

# Maksym Kovalenko

## List of Publications by Year in descending order

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382  
papers

50,254  
citations

3149

92  
h-index

1627

215  
g-index

397  
all docs

397  
docs citations

397  
times ranked

32002  
citing authors

#	ARTICLE	IF	CITATIONS
1	Nanocrystals of Cesium Lead Halide Perovskites (CsPbX <sub>3</sub> , X = Cl, Br, and I): Novel Optoelectronic Materials Showing Bright Emission with Wide Color Gamut. Nano Letters, 2015, 15, 3692-3696.	4.5	6,814
2	Prospects of Colloidal Nanocrystals for Electronic and Optoelectronic Applications. Chemical Reviews, 2010, 110, 389-458.	23.0	3,708
3	Fast Anion-Exchange in Highly Luminescent Nanocrystals of Cesium Lead Halide Perovskites (CsPbX <sub>3</sub> , X = Cl, Br, I). Nano Letters, 2015, 15, 5635-5640.	4.5	1,938
4	Properties and potential optoelectronic applications of lead halide perovskite nanocrystals. Science, 2017, 358, 745-750.	6.0	1,755
5	Genesis, challenges and opportunities for colloidal lead halide perovskite nanocrystals. Nature Materials, 2018, 17, 394-405.	13.3	1,632
6	Highly Dynamic Ligand Binding and Light Absorption Coefficient of Cesium Lead Bromide Perovskite Nanocrystals. ACS Nano, 2016, 10, 2071-2081.	7.3	1,448
7	Low-threshold amplified spontaneous emission and lasing from colloidal nanocrystals of caesium lead halide perovskites. Nature Communications, 2015, 6, 8056.	5.8	1,278
8	Prospects of Nanoscience with Nanocrystals. ACS Nano, 2015, 9, 1012-1057.	7.3	1,005
9	Colloidal Nanocrystals with Molecular Metal Chalcogenide Surface Ligands. Science, 2009, 324, 1417-1420.	6.0	962
10	Detection of X-ray photons by solution-processed lead halide perovskites. Nature Photonics, 2015, 9, 444-449.	15.6	916
11	Lead Halide Perovskite Nanocrystals in the Research Spotlight: Stability and Defect Tolerance. ACS Energy Letters, 2017, 2, 2071-2083.	8.8	888
12	Bright triplet excitons in caesium lead halide perovskites. Nature, 2018, 553, 189-193.	13.7	716
13	State of the Art and Prospects for Halide Perovskite Nanocrystals. ACS Nano, 2021, 15, 10775-10981.	7.3	705
14	Band-like transport, high electron mobility and high photoconductivity in all-inorganic nanocrystal arrays. Nature Nanotechnology, 2011, 6, 348-352.	15.6	655
15	Colloidal CsPbX <sub>3</sub> (X = Cl, Br, I) Nanocrystals 2.0: Zwitterionic Capping Ligands for Improved Durability and Stability. ACS Energy Letters, 2018, 3, 641-646.	8.8	647
16	Metal-free Inorganic Ligands for Colloidal Nanocrystals: S <sup>2-</sup> , HS <sup>-</sup> , Se <sup>2-</sup> , HSe <sup>-</sup> , Te <sup>2-</sup> , HTe <sup>-</sup> , TeS <sub>3</sub> <sup>2-</sup> , OH <sup>-</sup> , and NH <sub>2</sub> <sup>-</sup> as Surface Ligands. Journal of the American Chemical Society, 2011, 133, 10612-10620.	6.6	645
17	Near-infrared imaging with quantum-dot-sensitized organic photodiodes. Nature Photonics, 2009, 3, 332-336.	15.6	598
18	Harnessing Defect-Tolerance at the Nanoscale: Highly Luminescent Lead Halide Perovskite Nanocrystals in Mesoporous Silica Matrixes. Nano Letters, 2016, 16, 5866-5874.	4.5	501

