

# Omar F Mohammed

## List of Publications by Citations

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301  
papers

23,186  
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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	Solar cells. Low trap-state density and long carrier diffusion in organolead trihalide perovskite single crystals. <i>Science</i> , <b>2015</b> , 347, 519-22	33.3	3307
300	High-quality bulk hybrid perovskite single crystals within minutes by inverse temperature crystallization. <i>Nature Communications</i> , <b>2015</b> , 6, 7586	17.4	1164
299	All-inorganic perovskite nanocrystal scintillators. <i>Nature</i> , <b>2018</b> , 561, 88-93	50.4	773
298	Highly Efficient Perovskite-Quantum-Dot Light-Emitting Diodes by Surface Engineering. <i>Advanced Materials</i> , <b>2016</b> , 28, 8718-8725	24	700
297	Managing grains and interfaces via ligand anchoring enables 22.3%-efficiency inverted perovskite solar cells. <i>Nature Energy</i> , <b>2020</b> , 5, 131-140	62.3	552
296	Formamidinium Lead Halide Perovskite Crystals with Unprecedented Long Carrier Dynamics and Diffusion Length. <i>ACS Energy Letters</i> , <b>2016</b> , 1, 32-37	20.1	551
295	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> , <b>2018</b> , 140, 562-565	16.4	537
294	CH <sub>3</sub> NH <sub>3</sub> PbCl <sub>3</sub> Single Crystals: Inverse Temperature Crystallization and Visible-Blind UV-Photodetector. <i>Journal of Physical Chemistry Letters</i> , <b>2015</b> , 6, 3781-6	6.4	507
293	Sequential proton transfer through water bridges in acid-base reactions. <i>Science</i> , <b>2005</b> , 310, 83-6	33.3	435
292	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> , <b>2015</b> , 6, 5027-33	6.4	398
291	Pure Cs <sub>4</sub> PbBr <sub>6</sub> : Highly Luminescent Zero-Dimensional Perovskite Solids. <i>ACS Energy Letters</i> , <b>2016</b> , 1, 840-845	20.1	367
290	Engineering Interfacial Charge Transfer in CsPbBr Perovskite Nanocrystals by Heterovalent Doping. <i>Journal of the American Chemical Society</i> , <b>2017</b> , 139, 731-737	16.4	323
289	Single-Crystal MAPbI <sub>3</sub> Perovskite Solar Cells Exceeding 21% Power Conversion Efficiency. <i>ACS Energy Letters</i> , <b>2019</b> , 4, 1258-1259	20.1	291
288	Low-Dimensional-Networked Metal Halide Perovskites: The Next Big Thing. <i>ACS Energy Letters</i> , <b>2017</b> , 2, 889-896	20.1	288
287	Inorganic Lead Halide Perovskite Single Crystals: Phase-Selective Low-Temperature Growth, Carrier Transport Properties, and Self-Powered Photodetection. <i>Advanced Optical Materials</i> , <b>2017</b> , 5, 1600704	8.1	277
286	Heterovalent Dopant Incorporation for Bandgap and Type Engineering of Perovskite Crystals. <i>Journal of Physical Chemistry Letters</i> , <b>2016</b> , 7, 295-301	6.4	268
285	Templated Atom-Precise Galvanic Synthesis and Structure Elucidation of a [Ag <sub>24</sub> Au(SR) <sub>18</sub> ] <sup>(-)</sup> Nanocluster. <i>Angewandte Chemie - International Edition</i> , <b>2016</b> , 55, 922-6	16.4	252

284	Solution-Grown Monocrystalline Hybrid Perovskite Films for Hole-Transporter-Free Solar Cells. <i>Advanced Materials</i> , <b>2016</b> , 28, 3383-90	24	238
283	Zero-Dimensional CsPbBr Perovskite Nanocrystals. <i>Journal of Physical Chemistry Letters</i> , <b>2017</b> , 8, 961-965	5.4	229
282	State of the Art and Prospects for Halide Perovskite Nanocrystals. <i>ACS Nano</i> , <b>2021</b> , 15, 10775-10981	16.7	222
