Andrey L Rogach

List of Publications by Year
in descending order

545 papers	56,217 citations	616 124 h-index	1536 218 g-index
576 all docs	576 docs citations	576 times ranked	42955 citing authors

#	Article	IF	Citations
1	Thiol-Capping of CdTe Nanocrystals:â€‰ An Alternative to Organometallic Synthetic Routes. Journal of Physical Chemistry B, 2002, 106, 7177-7185.	2.6	1,485
2	Highly Luminescent Monodisperse CdSe and CdSe/ZnS Nanocrystals Synthesized in a Hexadecylamineâˆ'Trioctylphosphine Oxideâˆ'Trioctylphospine Mixture. Nano Letters, 2001, 1, 207-211.	9.1	1,423
3	Prospects of Nanoscience with Nanocrystals. ACS Nano, 2015, 9, 1012-1057.	14.6	1,005
4	Hydrophobic Nanocrystals Coated with an Amphiphilic Polymer Shell:Â A General Route to Water Soluble Nanocrystals. Nano Letters, 2004, 4, 703-707.	9.1	1,003
5	Properties and Applications of Colloidal Nonspherical Noble Metal Nanoparticles. Advanced Materials, 2010, 22, 1805-1825.	21.0	909
6	Lead Halide Perovskite Nanocrystals in the Research Spotlight: Stability and Defect Tolerance. ACS Energy Letters, 2017, 2, 2071-2083.	17.4	888
7	Nonspherical Noble Metal Nanoparticles: Colloidâ€Chemical Synthesis and Morphology Control. Advanced Materials, 2010, 22, 1781-1804.	21.0	789
8	Carbon dotsâ€"Emerging light emitters for bioimaging, cancer therapy and optoelectronics. Nano Today, 2014, 9, 590-603.	11.9	788
9	Redox shuttle mechanism enhances photocatalytic H2 generation on Ni-decorated CdSÂnanorods. Nature Materials, 2014, 13, 1013-1018.	27.5	739
10	State of the Art and Prospects for Halide Perovskite Nanocrystals. ACS Nano, 2021, 15, 10775-10981.	14.6	705
11	Aqueous Synthesis of Thiol-Capped CdTe Nanocrystals:â€‰ State-of-the-Art. Journal of Physical Chemistry C, 2007, 111, 14628-14637.	3.1	703
12	Enhancing the Brightness of Cesium Lead Halide Perovskite Nanocrystal Based Green Light-Emitting Devices through the Interface Engineering with Perfluorinated Ionomer. Nano Letters, 2016, 16, 1415-1420.	9.1	685
13	Strongly Photoluminescent CdTe Nanocrystals by Proper Surface Modification. Journal of Physical Chemistry B, 1998, 102, 8360-8363.	2.6	678
14	Highly Emissive Colloidal CdSe/CdS Heterostructures of Mixed Dimensionality. Nano Letters, 2003, 3, 1677-1681.	9.1	579
15	Synthesis and Characterization of a Size Series of Extremely Small Thiol-Stabilized CdSe Nanocrystals. Journal of Physical Chemistry B, 1999, 103, 3065-3069.	2.6	565
16	Graphitic Nitrogen Triggers Red Fluorescence in Carbon Dots. ACS Nano, 2017, 11, 12402-12410.	14.6	550
17	Control of Emission Color of High Quantum Yield CH₃NH₃PbBr₃ Perovskite Quantum Dots by Precipitation Temperature. Advanced Science, 2015, 2, 1500194.	11.2	536
18	Colloidal Synthesis and Self-Assembly of CoPt3 Nanocrystals. Journal of the American Chemical Society, 2002, 124, 11480-11485.	13.7	533

#	Article	IF	Citations
19	The Role of Metal Nanoparticles in Remote Release of Encapsulated Materials. Nano Letters, 2005, 5, 1371-1377.	9.1	533
20	Hierarchical SnO₂ Nanostructures: Recent Advances in Design, Synthesis, and Applications. Chemistry of Materials, 2014, 26, 123-133.	6.7	532
21	Molecular Fluorescence in Citric Acid-Based Carbon Dots. Journal of Physical Chemistry C, 2017, 121, 2014-2022.	3.1	517
22	Water resistant CsPbX₃ nanocrystals coated with polyhedral oligomeric silsesquioxane and their use as solid state luminophores in all-perovskite white light-emitting devices. Chemical Science, 2016, 7, 5699-5703.	7.4	499