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19	Monodisperse Antimony Nanocrystals for High-Rate Li-ion and Na-ion Battery Anodes: Nano versus Bulk. <i>Nano Letters</i> , 2014, 14, 1255-1262.	4.5	439
20	Detection of gamma photons using solution-grown single crystals of hybrid lead halide perovskites. <i>Nature Photonics</i> , 2016, 10, 585-589.	15.6	437
21	Synthesis of Cesium Lead Halide Perovskite Nanocrystals in a Droplet-Based Microfluidic Platform: Fast Parametric Space Mapping. <i>Nano Letters</i> , 2016, 16, 1869-1877.	4.5	425
22	Superfluorescence from lead halide perovskite quantum dot superlattices. <i>Nature</i> , 2018, 563, 671-675.	13.7	416
23	Dismantling the "Red Wall" of Colloidal Perovskites: Highly Luminescent Formamidinium and Formamidinium-Cesium Lead Iodide Nanocrystals. <i>ACS Nano</i> , 2017, 11, 3119-3134.	7.3	414
24	Monodisperse Formamidinium Lead Bromide Nanocrystals with Bright and Stable Green Photoluminescence. <i>Journal of the American Chemical Society</i> , 2016, 138, 14202-14205.	6.6	385
25	Fatty Acid Salts as Stabilizers in Size- and Shape-Controlled Nanocrystal Synthesis: The Case of Inverse Spinel Iron Oxide. <i>Journal of the American Chemical Society</i> , 2007, 129, 6352-6353.	6.6	380
26	Monodisperse and Inorganically Capped Sn and Sn/SnO <sub>2</sub> Nanocrystals for High-Performance Li-Ion Battery Anodes. <i>Journal of the American Chemical Society</i> , 2013, 135, 4199-4202.	6.6	346
27	Coherent single-photon emission from colloidal lead halide perovskite quantum dots. <i>Science</i> , 2019, 363, 1068-1072.	6.0	345
28	Disphenoidal Zero-Dimensional Lead, Tin, and Germanium Halides: Highly Emissive Singlet and Triplet Self-Trapped Excitons and X-ray Scintillation. <i>Journal of the American Chemical Society</i> , 2019, 141, 9764-9768.	6.6	336
29	Gold/Iron Oxide Core/Hollow Shell Nanoparticles. <i>Advanced Materials</i> , 2008, 20, 4323-4329.	11.1	308
30	Rationalizing and Controlling the Surface Structure and Electronic Passivation of Cesium Lead Halide Nanocrystals. <i>ACS Energy Letters</i> , 2019, 4, 63-74.	8.8	308
31	Efficient Blue Electroluminescence Using Quantum-Confined Two-Dimensional Perovskites. <i>ACS Nano</i> , 2016, 10, 9720-9729.	7.3	299
32	Single Cesium Lead Halide Perovskite Nanocrystals at Low Temperature: Fast Single-Photon Emission, Reduced Blinking, and Exciton Fine Structure. <i>ACS Nano</i> , 2016, 10, 2485-2490.	7.3	299
33	Polymer-Enhanced Stability of Inorganic Perovskite Nanocrystals and Their Application in Color Conversion LEDs. <i>ACS Applied Materials &amp; Interfaces</i> , 2016, 8, 19579-19586.	4.0	295
34	Solution-Grown CsPbBr <sub>3</sub> Perovskite Single Crystals for Photon Detection. <i>Chemistry of Materials</i> , 2016, 28, 8470-8474.	3.2	294
35	Expanding the Chemical Versatility of Colloidal Nanocrystals Capped with Molecular Metal Chalcogenide Ligands. <i>Journal of the American Chemical Society</i> , 2010, 132, 10085-10092.	6.6	263
36	Coherent Nanotwins and Dynamic Disorder in Cesium Lead Halide Perovskite Nanocrystals. <i>ACS Nano</i> , 2017, 11, 3819-3831.	7.3	246