281	Metal Halide Perovskite Nanosheet for X-ray High-Resolution Scintillation Imaging Screens. <i>ACS Nano</i> , <b>2019</b> , 13, 2520-2525	16.7	218
280	Gold Doping of Silver Nanoclusters: A 26-Fold Enhancement in the Luminescence Quantum Yield. <i>Angewandte Chemie - International Edition</i> , <b>2016</b> , 55, 5749-53	16.4	218
279	Perovskite Oxide SrTiO <sub>3</sub> as an Efficient Electron Transporter for Hybrid Perovskite Solar Cells. <i>Journal of Physical Chemistry C</i> , <b>2014</b> , 118, 28494-28501	3.8	209
278	Ultralow Self-Doping in Two-dimensional Hybrid Perovskite Single Crystals. <i>Nano Letters</i> , <b>2017</b> , 17, 4759-4767	11.5	202
277	Giant Photoluminescence Enhancement in CsPbCl <sub>3</sub> Perovskite Nanocrystals by Simultaneous Dual-Surface Passivation. <i>ACS Energy Letters</i> , <b>2018</b> , 3, 2301-2307	20.1	189
276	Atomic-Level Doping of Metal Clusters. <i>Accounts of Chemical Research</i> , <b>2018</b> , 51, 3094-3103	24.3	185
275	Base-induced solvent switches in acid-base reactions. <i>Angewandte Chemie - International Edition</i> , <b>2007</b> , 46, 1458-61	16.4	177
274	Perovskite Nanocrystals as a Color Converter for Visible Light Communication. <i>ACS Photonics</i> , <b>2016</b> , 3, 1150-1156	6.3	171
273	Inside Perovskites: Quantum Luminescence from Bulk Cs <sub>4</sub> PbBr <sub>6</sub> Single Crystals. <i>Chemistry of Materials</i> , <b>2017</b> , 29, 7108-7113	9.6	160
272	Ultrathin Cu <sub>2</sub> O as an efficient inorganic hole transporting material for perovskite solar cells. <i>Nanoscale</i> , <b>2016</b> , 8, 6173-9	7.7	157
271	Quantum Dots Supply Bulk- and Surface-Passivation Agents for Efficient and Stable Perovskite Solar Cells. <i>Joule</i> , <b>2019</b> , 3, 1963-1976	27.8	154
270	Pure crystal orientation and anisotropic charge transport in large-area hybrid perovskite films. <i>Nature Communications</i> , <b>2016</b> , 7, 13407	17.4	140
269	Unprecedented Ultralow Detection Limit of Amines using a Thiadiazole-Functionalized Zr(IV)-Based Metal-Organic Framework. <i>Journal of the American Chemical Society</i> , <b>2019</b> , 141, 7245-7249	16.4	139
268	Direct-Indirect Nature of the Bandgap in Lead-Free Perovskite Nanocrystals. <i>Journal of Physical Chemistry Letters</i> , <b>2017</b> , 8, 3173-3177	6.4	139
267	Room-Temperature Engineering of All-Inorganic Perovskite Nanocrystals with Different Dimensionalities. <i>Chemistry of Materials</i> , <b>2017</b> , 29, 8978-8982	9.6	137

266	Molecular behavior of zero-dimensional perovskites. <i>Science Advances</i> , <b>2017</b> , 3, e1701793	14.3	137
265	Metal Halide Perovskites for X-ray Imaging Scintillators and Detectors. <i>ACS Energy Letters</i> , <b>2021</b> , 6, 739-768	16.8	127
264	High-speed colour-converting photodetector with all-inorganic CsPbBr perovskite nanocrystals for ultraviolet light communication. <i>Light: Science and Applications</i> , <b>2019</b> , 8, 94	16.7	125
263	Contribution of Metal Defects in the Assembly Induced Emission of Cu Nanoclusters. <i>Journal of the American Chemical Society</i> , <b>2017</b> , 139, 4318-4321	16.4	123
262	Reducing Defects in Halide Perovskite Nanocrystals for Light-Emitting Applications. <i>Journal of Physical Chemistry Letters</i> , <b>2019</b> , 10, 2629-2640	6.4	122
