

Omar F Mohammed

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.

301
papers

23,186
citations

73
h-index

146
g-index

320
ext. papers

28,017
ext. citations

11.8
avg. IF

7.24
L-index

#	Paper	IF	Citations
301	Self-Assembly and Regrowth of Metal Halide Perovskite Nanocrystals for Optoelectronic Applications.. <i>Accounts of Chemical Research</i> , 2022 ,	24.3	13
300	Large-Area Perovskite-Related Copper Halide Film for High-Resolution Flexible X-ray Imaging Scintillation Screens. <i>ACS Energy Letters</i> , 2022 , 7, 844-846	20.1	18
299	Energy Transfer in Metal-Organic Frameworks for Fluorescence Sensing.. <i>ACS Applied Materials & Interfaces</i> , 2022 ,	9.5	15
298	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
297	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
296	Soft perovskites stabilized by robust heterojunctions. <i>Joule</i> , 2022 , 6, 951-952	27.8	0
295	Resonance-mediated dynamic modulation of perovskite crystallization for efficient and stable solar cells. <i>Advanced Materials</i> , 2021 , e2107111	24	10
294	Ultrafast Aggregation-Induced Tunable Emission Enhancement in a Benzothiadiazole-Based Fluorescent Metal-Organic Framework Linker. <i>Journal of Physical Chemistry B</i> , 2021 , 125, 13298-13308	3.4	2
293	28.2%-efficient, outdoor-stable perovskite/silicon tandem solar cell. <i>Joule</i> , 2021 ,	27.8	15
292	Nearly 100% energy transfer at the interface of metal-organic frameworks for X-ray imaging scintillators. <i>Matter</i> , 2021 ,	12.7	15
291	Tunable Selectivity in CO Photo-Thermal Reduction by Perovskite-Supported Pd Nanoparticles. <i>ChemSusChem</i> , 2021 ,	8.3	4
290	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
289	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	
288	Luminescence and Stability Enhancement of Inorganic Perovskite Nanocrystals via Selective Surface Ligand Binding. <i>ACS Nano</i> , 2021 ,	16.7	10
287	Light Propagation and Radiative Exciton Transport in Two-Dimensional Layered Perovskite Microwires. <i>ACS Photonics</i> , 2021 , 8, 276-282	6.3	7
286	Engineering Band-Type Alignment in CsPbBr Perovskite-Based Artificial Multiple Quantum Wells. <i>Advanced Materials</i> , 2021 , 33, e2005166	24	1
285	[Ag(1,2-BDT)]: How Square-Pyramidal Building Blocks Self-Assemble into the Smallest Silver Nanocluster. <i>Inorganic Chemistry</i> , 2021 , 60, 4306-4312	5.1	3

284	[Cu (PPh) (PET)] : a Copper Nanocluster with Crystallization Enhanced Photoluminescence. <i>Small</i> , 2021 , 17, e2006839	11	10
283	Successes and Challenges of Core/Shell Lead Halide Perovskite Nanocrystals. <i>ACS Energy Letters</i> , 2021 , 6, 1340-1357	20.1	30
282	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	
281	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
280	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
279	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
278	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
277	Shining Light on the Structure of Lead Halide Perovskite Nanocrystals 2021 , 3, 845-861		8
276	Directional Exciton Migration in Benzoimidazole-Based Metal-Organic Frameworks. <i>Journal of Physical Chemistry Letters</i> , 2021 , 12, 4917-4927	6.4	4
275	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
274	State of the Art and Prospects for Halide Perovskite Nanocrystals. <i>ACS Nano</i> , 2021 , 15, 10775-10981	16.7	222
273	Access to Ultrafast Surface and Interface Carrier Dynamics Simultaneously in Space and Time. <i>Journal of Physical Chemistry C</i> , 2021 , 125, 14495-14516	3.8	0
272	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
271	[CuH(PET)(PPh)Cl] Reveals Surface Vacancy Defects in Ligand-Stabilized Metal Nanoclusters. <i>Journal of the American Chemical Society</i> , 2021 , 143, 11026-11035	16.4	7
270	Oriented Halide Perovskite Nanostructures and Thin Films for Optoelectronics. <i>Chemical Reviews</i> , 2021 , 121, 12112-12180	68.1	25
269	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	15.6	22
268	[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
267	Twisted BODIPY derivative: intersystem crossing, electron spin polarization and application as a novel photodynamic therapy reagent. <i>Physical Chemistry Chemical Physics</i> , 2021 , 23, 8641-8652	3.6	13