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37	High-resolution remote thermometry and thermography using luminescent low-dimensional tin-halide perovskites. <i>Nature Materials</i> , 2019, 18, 846-852.	13.3	246
38	High-Temperature Photoluminescence of CsPbX <sub>3</sub> (X = Cl, Br, I) Nanocrystals. <i>Advanced Functional Materials</i> , 2017, 27, 1606750.	7.8	242
39	Highly Emissive Self-Trapped Excitons in Fully Inorganic Zero-Dimensional Tin Halides. <i>Angewandte Chemie - International Edition</i> , 2018, 57, 11329-11333.	7.2	242
40	Lead Halide Perovskites and Other Metal Halide Complexes As Inorganic Capping Ligands for Colloidal Nanocrystals. <i>Journal of the American Chemical Society</i> , 2014, 136, 6550-6553.	6.6	241
41	Polar-solvent-free colloidal synthesis of highly luminescent alkylammonium lead halide perovskite nanocrystals. <i>Nanoscale</i> , 2016, 8, 6278-6283.	2.8	233
42	High-performance thermoelectric nanocomposites from nanocrystal building blocks. <i>Nature Communications</i> , 2016, 7, 10766.	5.8	224
43	Efficient Lone-Pair-Driven Luminescence: Structure-Property Relationships in Emissive 5s <sup>2</sup> Metal Halides. , 2020, 2, 1218-1232.		220
44	High-energy-density dual-ion battery for stationary storage of electricity using concentrated potassium fluorosulfonylimide. <i>Nature Communications</i> , 2018, 9, 4469.	5.8	213
45	Efficient Aluminum Chloride-Natural Graphite Battery. <i>Chemistry of Materials</i> , 2017, 29, 4484-4492.	3.2	212
46	Energetic and Entropic Contributions to Self-Assembly of Binary Nanocrystal Superlattices: Temperature as the Structure-Directing Factor. <i>Journal of the American Chemical Society</i> , 2010, 132, 11967-11977.	6.6	210
47	Manganese(II) in Tetrahedral Halide Environment: Factors Governing Bright Green Luminescence. <i>Chemistry of Materials</i> , 2019, 31, 10161-10169.	3.2	200
48	Bright Blue and Green Luminescence of Sb(III) in Double Perovskite Cs <sub>2</sub> MInCl <sub>6</sub> (M = Na, K) Matrices. <i>Chemistry of Materials</i> , 2020, 32, 5118-5124.	3.2	196
49	The ground exciton state of formamidinium lead bromide perovskite nanocrystals is a singlet dark state. <i>Nature Materials</i> , 2019, 18, 717-724.	13.3	189
50	Bottom-up engineering of thermoelectric nanomaterials and devices from solution-processed nanoparticle building blocks. <i>Chemical Society Reviews</i> , 2017, 46, 3510-3528.	18.7	184
51	Inkjet-Printed Nanocrystal Photodetectors Operating up to 3-µm Wavelengths. <i>Advanced Materials</i> , 2007, 19, 3574-3578.	11.1	180
52	Rashba Effect in a Single Colloidal CsPbBr <sub>3</sub> Perovskite Nanocrystal Detected by Magneto-Optical Measurements. <i>Nano Letters</i> , 2017, 17, 5020-5026.	4.5	180
53	Polypyrenes as High-Performance Cathode Materials for Aluminum Batteries. <i>Advanced Materials</i> , 2018, 30, e1705644.	11.1	180
54	Colloidal HgTe Nanocrystals with Widely Tunable Narrow Band Gap Energies: From Telecommunications to Molecular Vibrations. <i>Journal of the American Chemical Society</i> , 2006, 128, 3516-3517.	6.6	176