23	Dynamic Distribution of Growth Rates within the Ensembles of Colloidal IIâˆ'VI and IIIâˆ'V Semiconductor Nanocrystals as a Factor Governing Their Photoluminescence Efficiency. Journal of the American Chemical Society, 2002, 124, 5782-5790.	13.7	471
24	Color-Switchable Electroluminescence of Carbon Dot Light-Emitting Diodes. ACS Nano, 2013, 7, 11234-11241.	14.6	471
25	Evolution of an Ensemble of Nanoparticles in a Colloidal Solution:Â Theoretical Study. Journal of Physical Chemistry B, 2001, 105, 12278-12285.	2.6	463
26	Albuminâˆ'CdTe Nanoparticle Bioconjugates:â€‰ Preparation, Structure, and Interunit Energy Transfer with Antenna Effect. Nano Letters, 2001, 1, 281-286.	9.1	412
27	Clusterization-triggered emission: Uncommon luminescence from common materials. Materials Today, 2020, 32, 275-292.	14.2	407
28	â€œRaisin Bunâ€•Type Composite Spheres of Silica and Semiconductor Nanocrystals. Chemistry of Materials, 2000, 12, 2676-2685.	6.7	406
29	Zn-Alloyed CsPbI₃ Nanocrystals for Highly Efficient Perovskite Light-Emitting Devices. Nano Letters, 2019, 19, 1552-1559.	9.1	395
30	Synthesis and characterization of thiolâ€stabilized CdTe nanocrystals. Zeitschrift Fur Elektrotechnik Und Elektrochemie, 1996, 100, 1772-1778.	0.9	392
31	Infrared-Emitting Colloidal Nanocrystals: Synthesis, Assembly, Spectroscopy, and Applications. Small, 2007, 3, 536-557.	10.0	385
32	Colloidal lead halide perovskite nanocrystals: synthesis, optical properties and applications. NPG Asia Materials, 2016, 8, e328-e328.	7.9	385
33	Narrow bandgap colloidal metal chalcogenide quantum dots: synthetic methods, heterostructures, assemblies, electronic and infrared optical properties. Chemical Society Reviews, 2013, 42, 3033.	38.1	374
34	Carbon Dots: A Unique Fluorescent Cocktail of Polycyclic Aromatic Hydrocarbons. Nano Letters, 2015, 15, 6030-6035.	9.1	369
35	Aqueous Based Semiconductor Nanocrystals. Chemical Reviews, 2016, 116, 10623-10730.	47.7	364
36	Thickness-Dependent Full-Color Emission Tunability in a Flexible Carbon Dot Ionogel. Journal of Physical Chemistry Letters, 2014, 5, 1412-1420.	4.6	361

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37	Fullâ€Color Inorganic Carbon Dot Phosphors for Whiteâ€Lightâ€Emitting Diodes. Advanced Optical Materials, 2017, 5, 1700416.	7.3	360
38	Trifluoroacetate induced small-grained CsPbBr3 perovskite films result in efficient and stable light-emitting devices. Nature Communications, 2019, 10, 665.	12.8	350
39	Nearâ€Infrared Excitation/Emission and Multiphotonâ€Induced Fluorescence of Carbon Dots. Advanced Materials, 2018, 30, e1705913.	21.0	349
40	A Novel Organometallic Synthesis of Highly Luminescent CdTe Nanocrystals. Journal of Physical Chemistry B, 2001, 105, 2260-2263.	2.6	339
41	Chiral templating of self-assembling nanostructures by circularly polarized light. Nature Materials, 2015, 14, 66-72.	27.5	330
42	Colloidally Prepared HgTe Nanocrystals with Strong Room-Temperature Infrared Luminescence. Advanced Materials, 1999, 11, 552-555.	21.0	312
43	Electroluminescence of different colors from polycation/CdTe nanocrystal self-assembled films. Journal of Applied Physics, 2000, 87, 2297-2302.	2.5	310
44	Semiconductor Quantum Dot-Labeled Microsphere Bioconjugates Prepared by Stepwise Self-Assembly. Nano Letters, 2002, 2, 857-861.	9.1	310
45	Lightâ€Emitting Diodes with Semiconductor Nanocrystals. Angewandte Chemie - International Edition, 2008, 47, 6538-6549.	13.8	305