261	Engineering of CH <sub>3</sub> NH <sub>3</sub> PbI <sub>3</sub> Perovskite Crystals by Alloying Large Organic Cations for Enhanced Thermal Stability and Transport Properties. <i>Angewandte Chemie - International Edition</i> , <b>2016</b> , 55, 10686-90	16.4	121
260	Surface Restructuring of Hybrid Perovskite Crystals. <i>ACS Energy Letters</i> , <b>2016</b> , 1, 1119-1126	20.1	115
259	Amorphous Tin Oxide as a Low-Temperature-Processed Electron-Transport Layer for Organic and Hybrid Perovskite Solar Cells. <i>ACS Applied Materials &amp; Interfaces</i> , <b>2017</b> , 9, 11828-11836	9.5	110
258	Intrinsic Lead Ion Emissions in Zero-Dimensional Cs <sub>4</sub> PbBr <sub>6</sub> Nanocrystals. <i>ACS Energy Letters</i> , <b>2017</b> , 2, 2805-2811	20.1	109
257	Dendritic Tip-on Polytriazine-Based Carbon Nitride Photocatalyst with High Hydrogen Evolution Activity. <i>Chemistry of Materials</i> , <b>2015</b> , 27, 8237-8247	9.6	108
256	The recombination mechanisms leading to amplified spontaneous emission at the true-green wavelength in CH <sub>3</sub> NH <sub>3</sub> PbBr <sub>3</sub> perovskites. <i>Applied Physics Letters</i> , <b>2015</b> , 106, 081902	3.4	106
255	Tunable Multipolar Surface Plasmons in 2D TiC T MXene Flakes. <i>ACS Nano</i> , <b>2018</b> , 12, 8485-8493	16.7	105
254	The Role of Surface Tension in the Crystallization of Metal Halide Perovskites. <i>ACS Energy Letters</i> , <b>2017</b> , 2, 1782-1788	20.1	103
253	Point Defects and Green Emission in Zero-Dimensional Perovskites. <i>Journal of Physical Chemistry Letters</i> , <b>2018</b> , 9, 5490-5495	6.4	103
252	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> , <b>2005</b> , 127, 18100-6	16.4	102
251	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> , <b>2020</b> , 5, 793-798	20.1	100
250	Low-Temperature Crystallization Enables 21.9% Efficient Single-Crystal MAPbI <sub>3</sub> Inverted Perovskite Solar Cells. <i>ACS Energy Letters</i> , <b>2020</b> , 5, 657-662	20.1	96
249	Templated Atom-Precise Galvanic Synthesis and Structure Elucidation of a [Ag <sub>24</sub> Au(SR) <sub>18</sub> ] Nanocluster. <i>Angewandte Chemie</i> , <b>2016</b> , 128, 934-938	3.6	95

248	Fast Crystallization and Improved Stability of Perovskite Solar Cells with Zn <sub>2</sub> SnO <sub>4</sub> Electron Transporting Layer: Interface Matters. <i>ACS Applied Materials &amp; Interfaces</i> , <b>2015</b> , 7, 28404-11	9.5	94
247	CsPb Br Single Crystals: Synthesis and Characterization. <i>ChemSusChem</i> , <b>2017</b> , 10, 3746-3749	8.3	93
246	Scanning ultrafast electron microscopy. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , <b>2010</b> , 107, 14993-8	11.5	92
245	Facile Synthesis and High Performance of a New Carbazole-Based Hole-Transporting Material for Hybrid Perovskite Solar Cells. <i>ACS Photonics</i> , <b>2015</b> , 2, 849-855	6.3	91
244	MXenes for Plasmonic Photodetection. <i>Advanced Materials</i> , <b>2019</b> , 31, e1807658	24	90
243	Thermochromic Perovskite Inks for Reversible Smart Window Applications. <i>Chemistry of Materials</i> , <b>2017</b> , 29, 3367-3370	9.6	89
242	Quantum confinement-tunable ultrafast charge transfer at the PbS quantum dot and phenyl-C <sub>4</sub> butyric acid methyl ester interface. <i>Journal of the American Chemical Society</i> , <b>2014</b> , 136, 6952-9 <sup>16.4</sup>	16.4	88
241	Ultrahigh Carrier Mobility Achieved in Photoresponsive Hybrid Perovskite Films via Coupling with Single-Walled Carbon Nanotubes. <i>Advanced Materials</i> , <b>2017</b> , 29, 1602432	24	87