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55	Pyrite (FeS <sub>2</sub> ) nanocrystals as inexpensive high-performance lithium-ion cathode and sodium-ion anode materials. <i>Nanoscale</i> , 2015, 7, 9158-9163.	2.8	167
56	Direct Synthesis of Quaternary Alkylammonium-Capped Perovskite Nanocrystals for Efficient Blue and Green Light-Emitting Diodes. <i>ACS Energy Letters</i> , 2019, 4, 2703-2711.	8.8	161
57	Low-Cost Synthesis of Highly Luminescent Colloidal Lead Halide Perovskite Nanocrystals by Wet Ball Milling. <i>ACS Applied Nano Materials</i> , 2018, 1, 1300-1308.	2.4	159
58	Hybrid Metal Halides with Multiple Photoluminescence Centers. <i>Angewandte Chemie - International Edition</i> , 2019, 58, 18670-18675.	7.2	158
59	SnTe Nanocrystals: A New Example of Narrow-Gap Semiconductor Quantum Dots. <i>Journal of the American Chemical Society</i> , 2007, 129, 11354-11355.	6.6	156
60	Perovskite-type superlattices from lead halide perovskite nanocubes. <i>Nature</i> , 2021, 593, 535-542.	13.7	152
61	Hydrogen-like Wannier-Mott Excitons in Single Crystal of Methylammonium Lead Bromide Perovskite. <i>ACS Nano</i> , 2016, 10, 6363-6371.	7.3	151
62	Semiconductor Nanocrystals Functionalized with Antimony Telluride Zintl Ions for Nanostructured Thermoelectrics. <i>Journal of the American Chemical Society</i> , 2010, 132, 6686-6695.	6.6	149
63	Challenges and benefits of post-lithium-ion batteries. <i>New Journal of Chemistry</i> , 2020, 44, 1677-1683.	1.4	146
64	Single crystals of caesium formamidinium lead halide perovskites: solution growth and gamma dosimetry. <i>NPG Asia Materials</i> , 2017, 9, e373-e373.	3.8	145
65	Zeolite-Templated Carbon as an Ordered Microporous Electrode for Aluminum Batteries. <i>ACS Nano</i> , 2017, 11, 1911-1919.	7.3	143
66	Inorganically Functionalized PbS-CdS Colloidal Nanocrystals: Integration into Amorphous Chalcogenide Glass and Luminescent Properties. <i>Journal of the American Chemical Society</i> , 2012, 134, 2457-2460.	6.6	142
67	Stable Ultraconcentrated and Ultradilute Colloids of CsPbX <sub>3</sub> (X = Cl, Br) Nanocrystals Using Natural Lecithin as a Capping Ligand. <i>Journal of the American Chemical Society</i> , 2019, 141, 19839-19849.	6.6	141
68	Exploration of Near-Infrared-Emissive Colloidal Multinary Lead Halide Perovskite Nanocrystals Using an Automated Microfluidic Platform. <i>ACS Nano</i> , 2018, 12, 5504-5517.	7.3	138
69	Monodisperse Colloidal Gallium Nanoparticles: Synthesis, Low Temperature Crystallization, Surface Plasmon Resonance and Li-Ion Storage. <i>Journal of the American Chemical Society</i> , 2014, 136, 12422-12430.	6.6	133
70	Luminescent and Photoconductive Layered Lead Halide Perovskite Compounds Comprising Mixtures of Cesium and Guanidinium Cations. <i>Inorganic Chemistry</i> , 2017, 56, 11552-11564.	1.9	130
71	An overview and prospective on Al and Al-ion battery technologies. <i>Journal of Power Sources</i> , 2021, 481, 228870.	4.0	130
72	Monodisperse SnSb nanocrystals for Li-ion and Na-ion battery anodes: synergy and dissonance between Sn and Sb. <i>Nanoscale</i> , 2015, 7, 455-459.	2.8	128