46	Metal Halide Perovskite Lightâ€Emitting Devices: Promising Technology for Nextâ€Generation Displays. Advanced Functional Materials, 2019, 29, 1902008.	14.9	296
47	Chemistry and photophysics of thiol-stabilized II-VI semiconductor nanocrystals. Pure and Applied Chemistry, 2000, 72, 179-188.	1.9	292
48	Thermally Stable Copper(II)-Doped Cesium Lead Halide Perovskite Quantum Dots with Strong Blue Emission. Journal of Physical Chemistry Letters, 2019, 10, 943-952.	4.6	274
49	Smoothing the energy transfer pathway in quasi-2D perovskite films using methanesulfonate leads to highly efficient light-emitting devices. Nature Communications, 2021, 12, 1246.	12.8	274
50	Nanoengineered Polymer Capsules: Tools for Detection, Controlled Delivery, and Site-Specific Manipulation. Small, 2005, 1, 194-200.	10.0	271
51	Exciton Recycling in Graded Gap Nanocrystal Structures. Nano Letters, 2004, 4, 1599-1603.	9.1	267
52	A New Approach to Crystallization of CdSe Nanoparticles into Ordered Three-Dimensional Superlattices. Advanced Materials, 2001, 13, 1868.	21.0	248
53	Efficient Phase Transfer of Luminescent Thiol-Capped Nanocrystals:â€‰ From Water to Nonpolar Organic Solvents. Nano Letters, 2002, 2, 803-806.	9.1	247
54	Gold Nanoshells Improve Single Nanoparticle Molecular Sensors. Nano Letters, 2004, 4, 1853-1857.	9.1	246

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55	Carbon Dot Nanothermometry: Intracellular Photoluminescence Lifetime Thermal Sensing. ACS Nano, 2017, 11, 1432-1442.	14.6	243
56	Conquering Aggregation-Induced Solid-State Luminescence Quenching of Carbon Dots through a Carbon Dots-Triggered Silica Gelation Process. Chemistry of Materials, 2017, 29, 1779-1787.	6.7	242
57	Tracking the Source of Carbon Dot Photoluminescence: Aromatic Domains versus Molecular Fluorophores. Nano Letters, 2017, 17, 7710-7716.	9.1	236
58	Luminescent colloidal carbon dots: optical properties and effects of doping [Invited]. Optics Express, 2016, 24, A312.	3.4	235
59	Electrophoretic Deposition of Latex-Based 3D Colloidal Photonic Crystals:â€‰ A Technique for Rapid Production of High-Quality Opals. Chemistry of Materials, 2000, 12, 2721-2726.	6.7	233
60	Effect of ZnS shell thickness on the phonon spectra in CdSe quantum dots. Physical Review B, 2003, 68, .	3.2	227
61	Wave Function Engineering in Elongated Semiconductor Nanocrystals with Heterogeneous Carrier Confinement. Nano Letters, 2005, 5, 2044-2049.	9.1	225
62	Synthesis and surface modification of amino-stabilized CdSe, CdTe and InP nanocrystals. Colloids and Surfaces A: Physicochemical and Engineering Aspects, 2002, 202, 145-154.	4.7	224
63	Multifunctionalized Polymer Microcapsules: Novel Tools for Biological and Pharmacological Applications. Small, 2007, 3, 944-955.	10.0	223
64	Waterâ€Assisted Size and Shape Control of CsPbBr₃ Perovskite Nanocrystals. Angewandte Chemie - International Edition, 2018, 57, 3337-3342.	13.8	223
65	Nonfunctionalized Nanocrystals Can Exploit a Cell's Active Transport Machinery Delivering Them to Specific Nuclear and Cytoplasmic Compartments. Nano Letters, 2007, 7, 3452-3461.	9.1	219
66	Neutral and Charged Exciton Fine Structure in Single Lead Halide Perovskite Nanocrystals Revealed by Magneto-optical Spectroscopy. Nano Letters, 2017, 17, 2895-2901.	9.1	216
67	Electrochemical Techniques in Battery Research: A Tutorial for Nonelectrochemists. Advanced Energy Materials, 2019, 9, 1900747.	19.5	216
68	The State of Nanoparticle-Based Nanoscience and Biotechnology: Progress, Promises, and Challenges. ACS Nano, 2012, 6, 8468-8483.	14.6	211