240	2D Organic-Inorganic Hybrid Thin Films for Flexible UV-Visible Photodetectors. <i>Advanced Functional Materials</i> , <b>2017</b> , 27, 1605554	15.6	87
239	The Benefit and Challenges of Zero-Dimensional Perovskites. <i>Journal of Physical Chemistry Letters</i> , <b>2018</b> , 9, 4131-4138	6.4	86
238	Extremely reduced dielectric confinement in two-dimensional hybrid perovskites with large polar organics. <i>Communications Physics</i> , <b>2018</b> , 1,	5.4	84
237	Assembly of Atomically Precise Silver Nanoclusters into Nanocluster-Based Frameworks. <i>Journal of the American Chemical Society</i> , <b>2019</b> , 141, 9585-9592	16.4	81
236	Solvent-dependent photoacidity state of pyranine monitored by transient mid-infrared spectroscopy. <i>ChemPhysChem</i> , <b>2005</b> , 6, 625-36	3.2	81
235	Unlocking the Effect of Trivalent Metal Doping in All-Inorganic CsPbBr <sub>3</sub> Perovskite. <i>ACS Energy Letters</i> , <b>2019</b> , 4, 789-795	20.1	77
234	Halogen Migration in Hybrid Perovskites: The Organic Cation Matters. <i>Journal of Physical Chemistry Letters</i> , <b>2018</b> , 9, 5474-5480	6.4	77
233	Carrier dynamics of a visible-light-responsive Ta <sub>3</sub> N <sub>5</sub> photoanode for water oxidation. <i>Physical Chemistry Chemical Physics</i> , <b>2015</b> , 17, 2670-7	3.6	76
232	Metal Halide Perovskites for Solar-to-Chemical Fuel Conversion. <i>Advanced Energy Materials</i> , <b>2020</b> , 10, 1902433	21.8	75
231	The Surface of Hybrid Perovskite Crystals: A Boon or Bane. <i>ACS Energy Letters</i> , <b>2017</b> , 2, 846-856	20.1	73

230	Light-Induced Self-Assembly of Cubic CsPbBr <sub>3</sub> Perovskite Nanocrystals into Nanowires. <i>Chemistry of Materials</i> , <b>2019</b> , 31, 6642-6649	9.6	73
229	Generation of Multiple Excitons in Ag <sub>2</sub> S Quantum Dots: Single High-Energy versus Multiple-Photon Excitation. <i>Journal of Physical Chemistry Letters</i> , <b>2014</b> , 5, 659-65	6.4	72
228	4D scanning ultrafast electron microscopy: visualization of materials surface dynamics. <i>Journal of the American Chemical Society</i> , <b>2011</b> , 133, 7708-11	16.4	71
227	Excited-state dynamics of nitroperylene in solution: solvent and excitation wavelength dependence. <i>Journal of Physical Chemistry A</i> , <b>2008</b> , 112, 3823-30	2.8	70
226	Pyridine-Induced Dimensionality Change in Hybrid Perovskite Nanocrystals. <i>Chemistry of Materials</i> , <b>2017</b> , 29, 4393-4400	9.6	68
225	Doping-Induced Anisotropic Self-Assembly of Silver Icosahedra in [PtAgCl(PPh)] Nanoclusters. <i>Journal of the American Chemical Society</i> , <b>2017</b> , 139, 1053-1056	16.4	67
224	Compositional, Processing, and Interfacial Engineering of Nanocrystal- and Quantum-Dot-Based Perovskite Solar Cells. <i>Chemistry of Materials</i> , <b>2019</b> , 31, 6387-6411	9.6	66
223	Excited-state structure determination of the green fluorescent protein chromophore. <i>Journal of the American Chemical Society</i> , <b>2005</b> , 127, 11214-5	16.4	66
222	Layer-Dependent Rashba Band Splitting in 2D Hybrid Perovskites. <i>Chemistry of Materials</i> , <b>2018</b> , 30, 8538-8545	9.6	66
221	Ultrafast electron injection at the cationic porphyrin-graphene interface assisted by molecular flattening. <i>Chemical Communications</i> , <b>2014</b> , 50, 10452-5	5.8	64