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73	Sensitized solar cells with colloidal PbS@CdS core-shell quantum dots. <i>Physical Chemistry Chemical Physics</i> , 2014, 16, 736-742.	1.3	125
74	5.2% efficient PbS nanocrystal Schottky solar cells. <i>Energy and Environmental Science</i> , 2013, 6, 3054.	15.6	123
75	Guanidinium-Formamidinium Lead Iodide: A Layered Perovskite-Related Compound with Red Luminescence at Room Temperature. <i>Journal of the American Chemical Society</i> , 2018, 140, 3850-3853.	6.6	123
76	Solution-Processable Near-IR Photodetectors Based on Electron Transfer from PbS Nanocrystals to Fullerene Derivatives. <i>Advanced Materials</i> , 2009, 21, 683-687.	11.1	121
77	Counterion-Mediated Ligand Exchange for PbS Colloidal Quantum Dot Superlattices. <i>ACS Nano</i> , 2015, 9, 11951-11959.	7.3	121
78	Temperature dependent behaviour of lead sulfide quantum dot solar cells and films. <i>Energy and Environmental Science</i> , 2016, 9, 2916-2924.	15.6	119
79	Unraveling exciton-phonon coupling in individual FAPbI <sub>3</sub> nanocrystals emitting near-infrared single photons. <i>Nature Communications</i> , 2018, 9, 3318.	5.8	117
80	Kish Graphite Flakes as a Cathode Material for an Aluminum Chloride-Graphite Battery. <i>ACS Applied Materials &amp; Interfaces</i> , 2017, 9, 28478-28485.	4.0	114
81	High Thermoelectric Performance in Crystallographically Textured n-Type Bi <sub>2</sub> Te <sub>3</sub> Se Produced from Asymmetric Colloidal Nanocrystals. <i>ACS Nano</i> , 2018, 12, 7174-7184.	7.3	114
82	Alkyl Chains of Surface Ligands Affect Polytypism of CdSe Nanocrystals and Play an Important Role in the Synthesis of Anisotropic Nanoheterostructures. <i>Journal of the American Chemical Society</i> , 2010, 132, 15866-15868.	6.6	113
83	Rechargeable Dual-Ion Batteries with Graphite as a Cathode: Key Challenges and Opportunities. <i>Advanced Energy Materials</i> , 2019, 9, 1901749.	10.2	112
84	Seed-Crystal-Induced Cold Sintering Toward Metal Halide Transparent Ceramic Scintillators. <i>Advanced Materials</i> , 2022, 34, e2110420.	11.1	108
85	Energy Transfer between Inorganic Perovskite Nanocrystals. <i>Journal of Physical Chemistry C</i> , 2016, 120, 13310-13315.	1.5	106
86	Unveiling the Shape Evolution and Halide-Ion-Segregation in Blue-Emitting Formamidinium Lead Halide Perovskite Nanocrystals Using an Automated Microfluidic Platform. <i>Nano Letters</i> , 2018, 18, 1246-1252.	4.5	106
87	Structure of Colloidal Quantum Dots from Dynamic Nuclear Polarization Surface Enhanced NMR Spectroscopy. <i>Journal of the American Chemical Society</i> , 2015, 137, 13964-13971.	6.6	105
88	Quasi-Seeded Growth of Ligand-Tailored PbSe Nanocrystals through Cation-Exchange-Mediated Nucleation. <i>Angewandte Chemie - International Edition</i> , 2008, 47, 3029-3033.	7.2	103
89	Crystal symmetry breaking and vacancies in colloidal lead chalcogenide quantum dots. <i>Nature Materials</i> , 2016, 15, 987-994.	13.3	101
90	Coherent spin dynamics of electrons and holes in CsPbBr <sub>3</sub> perovskite crystals. <i>Nature Communications</i> , 2019, 10, 673.	5.8	100

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91	A General Synthesis Strategy for Monodisperse Metallic and Metalloid Nanoparticles (In, Ga, Bi, Sb, Zn.) <i>Tj ETQq1</i> 1 0.784314 rgBT /Otel 635-647.	3.2	99
92	Engineering Color-Stable Blue Light-Emitting Diodes with Lead Halide Perovskite Nanocrystals. <i>ACS Applied Materials &amp; Interfaces</i> , 2019, 11, 21655-21660.	4.0	98
93	Opportunities and challenges for quantum dot photovoltaics. <i>Nature Nanotechnology</i> , 2015, 10, 994-997.	15.6	97
94	Efficient and Inexpensive Sodium-Magnesium Hybrid Battery. <i>Chemistry of Materials</i> , 2015, 27, 7452-7458.	3.2	96
95	Supramolecular Approach for Fine-Tuning of the Bright Luminescence from Zero-Dimensional Antimony(III) Halides. , 2020, 2, 845-852.		94
96	Surface Functionalization of Semiconductor and Oxide Nanocrystals with Small Inorganic Oxoanions (PO <sub>4</sub> <sup>3-</sup> , MoO <sub>4</sub> <sup>2-</sup> ) and Polyoxometalate Ligands. <i>ACS Nano</i> , 2014, 8, 9388-9402.	7.3	92
97	Highly Monodisperse Bismuth Nanoparticles and Their Three-Dimensional Superlattices. <i>Journal of the American Chemical Society</i> , 2010, 132, 15158-15159.	6.6	91
98	Tuning the Magnetic Properties of Metal Oxide Nanocrystal Heterostructures by Cation Exchange. <i>Nano Letters</i> , 2013, 13, 586-593.	4.5	91
99	Origin of the increased open circuit voltage in PbS-CdS core-shell quantum dot solar cells. <i>Journal of Materials Chemistry A</i> , 2015, 3, 1450-1457.	5.2	91
100	Crystallographically Textured Nanomaterials Produced from the Liquid Phase Sintering of Bi <sub>2</sub> Sb <sub>2</sub> Te <sub>3</sub> Nanocrystal Building Blocks. <i>Nano Letters</i> , 2018, 18, 2557-2563.	4.5	89
101	Reconfigurable halide perovskite nanocrystal memristors for neuromorphic computing. <i>Nature Communications</i> , 2022, 13, 2074.	5.8	89
102	Optical Properties of Organic Semiconductor Blends with Near-Infrared Quantum-Dot Sensitizers for Light Harvesting Applications. <i>Advanced Energy Materials</i> , 2011, 1, 802-812.	10.2	88
103	Underestimated Effect of a Polymer Matrix on the Light Emission of Single CsPbBr <sub>3</sub> Nanocrystals. <i>Nano Letters</i> , 2019, 19, 3648-3653.	4.5	88
104	Facile Droplet-based Microfluidic Synthesis of Monodisperse IV-VI Semiconductor Nanocrystals with Coupled In-Line NIR Fluorescence Detection. <i>Chemistry of Materials</i> , 2014, 26, 2975-2982.	3.2	87
105	Unraveling the Core-Shell Structure of Ligand-Capped Sn/SnOx Nanoparticles by Surface-Enhanced Nuclear Magnetic Resonance, Mössbauer, and X-ray Absorption Spectroscopies. <i>ACS Nano</i> , 2014, 8, 2639-2648.	7.3	87
106	Inexpensive colloidal SnSb nanoalloys as efficient anode materials for lithium- and sodium-ion batteries. <i>Journal of Materials Chemistry A</i> , 2016, 4, 7053-7059.	5.2	86
107	Large-Area Ordered Superlattices from Magnetic W <sub>1/4</sub> stite/Cobalt Ferrite Core/Shell Nanocrystals by Doctor Blade Casting. <i>ACS Nano</i> , 2010, 4, 423-431.	7.3	83
108	Exciton-Exciton Interaction and Optical Gain in Colloidal CdSe/CdS Dot/Rod Nanocrystals. <i>Advanced Materials</i> , 2009, 21, 4942-4946.	11.1	82