69	The Future of Layer-by-Layer Assembly: A Tribute to <i>ACS Nano</i> Associate Editor Helmuth MÃ¶hwald. ACS Nano, 2019, 13, 6151-6169.	14.6	211
70	Growth mechanism of strongly emitting CH3NH3PbBr3 perovskite nanocrystals with a tunable bandgap. Nature Communications, 2017, 8, 996.	12.8	210
71	Simultaneous Strontium Doping and Chlorine Surface Passivation Improve Luminescence Intensity and Stability of CsPbI₃ Nanocrystals Enabling Efficient Lightâ€Emitting Devices. Advanced Materials, 2018, 30, e1804691.	21.0	210
72	Etching of Colloidal InP Nanocrystals with Fluorides:â€‰ Photochemical Nature of the Process Resulting in High Photoluminescence Efficiency. Journal of Physical Chemistry B, 2002, 106, 12659-12663.	2.6	209

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73	Graphitic Nitrogen Doping in Carbon Dots Causes Red-Shifted Absorption. Journal of Physical Chemistry C, 2016, 120, 1303-1308.	3.1	207
74	Improved Stability and Photodetector Performance of CsPbI₃ Perovskite Quantum Dots by Ligand Exchange with Aminoethanethiol. Advanced Functional Materials, 2019, 29, 1902446.	14.9	206
75	Spontaneous Silver Doping and Surface Passivation of CsPbI₃ Perovskite Active Layer Enable Light-Emitting Devices with an External Quantum Efficiency of 11.2%. ACS Energy Letters, 2018, 3, 1571-1577.	17.4	205
76	Energy transfer with semiconductor nanocrystals. Journal of Materials Chemistry, 2009, 19, 1208-1221.	6.7	204
77	Hole scavenger redox potentials determine quantum efficiency and stability of Pt-decorated CdS nanorods for photocatalytic hydrogen generation. Applied Physics Letters, 2012, 100, .	3.3	202
78	Fabrication of efficient planar perovskite solar cells using a one-step chemical vapor deposition method. Scientific Reports, 2015, 5, 14083.	3.3	200
79	Self-Assembled Binary Superlattices of CdSe and Au Nanocrystals and Their Fluorescence Properties. Journal of the American Chemical Society, 2008, 130, 3274-3275.	13.7	197
80	Magnetic Targeting and Cellular Uptake of Polymer Microcapsules Simultaneously Functionalized with Magnetic and Luminescent Nanocrystals. Langmuir, 2005, 21, 4262-4265.	3.5	192
81	Luminescence Properties of Thiol-Stabilized CdTe Nanocrystals. Journal of Physical Chemistry B, 1999, 103, 10109-10113.	2.6	190
82	Semiconductor Nanocrystal Quantum Dots as Solar Cell Components and Photosensitizers: Material, Charge Transfer, and Separation Aspects of Some Device Topologies. Journal of Physical Chemistry Letters, 2011, 2, 1879-1887.	4.6	189
83	Quantum dot field effect transistors. Materials Today, 2013, 16, 312-325.	14.2	188
84	Single gold nanostars enhance Raman scattering. Applied Physics Letters, 2009, 94, .	3.3	185
85	Synthesis, optical properties and applications of light-emitting copper nanoclusters. Nanoscale Horizons, 2017, 2, 135-146.	8.0	184
86	Hybrid nanocomposite materials with organic and inorganic components for opto-electronic devices. Journal of Materials Chemistry, 2008, 18, 1064.	6.7	183
87	Influence of molecular fluorophores on the research field of chemically synthesized carbon dots. Nano Today, 2018, 23, 124-139.	11.9	181
88	Luminescent Polymer Microcapsules Addressable by a Magnetic Field. Langmuir, 2004, 20, 1449-1452.	3.5	180
89	Cascaded FRET in Conjugated Polymer/Quantum Dot/Dye-Labeled DNA Complexes for DNA Hybridization Detection. ACS Nano, 2009, 3, 4127-4131.	14.6	179
