3169-3186.	11.7	99
65	Large Polaron Self-Trapped States in Three-Dimensional Metal-Halide Perovskites. , 2020, 2, 20-27.		33
66	Metal Halide Perovskites for Solarâ€toâ€Chemical Fuel Conversion. Advanced Energy Materials, 2020, 10, 1902433.	10.2	115
67	Near-unity photoluminescence quantum yield in inorganic perovskite nanocrystals by metal-ion doping. Journal of Chemical Physics, 2020, 152, 020902.	1.2	42
68	Single Crystals: The Next Big Wave of Perovskite Optoelectronics. , 2020, 2, 184-214.		89
69	Photoluminescence Origin of Zero-Dimensional Cs₄PbBr₆ Perovskite. ACS Energy Letters, 2020, 5, 87-99.	8.8	128
70	Sunlight-Driven Biomass Photorefinery for Coproduction of Sustainable Hydrogen and Value-Added Biochemicals. ACS Sustainable Chemistry and Engineering, 2020, 8, 15772-15781.	3.2	43
71	Hydrated Mg_xV₅O₁₂ Cathode with Improved Mg²⁺ Storage Performance. Advanced Energy Materials, 2020, 10, 2002128.	10.2	31
72	Shape Control of Metal Halide Perovskite Single Crystals: From Bulk to Nanoscale. Chemistry of Materials, 2020, 32, 7602-7617.	3.2	46

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73	Light-Harvesting Two-Photon-Absorbing Polymers. Macromolecules, 2020, 53, 6279-6287.	2.2	9
74	Ultrafast electron imaging of surface charge carrier dynamics at low voltage. Structural Dynamics, 2020, 7, 021001.	0.9	3
75	Longâ€Lived Chargeâ€Transfer State Induced by Spinâ€Orbit Charge Transfer Intersystem Crossing (SOCTâ€ISC) in a Compact Spiro Electron Donor/Acceptor Dyad. Angewandte Chemie, 2020, 132, 11688-11696.	1.6	22
76	Intersystem crossing via charge recombination in a peryleneâ€“naphthalimide compact electron donor/acceptor dyad. Journal of Materials Chemistry C, 2020, 8, 8305-8319.	2.7	28
77	Correlation of Photoluminescence and Structural Morphologies at the Individual Nanoparticle Level. Journal of Physical Chemistry A, 2020, 124, 4855-4860.	1.1	7
78	Modulation of Broadband Emissions in Two-Dimensional âŸ¨100âŸ©-Oriented Ruddlesdenâ€“Popper Hybrid Perovskites. ACS Energy Letters, 2020, 5, 2149-2155.	8.8	75
79	Structurally Tunable Two-Dimensional Layered Perovskites: From Confinement and Enhanced Charge Transport to Prolonged Hot Carrier Cooling Dynamics. Journal of Physical Chemistry Letters, 2020, 11, 5705-5718.	2.1	53
80	Facile and noninvasive passivation, doping and chemical tuning of macroscopic hybrid perovskite crystals. PLoS ONE, 2020, 15, e0230540.	1.1	9
81	Doping Induces Structural Phase Transitions in All-Inorganic Lead Halide Perovskite Nanocrystals. , 2020, 2, 367-375.		42
82	Unprecedented Surface Plasmon Modes in Monoclinic MoO₂ Nanostructures. Advanced Materials, 2020, 32, e1908392.	11.1	28
83	Highly Stable Phosphonateâ€Based MOFs with Engineered Bandgaps for Efficient Photocatalytic Hydrogen Production. Advanced Materials, 2020, 32, e1906368.	11.1	117
84	Interface Matters: Enhanced Photoluminescence and Long-Term Stability of Zero-Dimensional Cesium Lead Bromide Nanocrystals via Gas-Phase Aluminum Oxide Encapsulation. ACS Applied Materials & Interfaces, 2020, 12, 35598-35605.	4.0	14
85	Defect Passivation in Perovskite Solar Cells by Cyanoâ€Based Ïâ€Conjugated Molecules for Improved Performance and Stability. Advanced Functional Materials, 2020, 30, 2002861.	7.8	87
86	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.	8.8	208
87	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.	4.0	12
88	Low-Temperature Crystallization Enables 21.9% Efficient Single-Crystal MAPbI₃ Inverted Perovskite Solar Cells. ACS Energy Letters, 2020, 5, 657-662.	8.8	171