220	22.8%-Efficient single-crystal mixed-cation inverted perovskite solar cells with a near-optimal bandgap. <i>Energy and Environmental Science</i> , <b>2021</b> , 14, 2263-2268	35.4	64
219	Ultrafast branching of reaction pathways in 2-(2'-hydroxyphenyl)benzothiazole in polar acetonitrile solution. <i>Journal of Physical Chemistry A</i> , <b>2011</b> , 115, 7550-8	2.8	63
218	Aqueous bimolecular proton transfer in acid-base neutralization. <i>Chemical Physics</i> , <b>2007</b> , 341, 240-257	2.3	63
217	Photoluminescence Origin of Zero-Dimensional Cs <sub>4</sub> PbBr <sub>6</sub> Perovskite. <i>ACS Energy Letters</i> , <b>2020</b> , 5, 87-99	20.1	62
216	Highly Stable Phosphonate-Based MOFs with Engineered Bandgaps for Efficient Photocatalytic Hydrogen Production. <i>Advanced Materials</i> , <b>2020</b> , 32, e1906368	24	60
215	Tailoring the Crystal Structure of Nanoclusters Unveiled High Photoluminescence via Ion Pairing. <i>Chemistry of Materials</i> , <b>2018</b> , 30, 2719-2725	9.6	60
214	Ultralong Radiative States in Hybrid Perovskite Crystals: Compositions for Submillimeter Diffusion Lengths. <i>Journal of Physical Chemistry Letters</i> , <b>2017</b> , 8, 4386-4390	6.4	59
213	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> , <b>2014</b> , 118, 3090-9	2.8	57

212	Direct femtosecond observation of tight and loose ion pairs upon photoinduced bimolecular electron transfer. <i>Angewandte Chemie - International Edition</i> , <b>2008</b> , 47, 9044-8	16.4	57
211	Water-Induced Dimensionality Reduction in Metal-Halide Perovskites. <i>Journal of Physical Chemistry C</i> , <b>2018</b> , 122, 14128-14134	3.8	56
210	Zeolite-like Metal-Organic Framework (MOF) Encaged Pt(II)-Porphyrin for Anion-Selective Sensing. <i>ACS Applied Materials &amp; Interfaces</i> , <b>2018</b> , 10, 11399-11405	9.5	56
209	Single Crystals: The Next Big Wave of Perovskite Optoelectronics <b>2020</b> , 2, 184-214		56
208	Efficient Photon Recycling and Radiation Trapping in Cesium Lead Halide Perovskite Waveguides. <i>ACS Energy Letters</i> , <b>2018</b> , 3, 1492-1498	20.1	56
207	Tuning Hot Carrier Cooling Dynamics by Dielectric Confinement in Two-Dimensional Hybrid Perovskite Crystals. <i>ACS Nano</i> , <b>2019</b> , 13, 12621-12629	16.7	55
206	Elucidation of the Intersystem Crossing Mechanism in a Helical BODIPY for Low-Dose Photodynamic Therapy. <i>Angewandte Chemie - International Edition</i> , <b>2020</b> , 59, 16114-16121	16.4	55
205	Four-Dimensional Ultrafast Electron Microscopy: Insights into an Emerging Technique. <i>ACS Applied Materials &amp; Interfaces</i> , <b>2017</b> , 9, 3-16	9.5	54
204	Nano surface engineering of Mn <sub>2</sub> O <sub>3</sub> for potential light-harvesting application. <i>Journal of Materials Chemistry C</i> , <b>2015</b> , 3, 8200-8211	7.1	53
203	Double Charged Surface Layers in Lead Halide Perovskite Crystals. <i>Nano Letters</i> , <b>2017</b> , 17, 2021-2027	11.5	52
202	Ligand-Free Nanocrystals of Highly Emissive Cs <sub>4</sub> PbBr <sub>6</sub> Perovskite. <i>Journal of Physical Chemistry C</i> , <b>2018</b> , 122, 6493-6498	3.8	52
201	Gold Doping of Silver Nanoclusters: A 26-Fold Enhancement in the Luminescence Quantum Yield. <i>Angewandte Chemie</i> , <b>2016</b> , 128, 5843-5847	3.6	51
200	Real-Time Observation of Ultrafast Intraband Relaxation and Exciton Multiplication in PbS Quantum Dots. <i>ACS Photonics</i> , <b>2014</b> , 1, 285-292	6.3	50