90	Influence of Doping and Temperature on Solvatochromic Shifts in Optical Spectra of Carbon Dots. Journal of Physical Chemistry C, 2016, 120, 10591-10604.	3.1	179

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91	Colloidal CdS nanorods decorated with subnanometer sized Pt clusters for photocatalytic hydrogen generation. Applied Physics Letters, 2010, 97, .	3.3	176
92	Combination of carbon dot and polymer dot phosphors for white light-emitting diodes. Nanoscale, 2015, 7, 12045-12050.	5.6	176
93	Colloidal nanocrystals for telecommunications. Complete coverage of the low-loss fiber windows by mercury telluride quantum dot. Pure and Applied Chemistry, 2000, 72, 295-307.	1.9	175
94	Selective Excitation of Individual Plasmonic Hotspots at the Tips of Single Gold Nanostars. Nano Letters, 2011, 11, 402-407.	9.1	175
95	Multilevel Data Encryption Using Thermalâ€Treatment Controlled Room Temperature Phosphorescence of Carbon Dot/Polyvinylalcohol Composites. Advanced Science, 2018, 5, 1800795.	11.2	173
96	25th Anniversary Article: Ion Exchange in Colloidal Nanocrystals. Advanced Materials, 2013, 25, 6923-6944.	21.0	170
97	Bright Orange Electroluminescence from Lead-Free Two-Dimensional Perovskites. ACS Energy Letters, 2019, 4, 242-248.	17.4	166
98	Core-Shell Structures Formed by the Solvent-Controlled Precipitation of Luminescent CdTe Nanocrystals on Latex Spheres. Advanced Materials, 2001, 13, 1684-1687.	21.0	159
99	Progress in the Light Emission of Colloidal Semiconductor Nanocrystals. Small, 2010, 6, 1364-1378.	10.0	159
100	Surface Plasmon Enhanced Energy Transfer between Donor and Acceptor CdTe Nanocrystal Quantum Dot Monolayers. Nano Letters, 2011, 11, 3341-3345.	9.1	159
101	The contribution of particle core and surface to strain, disorder and vibrations in thiolcapped CdTe nanocrystals. Journal of Chemical Physics, 1998, 108, 7807-7815.	3.0	153
102	Labeling of Biocompatible Polymer Microcapsules with Near-Infrared Emitting Nanocrystals. Nano Letters, 2003, 3, 369-372.	9.1	153
103	Self-Monitoring and Self-Delivery of Photosensitizer-Doped Nanoparticles for Highly Effective Combination Cancer Therapy <i>in Vitro</i> and <i>in Vivo</i>. ACS Nano, 2015, 9, 9741-9756.	14.6	149
104	Encapsulating Silica/Antimony into Porous Electrospun Carbon Nanofibers with Robust Structure Stability for High-Efficiency Lithium Storage. ACS Nano, 2018, 12, 3406-3416.	14.6	149
105	Layer-by-Layer Assembled Films of HgTe Nanocrystals with Strong Infrared Emission. Chemistry of Materials, 2000, 12, 1526-1528.	6.7	146
106	Wet Chemical Synthesis of Highly Luminescent HgTe/CdS Core/Shell Nanocrystals. Advanced Materials, 2000, 12, 123-125.	21.0	145
107	Magnetically Engineered Semiconductor Quantum Dots as Multimodal Imaging Probes. Advanced Materials, 2014, 26, 6367-6386.	21.0	145
108	Photoaligned Nanorod Enhancement Films with Polarized Emission for Liquidâ€Crystalâ€Display Applications. Advanced Materials, 2017, 29, 1701091.	21.0	142

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109	Electrical control of FÃ¶rster energy transfer. Nature Materials, 2006, 5, 777-781.	27.5	141
110	Hydrogen Peroxide Assisted Synthesis of Highly Luminescent Sulfur Quantum Dots. Angewandte Chemie - International Edition, 2019, 58, 7040-7044.	13.8	137
111	Bright CsPbI₃ Perovskite Quantum Dot Light-Emitting Diodes with Top-Emitting Structure and a Low Efficiency Roll-Off Realized by Applying Zirconium Acetylacetonate Surface Modification. Nano Letters, 2020, 20, 2829-2836.	9.1	137