89	Dynamical Interconversion between Excitons and Geminate Charge Pairs in Two-Dimensional Perovskite Layers Described by the Onsagerâ€“Braun Model. Journal of Physical Chemistry Letters, 2020, 11, 1112-1119.	2.1	14
90	Managing grains and interfaces via ligand anchoring enables 22.3%-efficiency inverted perovskite solar cells. Nature Energy, 2020, 5, 131-140.	19.8	894

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91	Longâ€Lived Chargeâ€Transfer State Induced by Spinâ€Orbit Charge Transfer Intersystem Crossing (SOCTâ€ISC) in a Compact Spiro Electron Donor/Acceptor Dyad. Angewandte Chemie - International Edition, 2020, 59, 11591-11599.	7.2	74
92	[Cu₈₁(PhS)₄₆(^tBuNH₂)₁₀(H)₃₂]³⁺ 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.	6.6	81
93	A Titanium Metalâ€“Organic Framework with Visibleâ€Lightâ€Responsive Photocatalytic Activity. Angewandte Chemie - International Edition, 2020, 59, 13468-13472.	7.2	84
94	Designed growth and patterning of perovskite nanowires for lasing and wide color gamut phosphors with long-term stability. Nano Energy, 2020, 73, 104801.	8.2	53
95	Access to Highly Efficient Energy Transfer in Metalâ€“Organic Frameworks via Mixed Linkers Approach. Journal of the American Chemical Society, 2020, 142, 8580-8584.	6.6	62
96	Halide Perovskites: Metal Halide Perovskites for Solarâ€toâ€Chemical Fuel Conversion (Adv. Energy Mater.) Tj ETQq0 0 0 rgBT /Overlock	10.2	13
97	Elucidation of the Intersystem Crossing Mechanism in a Helical BODIPY for Lowâ€Dose Photodynamic Therapy. Angewandte Chemie, 2020, 132, 16248-16255.	1.6	26
98	Elucidation of the Intersystem Crossing Mechanism in a Helical BODIPY for Lowâ€Dose Photodynamic Therapy. Angewandte Chemie - International Edition, 2020, 59, 16114-16121.	7.2	126
99	Boosting Self-Trapped Emissions in Zero-Dimensional Perovskite Heterostructures. Chemistry of Materials, 2020, 32, 5036-5043.	3.2	46
100	Metal Halide Perovskite and Phosphorus Doped g-C₃N₄ Bulk Heterojunctions for Air-Stable Photodetectors. ACS Energy Letters, 2019, 4, 2315-2322.	8.8	36
101	Layer-Dependent Coherent Acoustic Phonons in Two-Dimensional Ruddlesdenâ€“Popper Perovskite Crystals. Journal of Physical Chemistry Letters, 2019, 10, 5259-5264.	2.1	38
102	Impact of the chemical nature and position of spacers on controlling the optical properties of silicon quantum dots. Physical Chemistry Chemical Physics, 2019, 21, 17096-17108.	1.3	3
103	[Cu₆₁(S^tBu)₂₆S₆Cl₆H₁₄]⁺: A Coreâ€“Shell Superatom Nanocluster with a Quasi-J₃₆ Cu₁₉ Core and an â€œ18-Crown-6â€•Metal-Sulfide-like Stabilizing Belt. , 2019, 1, 297-302.		76
104	Emergence of multiple fluorophores in individual cesium lead bromide nanocrystals. Nature Communications, 2019, 10, 2930.	5.8	41
105	Quantum Dots Supply Bulk- and Surface-Passivation Agents for Efficient and Stable Perovskite Solar Cells. Joule, 2019, 3, 1963-1976.	11.7	222
106	Tuning Hot Carrier Cooling Dynamics by Dielectric Confinement in Two-Dimensional Hybrid Perovskite Crystals. ACS Nano, 2019, 13, 12621-12629.	7.3	96
107	Delayed Photoluminescence and Modified Blinking Statistics in Alumina-Encapsulated Zero-Dimensional Inorganic Perovskite Nanocrystals. Journal of Physical Chemistry Letters, 2019, 10, 6780-6787.	2.1	31
108	High-speed colour-converting photodetector with all-inorganic CsPbBr3 perovskite nanocrystals for ultraviolet light communication. Light: Science and Applications, 2019, 8, 94.	7.7	225

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109	Halogen Vacancies Enable Ligandâ€Assisted Selfâ€Assembly of Perovskite Quantum Dots into Nanowires. Angewandte Chemie, 2019, 131, 16223-16227.	1.6	16