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109	Microfluidic Reactors Provide Preparative and Mechanistic Insights into the Synthesis of Formamidinium Lead Halide Perovskite Nanocrystals. <i>Chemistry of Materials</i> , 2017, 29, 8433-8439.	3.2	81
110	Hybrid OD Antimony Halides as Air-Stable Luminophores for High-Spatial-Resolution Remote Thermography. <i>Advanced Materials</i> , 2021, 33, e2007355.	11.1	80
111	Crystal Structure, Morphology, and Surface Termination of Cyan-Emissive, Six-Monolayers-Thick CsPbBr <sub>3</sub> Nanoplatelets from X-ray Total Scattering. <i>ACS Nano</i> , 2019, 13, 14294-14307.	7.3	79
112	Exchange-Coupled Bimagnetic W <sup>1/4</sup> stite/Metal Ferrite Core/Shell Nanocrystals: Size, Shape, and Compositional Control. <i>Small</i> , 2009, 5, 2247-2252.	5.2	78
113	Pick a Color MARIA: Adaptive Sampling Enables the Rapid Identification of Complex Perovskite Nanocrystal Compositions with Defined Emission Characteristics. <i>ACS Applied Materials &amp; Interfaces</i> , 2018, 10, 18869-18878.	4.0	78
114	Aluminum Chloride-Graphite Batteries with Flexible Current Collectors Prepared from Earth-Abundant Elements. <i>Advanced Science</i> , 2018, 5, 1700712.	5.6	77
115	A Small Cationic Organo-Copper Cluster as Thermally Robust Highly Photo- and Electroluminescent Material. <i>Journal of the American Chemical Society</i> , 2020, 142, 373-381.	6.6	77
116	Cost-effective sol-gel synthesis of porous CuO nanoparticle aggregates with tunable specific surface area. <i>Scientific Reports</i> , 2019, 9, 11758.	1.6	76
117	Solid-State NMR and NQR Spectroscopy of Lead-Halide Perovskite Materials. <i>Journal of the American Chemical Society</i> , 2020, 142, 19413-19437.	6.6	76
118	Scalable PbS Quantum Dot Solar Cell Production by Blade Coating from Stable Inks. <i>ACS Applied Materials &amp; Interfaces</i> , 2021, 13, 5195-5207.	4.0	76
119	Nanocrystal Superlattices with Thermally Degradable Hybrid Inorganic-Organic Capping Ligands. <i>Journal of the American Chemical Society</i> , 2010, 132, 15124-15126.	6.6	75
120	Monodisperse Long-Chain Sulfobetaine-Capped CsPbBr <sub>3</sub> Nanocrystals and Their Superfluorescent Assemblies. <i>ACS Central Science</i> , 2021, 7, 135-144.	5.3	75
121	Evidence of Large Polarons in Photoemission Band Mapping of the Perovskite Semiconductor $\text{CsPbBr}_3$ . <i>Physical Review Letters</i> , 2020, 124, 206402.	2.9	74
122	Solution-based synthesis and processing of Sn- and Bi-doped Cu <sub>3</sub> SbSe <sub>4</sub> nanocrystals, nanomaterials and ring-shaped thermoelectric generators. <i>Journal of Materials Chemistry A</i> , 2017, 5, 2592-2602.	5.2	73
123	Temperature Dependence of the Amplified Spontaneous Emission from CsPbBr <sub>3</sub> Nanocrystal Thin Films. <i>Journal of Physical Chemistry C</i> , 2018, 122, 5813-5819.	1.5	71
124	Building a Better Garnet Solid Electrolyte/Metallic Li Interface with Antimony. <i>Advanced Energy Materials</i> , 2021, 11, 2102086.	10.2	70
125	Hybrid Solar Cells Using HgTe Nanocrystals and Nanoporous TiO <sub>2</sub> Electrodes. <i>Advanced Functional Materials</i> , 2006, 16, 1095-1099.	7.8	69
126	Precisely Engineered Colloidal Nanoparticles and Nanocrystals for Li-Ion and Na-Ion Batteries: Model Systems or Practical Solutions?. <i>Chemistry of Materials</i> , 2014, 26, 5422-5432.	3.2	69