266	Metal Halide Perovskites for X-ray Imaging Scintillators and Detectors. <i>ACS Energy Letters</i> , 2021 , 6, 739-768	12.7	127
265	Phosphatidylcholine-mediated regulation of growth kinetics for colloidal synthesis of cesium tin halide nanocrystals. <i>Nanoscale</i> , 2021 , 13, 16726-16733	7.7	1
264	Domain-Size-Dependent Residual Stress Governs the Phase-Transition and Photoluminescence Behavior of Methylammonium Lead Iodide. <i>Advanced Functional Materials</i> , 2021 , 31, 2008088	15.6	3
263	CsMnBr ₃ : Lead-Free Nanocrystals with High Photoluminescence Quantum Yield and Picosecond Radiative Lifetime 2021 , 3, 290-297		37
262	Photothermal Catalysis: Efficient Visible-Light Driven Photothermal Conversion of CO ₂ to Methane by Nickel Nanoparticles Supported on Barium Titanate (Adv. Funct. Mater. 8/2021). <i>Advanced Functional Materials</i> , 2021 , 31, 2170053	15.6	2
261	Air-Resistant Lead Halide Perovskite Nanocrystals Embedded into Polyimide of Intrinsic Microporosity. <i>Energy Material Advances</i> , 2021 , 2021, 1-9	1	4
260	Chromophore Orientation-Dependent Photophysical Properties of Pyrene-Naphthalimide Compact Electron Donor-Acceptor Dyads: Electron Transfer and Intersystem Crossing. <i>Journal of Physical Chemistry B</i> , 2021 , 125, 9244-9259	3.4	3
259	Experimental and Theoretical Study on the Interchange between Zr and Ti within the MIL-125-NH Metal Cluster. <i>Chemistry - an Asian Journal</i> , 2021 , 16, 2520-2528	4.5	2
258	Manipulating crystallization dynamics through chelating molecules for bright perovskite emitters. <i>Nature Communications</i> , 2021 , 12, 4831	17.4	16
257	Stimuli-responsive switchable halide perovskites: Taking advantage of instability. <i>Joule</i> , 2021 , 5, 2027-2046	14.8	13
256	Spin-Orbit Charge-Transfer Intersystem Crossing of Compact Naphthalenediimide-Carbazole Electron-Donor-Acceptor Triads. <i>Journal of Physical Chemistry B</i> , 2021 , 125, 10813-10831	3.4	3
255	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	35.4	64
254	Ultrafast electron imaging of surface charge carrier dynamics at low voltage. <i>Structural Dynamics</i> , 2020 , 7, 021001	3.2	2
253	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</i> , 2020 , 132, 11688-11696	13.6	9
252	Intersystem crossing via charge recombination in a perylenebaphthalimide compact electron donor/acceptor dyad. <i>Journal of Materials Chemistry C</i> , 2020 , 8, 8305-8319	7.1	15
251	Correlation of Photoluminescence and Structural Morphologies at the Individual Nanoparticle Level. <i>Journal of Physical Chemistry A</i> , 2020 , 124, 4855-4860	2.8	4
250	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
249	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	6.4	27

248	Facile and noninvasive passivation, doping and chemical tuning of macroscopic hybrid perovskite crystals. <i>PLoS ONE</i> , 2020 , 15, e0230540	3.7	3
247	Doping Induces Structural Phase Transitions in All-Inorganic Lead Halide Perovskite Nanocrystals 2020 , 2, 367-375		27
246	Unprecedented Surface Plasmon Modes in Monoclinic MoO Nanostructures. <i>Advanced Materials</i> , 2020 , 32, e1908392	24	12
245	Highly Stable Phosphonate-Based MOFs with Engineered Bandgaps for Efficient Photocatalytic Hydrogen Production. <i>Advanced Materials</i> , 2020 , 32, e1906368	24	60
244	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
243	Defect Passivation in Perovskite Solar Cells by Cyano-Based π -Conjugated Molecules for Improved Performance and Stability. <i>Advanced Functional Materials</i> , 2020 , 30, 2002861	15.6	43
242	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
241	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
240	Low-Temperature Crystallization Enables 21.9% Efficient Single-Crystal MAPbI ₃ Inverted Perovskite Solar Cells. <i>ACS Energy Letters</i> , 2020 , 5, 657-662	20.1	96
239	Dynamical Interconversion between Excitons and Geminate Charge Pairs in Two-Dimensional Perovskite Layers Described by the Onsager-Braun Model. <i>Journal of Physical Chemistry Letters</i> , 2020 , 11, 1112-1119	6.4	8
238	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
237	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	16.4	32
236	[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
235	Boosting Self-Trapped Emissions in Zero-Dimensional Perovskite Heterostructures. <i>Chemistry of Materials</i> , 2020 , 32, 5036-5043	9.6	24
234	Large Polaron Self-Trapped States in Three-Dimensional Metal-Halide Perovskites 2020 , 2, 20-27		15
233	Metal Halide Perovskites for Solar-to-Chemical Fuel Conversion. <i>Advanced Energy Materials</i> , 2020 , 10, 1902433	21.8	75
232	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
231	Single Crystals: The Next Big Wave of Perovskite Optoelectronics 2020 , 2, 184-214		56