110	Halogen Vacancies Enable Ligandâ€Assisted Selfâ€Assembly of Perovskite Quantum Dots into Nanowires. Angewandte Chemie - International Edition, 2019, 58, 16077-16081.	7.2	49
111	Pillar[5]areneâ€Stabilized Silver Nanoclusters: Extraordinary Stability and Luminescence Enhancement Induced by Hostâ€“Guest Interactions. Angewandte Chemie, 2019, 131, 15812-15817.	1.6	7
112	Pillar[5]areneâ€Stabilized Silver Nanoclusters: Extraordinary Stability and Luminescence Enhancement Induced by Hostâ€“Guest Interactions. Angewandte Chemie - International Edition, 2019, 58, 15665-15670.	7.2	52
113	Outstanding Challenges of Zero-Dimensional Perovskite Materials. Journal of Physical Chemistry Letters, 2019, 10, 5886-5888.	2.1	40
114	Relationship between the Photocatalytic Hydrogen Ion Reduction and Charge Carrier Dynamics of Pt/Cd_{1â€“x}Ni_xS Catalysts. Journal of Physical Chemistry C, 2019, 123, 24051-24061.	1.5	3
115	MAPbI₃ Single Crystals Free from Hole-Trapping Centers for Enhanced Photodetectivity. ACS Energy Letters, 2019, 4, 2579-2584.	8.8	40
116	Extraordinary Carrier Diffusion on CdTe Surfaces Uncovered by 4D Electron Microscopy. CheM, 2019, 5, 706-718.	5.8	21
117	Controllable Charge-Transfer Mechanism at Pushâ€“Pull Porphyrin/Nanocarbon Interfaces. Journal of Physical Chemistry C, 2019, 123, 14283-14291.	1.5	10
118	MXenes for Plasmonic Photodetection. Advanced Materials, 2019, 31, e1807658.	11.1	175
119	Solutionâ€Processed Visibleâ€Blind Ultraviolet Photodetectors with Nanosecond Response Time and High Detectivity. Advanced Optical Materials, 2019, 7, 1900506.	3.6	60
120	Assembly of Atomically Precise Silver Nanoclusters into Nanocluster-Based Frameworks. Journal of the American Chemical Society, 2019, 141, 9585-9592.	6.6	132
121	Tuning Soluteâ€Redistribution Dynamics for Scalable Fabrication of Colloidal Quantumâ€Dot Optoelectronics. Advanced Materials, 2019, 31, e1805886.	11.1	28
122	Defect-Triggered Phase Transition in Cesium Lead Halide Perovskite Nanocrystals. , 2019, 1, 185-191.		51
123	Impressive near-infrared brightness and singlet oxygen generation from strategic lanthanideâ€“porphyrin double-decker complexes in aqueous solution. Light: Science and Applications, 2019, 8, 46.	7.7	33
124	Compositionally Screened Eutectic Catalytic Coatings on Halide Perovskite Photocathodes for Photoassisted Selective CO₂ Reduction. ACS Energy Letters, 2019, 4, 1279-1286.	8.8	56
125	Compositional, Processing, and Interfacial Engineering of Nanocrystal- and Quantum-Dot-Based Perovskite Solar Cells. Chemistry of Materials, 2019, 31, 6387-6411.	3.2	82
126	Single-Crystal MAPbI₃ Perovskite Solar Cells Exceeding 21% Power Conversion Efficiency. ACS Energy Letters, 2019, 4, 1258-1259.	8.8	424

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127	Why are Hot Holes Easier to Extract than Hot Electrons from Methylammonium Lead Iodide Perovskite?. Advanced Energy Materials, 2019, 9, 1900084.	10.2	54
128	Perovskite-Based Artificial Multiple Quantum Wells. Nano Letters, 2019, 19, 3535-3542.	4.5	27
129	Reducing Defects in Halide Perovskite Nanocrystals for Light-Emitting Applications. Journal of Physical Chemistry Letters, 2019, 10, 2629-2640.	2.1	162
130	Unprecedented Ultralow Detection Limit of Amines using a Thiadiazole-Functionalized Zr(IV)-Based Metalâ€“Organic Framework. Journal of the American Chemical Society, 2019, 141, 7245-7249.	6.6	203
131	Light-Induced Self-Assembly of Cubic CsPbBr₃ Perovskite Nanocrystals into Nanowires. Chemistry of Materials, 2019, 31, 6642-6649.	3.2	119