112	sp²â€"sp³-Hybridized Atomic Domains Determine Optical Features of Carbon Dots. ACS Nano, 2019, 13, 10737-10744.	14.6	136
113	Luminescent CdTe nanocrystals as ion probes and pH sensors in aqueous solutions. Colloids and Surfaces A: Physicochemical and Engineering Aspects, 2006, 281, 40-43.	4.7	135
114	Nanocrystalline CdTe and CdTe(S) particles: wet chemical preparation, size-dependent optical properties and perspectives of optoelectronic applications. Materials Science and Engineering B: Solid-State Materials for Advanced Technology, 2000, 69-70, 435-440.	3.5	133
115	Charge Separation in Type II Tunneling Multilayered Structures of CdTe and CdSe Nanocrystals Directly Proven by Surface Photovoltage Spectroscopy. Journal of the American Chemical Society, 2010, 132, 5981-5983.	13.7	133
116	Phosphine-free synthesis of monodisperse CdSe nanocrystals in olive oil. Journal of Materials Chemistry, 2006, 16, 3391.	6.7	132
117	Template Synthesis of CuInS₂ Nanocrystals from In₂S₃ Nanoplates and Their Application as Counter Electrodes in Dye-Sensitized Solar Cells. Chemistry of Materials, 2015, 27, 5949-5956.	6.7	132
118	Wavelength, Concentration, and Distance Dependence of Nonradiative Energy Transfer to a Plane of Gold Nanoparticles. ACS Nano, 2012, 6, 9283-9290.	14.6	131
119	Multiexcitonic Emission in Zero-Dimensional Cs₂ZrCl₆:Sb³⁺ Perovskite Crystals. Journal of the American Chemical Society, 2021, 143, 17599-17606.	13.7	131
120	Fast energy transfer in layer-by-layer assembled CdTe nanocrystal bilayers. Applied Physics Letters, 2004, 84, 2904-2906.	3.3	130
121	Experimental and Theoretical Investigation of the Distance Dependence of Localized Surface Plasmon Coupled FÃ¶rster Resonance Energy Transfer. ACS Nano, 2014, 8, 1273-1283.	14.6	130
122	Ruthenium(II) Complex Incorporated UiO-67 Metalâ€"Organic Framework Nanoparticles for Enhanced Two-Photon Fluorescence Imaging and Photodynamic Cancer Therapy. ACS Applied Materials & Interfaces, 2017, 9, 5699-5708.	8.0	129
123	Quantum Dot Microdrop Laser. Nano Letters, 2008, 8, 1709-1712.	9.1	128
124	Combined Atomic Force Microscopy and Optical Microscopy Measurements as a Method To Investigate Particle Uptake by Cells. Small, 2006, 2, 394-400.	10.0	127
125	Aggregated Molecular Fluorophores in the Ammonothermal Synthesis of Carbon Dots. Chemistry of Materials, 2017, 29, 10352-10361.	6.7	126
126	Carbon dot hybrids with oligomeric silsesquioxane: solid-state luminophores with high photoluminescence quantum yield and applicability in white light emitting devices. Chemical Communications, 2015, 51, 2950-2953.	4.1	125

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127	Water-resistant perovskite nanodots enable robust two-photon lasing in aqueous environment. Nature Communications, 2020, 11, 1192.	12.8	123
128	Room-Temperature Solution-Processed NiO_{<i>x</i>}:PbI₂ Nanocomposite Structures for Realizing High-Performance Perovskite Photodetectors. ACS Nano, 2016, 10, 6808-6815.	14.6	122
129	Spectrally Tunable Solid State Fluorescence and Roomâ€Temperature Phosphorescence of Carbon Dots Synthesized via Seeded Growth Method. Advanced Optical Materials, 2019, 7, 1801599.	7.3	122
130	Electrochemical synthesis of CdTe nanocrystal/polypyrrole composites for optoelectronic applications. Journal of Materials Chemistry, 2000, 10, 2163-2166.	6.7	121
131	Delayed Photoelectron Transfer in Ptâ€Decorated CdS Nanorods under Hydrogen Generation Conditions. Small, 2012, 8, 291-297.	10.0	119