- 230 Photoluminescence Origin of Zero-Dimensional Cs₄PbBr₆ Perovskite. *ACS Energy Letters*, **2020**, *5*, 87-99 20.1 62
- 229 Sunlight-Driven Biomass Photorefinery for Coproduction of Sustainable Hydrogen and Value-Added Biochemicals. *ACS Sustainable Chemistry and Engineering*, **2020**, *8*, 15772-15781 8.3 14
- 228 Hydrated Mg_xV₅O₁₂ Cathode with Improved Mg²⁺ Storage Performance. *Advanced Energy Materials*, **2020**, *10*, 2002128 21.8 13
- 227 Shape Control of Metal Halide Perovskite Single Crystals: From Bulk to Nanoscale. *Chemistry of Materials*, **2020**, *32*, 7602-7617 9.6 30
- 226 Light-Harvesting Two-Photon-Absorbing Polymers. *Macromolecules*, **2020**, *53*, 6279-6287 5.5 2
- 225 A Titanium Metal-Organic Framework with Visible-Light-Responsive Photocatalytic Activity. *Angewandte Chemie - International Edition*, **2020**, *59*, 13468-13472 16.4 33
- 224 Designed growth and patterning of perovskite nanowires for lasing and wide color gamut phosphors with long-term stability. *Nano Energy*, **2020**, *73*, 104801 17.1 39
- 223 Access to Highly Efficient Energy Transfer in Metal-Organic Frameworks via Mixed Linkers Approach. *Journal of the American Chemical Society*, **2020**, *142*, 8580-8584 16.4 34
- 222 Halide Perovskites: Metal Halide Perovskites for Solar-to-Chemical Fuel Conversion (Adv. Energy Mater. 13/2020). *Advanced Energy Materials*, **2020**, *10*, 2070059 21.8 7
- 221 Elucidation of the Intersystem Crossing Mechanism in a Helical BODIPY for Low-Dose Photodynamic Therapy. *Angewandte Chemie*, **2020**, *132*, 16248-16255 3.6 9
- 220 Elucidation of the Intersystem Crossing Mechanism in a Helical BODIPY for Low-Dose Photodynamic Therapy. *Angewandte Chemie - International Edition*, **2020**, *59*, 16114-16121 16.4 55
- 219 Pillar[5]arene-Stabilized Silver Nanoclusters: Extraordinary Stability and Luminescence Enhancement Induced by Host-Guest Interactions. *Angewandte Chemie*, **2019**, *131*, 15812-15817 3.6 5
- 218 Pillar[5]arene-Stabilized Silver Nanoclusters: Extraordinary Stability and Luminescence Enhancement Induced by Host-Guest Interactions. *Angewandte Chemie - International Edition*, **2019**, *58*, 15665-15670 16.4 26
- 217 Outstanding Challenges of Zero-Dimensional Perovskite Materials. *Journal of Physical Chemistry Letters*, **2019**, *10*, 5886-5888 6.4 26
- 216 Relationship between the Photocatalytic Hydrogen Ion Reduction and Charge Carrier Dynamics of Pt/Cd_{1-x}Ni_xS Catalysts. *Journal of Physical Chemistry C*, **2019**, *123*, 24051-24061 3.8 1
- 215 MAPbI₃ Single Crystals Free from Hole-Trapping Centers for Enhanced Photodetectivity. *ACS Energy Letters*, **2019**, *4*, 2579-2584 20.1 28
- 214 Extraordinary Carrier Diffusion on CdTe Surfaces Uncovered by 4D Electron Microscopy. *Chem*, **2019**, *5*, 706-718 16.2 14
- 213 Controllable Charge-Transfer Mechanism at PushPull Porphyrin/Nanocarbon Interfaces. *Journal of Physical Chemistry C*, **2019**, *123*, 14283-14291 3.8 3