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127	Highly Stable, Near-Unity Efficiency Atomically Flat Semiconductor Nanocrystals of CdSe/ZnS Hetero-Nanoplatelets Enabled by ZnS-Shell Hot-Injection Growth. <i>Small</i> , 2019, 15, e1804854.	5.2	67
128	The dark exciton ground state promotes photon-pair emission in individual perovskite nanocrystals. <i>Nature Communications</i> , 2020, 11, 6001.	5.8	67
129	Radiative lifetime-encoded unicolour security tags using perovskite nanocrystals. <i>Nature Communications</i> , 2021, 12, 981.	5.8	67
130	Colloidal Tin-Germanium Nanorods and Their Li-Ion Storage Properties. <i>ACS Nano</i> , 2014, 8, 2360-2368.	7.3	66
131	Ultra-narrow room-temperature emission from single CsPbBr <sub>3</sub> perovskite quantum dots. <i>Nature Communications</i> , 2022, 13, 2587.	5.8	66
132	Aggregation-induced emission in lamellar solids of colloidal perovskite quantum wells. <i>Science Advances</i> , 2017, 3, eaaq0208.	4.7	65
133	Inexpensive Antimony Nanocrystals and Their Composites with Red Phosphorus as High-Performance Anode Materials for Na-ion Batteries. <i>Scientific Reports</i> , 2015, 5, 8418.	1.6	64
134	Copper sulfide nanoparticles as high-performance cathode materials for Mg-ion batteries. <i>Scientific Reports</i> , 2019, 9, 7988.	1.6	64
135	Colloidal CdSe Quantum Wells with Graded Shell Composition for Low-Threshold Amplified Spontaneous Emission and Highly Efficient Electroluminescence. <i>ACS Nano</i> , 2019, 13, 13899-13909.	7.3	64
136	High Infrared Photoconductivity in Films of Arsenic-Sulfide-Encapsulated Lead-Sulfide Nanocrystals. <i>ACS Nano</i> , 2014, 8, 12883-12894.	7.3	62
137	Long-Lived Hot Carriers in Formamidinium Lead Iodide Nanocrystals. <i>Journal of Physical Chemistry C</i> , 2017, 121, 12434-12440.	1.5	62
138	Exciton Recombination in Formamidinium Lead Triiodide: Nanocrystals versus Thin Films. <i>Small</i> , 2017, 13, 1700673.	5.2	62
139	Stoichiometric control of the density of states in PbS colloidal quantum dot solids. <i>Science Advances</i> , 2017, 3, eaao1558.	4.7	62
140	Lead Halide Perovskite Nanocrystals: From Discovery to Self-assembly and Applications. <i>Chimia</i> , 2017, 71, 461.	0.3	62
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