199	Charge transfer assisted by collective hydrogen-bonding dynamics. <i>Angewandte Chemie - International Edition</i> , <b>2009</b> , 48, 6251-6	16.4	49
198	Layer-edge device of two-dimensional hybrid perovskites. <i>Nature Communications</i> , <b>2018</b> , 9, 5196	17.4	49
197	Direct versus ligand-exchange synthesis of [PtAg(BDT)(TPP)] nanoclusters: effect of a single-atom dopant on the optoelectronic and chemical properties. <i>Nanoscale</i> , <b>2017</b> , 9, 9529-9536	7.7	47
196	Triplet excited state properties in variable gap $\pi$ -conjugated donor-acceptor-donor chromophores. <i>Chemical Science</i> , <b>2016</b> , 7, 3621-3631	9.4	46
195	Robust and air-stable sandwiched organo-lead halide perovskites for photodetector applications. <i>Journal of Materials Chemistry C</i> , <b>2016</b> , 4, 2545-2552	7.1	46



194	Defect Passivation in Perovskite Solar Cells by Cyano-Based $\pi$ -Conjugated Molecules for Improved Performance and Stability. <i>Advanced Functional Materials</i> , <b>2020</b> , 30, 2002861	15.6	43
193	Sequential merocyanine product isomerization following femtosecond UV excitation of a spiropyran. <i>Journal of Physical Chemistry A</i> , <b>2005</b> , 109, 8962-8	2.8	42
192	Single-step colloidal quantum dot films for infrared solar harvesting. <i>Applied Physics Letters</i> , <b>2016</b> , 109, 183105	3.4	42
191	Concentrated dual-cation electrolyte strategy for aqueous zinc-ion batteries. <i>Energy and Environmental Science</i> ,	35.4	42
190	Study of the Bulk Charge Carrier Dynamics in Anatase and Rutile TiO <sub>2</sub> Single Crystals by Femtosecond Time-Resolved Spectroscopy. <i>Journal of Physical Chemistry C</i> , <b>2018</b> , 122, 8925-8932	3.8	41
189	Solution-Processed Visible-Blind Ultraviolet Photodetectors with Nanosecond Response Time and High Detectivity. <i>Advanced Optical Materials</i> , <b>2019</b> , 7, 1900506	8.1	40
188	Designed growth and patterning of perovskite nanowires for lasing and wide color gamut phosphors with long-term stability. <i>Nano Energy</i> , <b>2020</b> , 73, 104801	17.1	39
187	Shape-Tunable Charge Carrier Dynamics at the Interfaces between Perovskite Nanocrystals and Molecular Acceptors. <i>Journal of Physical Chemistry Letters</i> , <b>2016</b> , 7, 3913-3919	6.4	38
186	Defect-Triggered Phase Transition in Cesium Lead Halide Perovskite Nanocrystals <b>2019</b> , 1, 185-191		37
185	[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> , <b>2020</b> , 142, 8696-8705	16.4	37
184	Ultrafast static and diffusion-controlled electron transfer at Ag <sub>29</sub> nanocluster/molecular acceptor interfaces. <i>Nanoscale</i> , <b>2016</b> , 8, 5412-6	7.7	37
183	[Cu <sub>61</sub> (StBu) <sub>26</sub> S <sub>6</sub> Cl <sub>6</sub> H <sub>14</sub> ] <sup>+</sup> : A Core-Shell Superatom Nanocluster with a Quasi-J <sub>36</sub> Cu <sub>19</sub> Core and an $\pi$ -8-Crown-6-Metal-Sulfide-like Stabilizing Belt <b>2019</b> , 1, 297-302		37
182	CsMnBr <sub>3</sub> : Lead-Free Nanocrystals with High Photoluminescence Quantum Yield and Picosecond Radiative Lifetime <b>2021</b> , 3, 290-297		37
181	Direct Femtosecond Observation of Charge Carrier Recombination in Ternary Semiconductor Nanocrystals: The Effect of Composition and Shelling. <i>Journal of Physical Chemistry C</i> , <b>2015</b> , 119, 3439-3446	2.8	36