212	MXenes for Plasmonic Photodetection. <i>Advanced Materials</i> , 2019 , 31, e1807658	24	90
211	Solution-Processed Visible-Blind Ultraviolet Photodetectors with Nanosecond Response Time and High Detectivity. <i>Advanced Optical Materials</i> , 2019 , 7, 1900506	8.1	40
210	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
209	Tuning Solute-Redistribution Dynamics for Scalable Fabrication of Colloidal Quantum-Dot Optoelectronics. <i>Advanced Materials</i> , 2019 , 31, e1805886	24	20
208	Defect-Triggered Phase Transition in Cesium Lead Halide Perovskite Nanocrystals 2019 , 1, 185-191		37
207	Impressive near-infrared brightness and singlet oxygen generation from strategic lanthanide-porphyrin double-decker complexes in aqueous solution. <i>Light: Science and Applications</i> , 2019 , 8, 46	16.7	23
206	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
205	Compositional, Processing, and Interfacial Engineering of Nanocrystal- and Quantum-Dot-Based Perovskite Solar Cells. <i>Chemistry of Materials</i> , 2019 , 31, 6387-6411	9.6	66
204	Single-Crystal MAPbI ₃ Perovskite Solar Cells Exceeding 21% Power Conversion Efficiency. <i>ACS Energy Letters</i> , 2019 , 4, 1258-1259	20.1	291
203	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
202	Perovskite-Based Artificial Multiple Quantum Wells. <i>Nano Letters</i> , 2019 , 19, 3535-3542	11.5	17
201	Reducing Defects in Halide Perovskite Nanocrystals for Light-Emitting Applications. <i>Journal of Physical Chemistry Letters</i> , 2019 , 10, 2629-2640	6.4	122
200	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
199	Light-Induced Self-Assembly of Cubic CsPbBr ₃ Perovskite Nanocrystals into Nanowires. <i>Chemistry of Materials</i> , 2019 , 31, 6642-6649	9.6	73
198	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
197	Metal Halide Perovskite Nanosheet for X-ray High-Resolution Scintillation Imaging Screens. <i>ACS Nano</i> , 2019 , 13, 2520-2525	16.7	218
196	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
195	Metal Halide Perovskite and Phosphorus Doped g-C ₃ N ₄ Bulk Heterojunctions for Air-Stable Photodetectors. <i>ACS Energy Letters</i> , 2019 , 4, 2315-2322	20.1	23

194	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
193	Impact of the chemical nature and position of spacers on controlling the optical properties of silicon quantum dots. <i>Physical Chemistry Chemical Physics</i> , 2019 , 21, 17096-17108	3.6	2
192	[Cu ₆₁ (StBu) ₂₆ S ₆ Cl ₆ H ₁₄] ⁺ : A Core-Shell Superatom Nanocluster with a Quasi-J36 Cu ₁₉ Core and an 18-Crown-6-Metal-Sulfide-like Stabilizing Belt 2019 , 1, 297-302		37
191	Emergence of multiple fluorophores in individual cesium lead bromide nanocrystals. <i>Nature Communications</i> , 2019 , 10, 2930	17.4	31
190	Quantum Dots Supply Bulk- and Surface-Passivation Agents for Efficient and Stable Perovskite Solar Cells. <i>Joule</i> , 2019 , 3, 1963-1976	27.8	154
189	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
188	Delayed Photoluminescence and Modified Blinking Statistics in Alumina-Encapsulated Zero-Dimensional Inorganic Perovskite Nanocrystals. <i>Journal of Physical Chemistry Letters</i> , 2019 , 10, 6780-6787	6.4	21
187	High-speed colour-converting photodetector with all-inorganic CsPbBr perovskite nanocrystals for ultraviolet light communication. <i>Light: Science and Applications</i> , 2019 , 8, 94	16.7	125
186	Halogen Vacancies Enable Ligand-Assisted Self-Assembly of Perovskite Quantum Dots into Nanowires. <i>Angewandte Chemie</i> , 2019 , 131, 16223-16227	3.6	13
185	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
184	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
183	High-Speed Ultraviolet-C Photodetector Based on Frequency Down-Converting CsPbBr ₃ Perovskite Nanocrystals on Silicon Platform 2019 ,		1
182	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
181	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
180	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
179	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	3.8	41
178	Synthesis and Characterization of Branched fcc/hcp Ruthenium Nanostructures and Their Catalytic Activity in Ammonia Borane Hydrolysis. <i>Crystal Growth and Design</i> , 2018 , 18, 1509-1516	3.5	15
177	On the relationship between rutile/anatase ratio and the nature of defect states in sub-100 nm TiO nanostructures: experimental insights. <i>Physical Chemistry Chemical Physics</i> , 2018 , 20, 5975-5982	3.6	20