132	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.	2.1	8
133	Metal Halide Perovskite Nanosheet for X-ray High-Resolution Scintillation Imaging Screens. ACS Nano, 2019, 13, 2520-2525.	7.3	346
134	Unlocking the Effect of Trivalent Metal Doping in All-Inorganic CsPbBr₃ Perovskite. ACS Energy Letters, 2019, 4, 789-795.	8.8	116
135	Tunable Twisting Motion of Organic Linkers via Concentration and Hydrogen-Bond Formation. Journal of Physical Chemistry C, 2019, 123, 5900-5906.	1.5	14
136	High-Speed Ultraviolet-C Photodetector Based on Frequency Down-Converting CsPbBr3 Perovskite Nanocrystals on Silicon Platform. , 2019, , .		1
137	Reduced ion migration and enhanced photoresponse in cuboid crystals of methylammonium lead iodide perovskite. Journal Physics D: Applied Physics, 2019, 52, 054001.	1.3	14
138	Tellurium-Based Double Perovskites A₂TeX₆ with Tunable Band Gap and Long Carrier Diffusion Length for Optoelectronic Applications. ACS Energy Letters, 2019, 4, 228-234.	8.8	58
139	Boosted CO2 reduction using ultra-thin TiO2 photocatalyst films on nanocavities. , 2019, , .		0
140	(Invited) Perovskite Single Crystals with Free-Hole Trapping Centers for Photodetector and Solar Cell Applications. ECS Meeting Abstracts, 2019, , .	0.0	0
141	Ligand-Free Nanocrystals of Highly Emissive Cs₄PbBr₆ Perovskite. Journal of Physical Chemistry C, 2018, 122, 6493-6498.	1.5	63
142	Study of the Bulk Charge Carrier Dynamics in Anatase and Rutile TiO₂ Single Crystals by Femtosecond Time-Resolved Spectroscopy. Journal of Physical Chemistry C, 2018, 122, 8925-8932.	1.5	68
143	Synthesis and Characterization of Branched fcc/hcp Ruthenium Nanostructures and Their Catalytic Activity in Ammonia Borane Hydrolysis. Crystal Growth and Design, 2018, 18, 1509-1516.	1.4	19
144	On the relationship between rutile/anatase ratio and the nature of defect states in sub-100 nm TiO₂nanostructures: experimental insights. Physical Chemistry Chemical Physics, 2018, 20, 5975-5982.	1.3	23

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145	Solvent-dependent dual fluorescence of the pushâ€“pull system 2-diethylamino-7-nitrofluorene. Physical Chemistry Chemical Physics, 2018, 20, 5942-5951.	1.3	11
146	Imaging Localized Energy States in Silicon-Doped InGaN Nanowires Using 4D Electron Microscopy. ACS Energy Letters, 2018, 3, 476-481.	8.8	15
147	Water-Induced Dimensionality Reduction in Metal-Halide Perovskites. Journal of Physical Chemistry C, 2018, 122, 14128-14134.	1.5	78
148	Tailoring the Crystal Structure of Nanoclusters Unveiled High Photoluminescence via Ion Pairing. Chemistry of Materials, 2018, 30, 2719-2725.	3.2	76
149	Zeolite-like Metalâ€“Organic Framework (MOF) Encaged Pt(II)-Porphyrin for Anion-Selective Sensing. ACS Applied Materials & Interfaces, 2018, 10, 11399-11405.	4.0	70
150	Bidentate Ligand-Passivated CsPbI₃ 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.	6.6	745
151	2D Layered Perovskites: Surface Effect on 2D Hybrid Perovskite Crystals: Perovskites Using an Ethanolamine Organic Layer as an Example (Adv. Mater. 46/2018). Advanced Materials, 2018, 30, 1870351.	11.1	3
152	Extremely reduced dielectric confinement in two-dimensional hybrid perovskites with large polar organics. Communications Physics, 2018, 1, .	2.0	135
153	Atomic-Level Doping of Metal Clusters. Accounts of Chemical Research, 2018, 51, 3094-3103.	7.6	294
154	Layer-edge device of two-dimensional hybrid perovskites. Nature Communications, 2018, 9, 5196.	5.8	63
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