180	Primary peptide folding dynamics observed with ultrafast temperature jump. <i>Angewandte Chemie - International Edition</i> , <b>2009</b> , 48, 5628-32	16.4	36
179	Speed limit of protein folding evidenced in secondary structure dynamics. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , <b>2011</b> , 108, 16622-7	11.5	36
178	Mapping Carrier Dynamics on Material Surfaces in Space and Time using Scanning Ultrafast Electron Microscopy. <i>Journal of Physical Chemistry Letters</i> , <b>2016</b> , 7, 985-94	6.4	35
177	Reversible Band Gap Narrowing of Sn-Based Hybrid Perovskite Single Crystal with Excellent Phase Stability. <i>Angewandte Chemie - International Edition</i> , <b>2018</b> , 57, 14868-14872	16.4	35



176	Enhanced Optoelectronic Performance of a Passivated Nanowire-Based Device: Key Information from Real-Space Imaging Using 4D Electron Microscopy. <i>Small</i> , <b>2016</b> , 12, 2313-20	11	34
175	Tellurium-Based Double Perovskites A <sub>2</sub> TeX <sub>6</sub> with Tunable Band Gap and Long Carrier Diffusion Length for Optoelectronic Applications. <i>ACS Energy Letters</i> , <b>2019</b> , 4, 228-234	20.1	34
174	Access to Highly Efficient Energy Transfer in Metal-Organic Frameworks via Mixed Linkers Approach. <i>Journal of the American Chemical Society</i> , <b>2020</b> , 142, 8580-8584	16.4	34
173	Modulation of Broadband Emissions in Two-Dimensional <100>-Oriented Ruddlesden-Popper Hybrid Perovskites. <i>ACS Energy Letters</i> , <b>2020</b> , 5, 2149-2155	20.1	33
172	Photophysics of organometallic platinum(II) derivatives of the diketopyrrolopyrrole chromophore. <i>Journal of Physical Chemistry A</i> , <b>2014</b> , 118, 11735-43	2.8	33
171	Simultaneous generation of different types of ion pairs upon charge-transfer excitation of a donor-acceptor complex revealed by ultrafast transient absorption spectroscopy. <i>Journal of Physical Chemistry A</i> , <b>2008</b> , 112, 5804-9	2.8	33
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38	Controllable Charge-Transfer Mechanism at Push-Pull Porphyrin/Nanocarbon Interfaces. <i>Journal of Physical Chemistry C</i> , <b>2019</b> , 123, 14283-14291	3.8	3
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26	Spin-Orbit Charge-Transfer Intersystem Crossing of Compact Naphthalenediimide-Carbazole Electron-Donor-Acceptor Triads. <i>Journal of Physical Chemistry B</i> , <b>2021</b> , 125, 10813-10831	3.4	3
25	Advances and Challenges in Tin Halide Perovskite Nanocrystals	1541-1557	3
24	Ultrafast electron imaging of surface charge carrier dynamics at low voltage. <i>Structural Dynamics</i> , <b>2020</b> , 7, 021001	3.2	2
23	Impact of the chemical nature and position of spacers on controlling the optical properties of silicon quantum dots. <i>Physical Chemistry Chemical Physics</i> , <b>2019</b> , 21, 17096-17108	3.6	2
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10	Engineering Band-Type Alignment in CsPbBr Perovskite-Based Artificial Multiple Quantum Wells. <i>Advanced Materials</i> , <b>2021</b> , 33, e2005166	24	1
9	High-Speed Ultraviolet-C Photodetector Based on Frequency Down-Converting CsPbBr <sub>3</sub> Perovskite Nanocrystals on Silicon Platform <b>2019</b> ,		1
8	Phosphatidylcholine-mediated regulation of growth kinetics for colloidal synthesis of cesium tin halide nanocrystals. <i>Nanoscale</i> , <b>2021</b> , 13, 16726-16733	7.7	1
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