176	Solvent-dependent dual fluorescence of the push-pull system 2-diethylamino-7-nitrofluorene. <i>Physical Chemistry Chemical Physics</i> , 2018 , 20, 5942-5951	3.6	8
175	Imaging Localized Energy States in Silicon-Doped InGaN Nanowires Using 4D Electron Microscopy. <i>ACS Energy Letters</i> , 2018 , 3, 476-481	20.1	11
174	Water-Induced Dimensionality Reduction in Metal-Halide Perovskites. <i>Journal of Physical Chemistry C</i> , 2018 , 122, 14128-14134	3.8	56
173	Tailoring the Crystal Structure of Nanoclusters Unveiled High Photoluminescence via Ion Pairing. <i>Chemistry of Materials</i> , 2018 , 30, 2719-2725	9.6	60
172	Zeolite-like Metal-Organic Framework (MOF) Encaged Pt(II)-Porphyrin for Anion-Selective Sensing. <i>ACS Applied Materials & Interfaces</i> , 2018 , 10, 11399-11405	9.5	56
171	Scanning ultrafast electron microscopy: Four-dimensional imaging of materials dynamics in space and time. <i>MRS Bulletin</i> , 2018 , 43, 491-496	3.2	13
170	Tunable Multipolar Surface Plasmons in 2D TiC T MXene Flakes. <i>ACS Nano</i> , 2018 , 12, 8485-8493	16.7	105
169	All-inorganic perovskite nanocrystal scintillators. <i>Nature</i> , 2018 , 561, 88-93	50.4	773
168	Bidentate Ligand-Passivated CsPbI 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
167	2D Layered Perovskites: Surface Effect on 2D Hybrid Perovskite Crystals: Perovskites Using an Ethanolamine Organic Layer as an Example (Adv. Mater. 46/2018). <i>Advanced Materials</i> , 2018 , 30, 1870351-4	24	3
166	Extremely reduced dielectric confinement in two-dimensional hybrid perovskites with large polar organics. <i>Communications Physics</i> , 2018 , 1,	5.4	84
165	Atomic-Level Doping of Metal Clusters. <i>Accounts of Chemical Research</i> , 2018 , 51, 3094-3103	24.3	185
164	Layer-edge device of two-dimensional hybrid perovskites. <i>Nature Communications</i> , 2018 , 9, 5196	17.4	49
163	Ultrathin-Film Titania Photocatalyst on Nanocavity for CO Reduction with Boosted Catalytic Efficiencies. <i>Global Challenges</i> , 2018 , 2, 1800032	4.3	5
162	Surface Effect on 2D Hybrid Perovskite Crystals: Perovskites Using an Ethanolamine Organic Layer as an Example. <i>Advanced Materials</i> , 2018 , 30, e1804372	24	29
161	Reversible Band Gap Narrowing of Sn-Based Hybrid Perovskite Single Crystal with Excellent Phase Stability. <i>Angewandte Chemie</i> , 2018 , 130, 15084-15088	3.6	13
160	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	16.4	35
159	Layer-Dependent Rashba Band Splitting in 2D Hybrid Perovskites. <i>Chemistry of Materials</i> , 2018 , 30, 8538-8545	35.45	66

158	Halogen Migration in Hybrid Perovskites: The Organic Cation Matters. <i>Journal of Physical Chemistry Letters</i> , 2018 , 9, 5474-5480	6.4	77
157	Point Defects and Green Emission in Zero-Dimensional Perovskites. <i>Journal of Physical Chemistry Letters</i> , 2018 , 9, 5490-5495	6.4	103
156	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
155	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	2.8	3
154	Efficient Photon Recycling and Radiation Trapping in Cesium Lead Halide Perovskite Waveguides. <i>ACS Energy Letters</i> , 2018 , 3, 1492-1498	20.1	56
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4	Advances and Challenges in Tin Halide Perovskite Nanocrystals	1541-1557	3
3	Interface Engineering of Bi-Fluorescence Molecules for High-Performance Data Encryption and Ultralow UV-Light Detection. <i>Advanced Optical Materials</i> , 2200417	8.1	2
2	Photoactivated p-Doping of Organic Interlayer Enables Efficient Perovskite/Silicon Tandem Solar Cells. <i>ACS Energy Letters</i> , 1987-1993	20.1	4
1	Multiple exciton generation in tin lead halide perovskite nanocrystals for photocurrent quantum efficiency enhancement. <i>Nature Photonics</i> ,	33.9	6