132	Hydrogen Peroxideâ€Treated Carbon Dot Phosphor with a Bathochromicâ€Shifted, Aggregationâ€Enhanced Emission for Lightâ€Emitting Devices and Visible Light Communication. Advanced Science, 2018, 5, 1800369.	11.2	119
133	Cytotoxicity of nanoparticle-loaded polymer capsules. Talanta, 2005, 67, 486-491.	5.5	118
134	Electrostatic Assembly Guided Synthesis of Highly Luminescent Carbonâ€Nanodots@BaSO₄ Hybrid Phosphors with Improved Stability. Small, 2017, 13, 1602055.	10.0	118
135	Covalent Encapsulation of Sulfur in a MOFâ€Derived S, Nâ€Doped Porous Carbon Host Realized via the Vaporâ€Infiltration Method Results in Enhanced Sodiumâ€"Sulfur Battery Performance. Advanced Energy Materials, 2020, 10, 2000931.	19.5	118
136	Hybrid Colloidal Heterostructures of Anisotropic Semiconductor Nanocrystals Decorated with Noble Metals: Synthesis and Function. Advanced Functional Materials, 2011, 21, 1547-1556.	14.9	117
137	Photocurrent Enhancement of HgTe Quantum Dot Photodiodes by Plasmonic Gold Nanorod Structures. ACS Nano, 2014, 8, 8208-8216.	14.6	116
138	Advances in metal halide perovskite nanocrystals: Synthetic strategies, growth mechanisms, and optoelectronic applications. Materials Today, 2020, 32, 204-221.	14.2	114
139	Thiol-capped CdTe nanocrystals: progress and perspectives of the related research fields. Physical Chemistry Chemical Physics, 2010, 12, 8685.	2.8	113
140	Hydrothermal synthesis of hierarchical SnO₂microspheres for gas sensing and lithium-ion batteries applications: Fluoride-mediated formation of solid and hollow structures. Journal of Materials Chemistry, 2012, 22, 2140-2148.	6.7	112
141	Heterojunction Engineering of CdTe and CdSe Quantum Dots on TiO₂ Nanotube Arrays: Intricate Effects of Sizeâ€Dependency and Interfacial Contact on Photoconversion Efficiencies. Advanced Functional Materials, 2012, 22, 2821-2829.	14.9	112
142	Super-Efficient Exciton Funneling in Layer-by-Layer Semiconductor Nanocrystal Structures. Advanced Materials, 2005, 17, 769-773.	21.0	111
143	Mercury Telluride Quantum Dot Based Phototransistor Enabling High-Sensitivity Room-Temperature Photodetection at 2000 nm. ACS Nano, 2017, 11, 5614-5622.	14.6	110
144	Revealing the Formation Mechanism of CsPbBr₃ Perovskite Nanocrystals Produced via a Slowedâ€Down Microwaveâ€Assisted Synthesis. Angewandte Chemie - International Edition, 2018, 57, 5833-5837.	13.8	109

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145	Strongly Emissive Leadâ€Free 0D Cs₃Cu₂I₅ Perovskites Synthesized by a Room Temperature Solvent Evaporation Crystallization for Downâ€Conversion Lightâ€Emitting Devices and Fluorescent Inks. Advanced Optical Materials, 2020, 8, 1901723.	7.3	109
146	Engineering of Facets, Band Structure, and Gasâ€Sensing Properties of Hierarchical Sn²⁺â€Doped SnO₂ Nanostructures. Advanced Functional Materials, 2013, 23, 4847-4853.	14.9	108
147	Temperature-Dependent Exciton and Trap-Related Photoluminescence of CdTe Quantum Dots Embedded in a NaCl Matrix: Implication in Thermometry. Small, 2016, 12, 466-476.	10.0	107
148	Energy Transfer versus Charge Separation in Type-II Hybrid Organicâˆ'Inorganic Nanocomposites. Nano Letters, 2009, 9, 2636-2640.	9.1	106
149	Monitoring surface charge migration in the spectral dynamics of singleCdSeâˆ•CdSnanodot/nanorod heterostructures. Physical Review B, 2005, 72, .	3.2	105
150	Room-Temperature Exciton Storage in Elongated Semiconductor Nanocrystals. Physical Review Letters, 2007, 98, 017401.	7.8	105
151	Mechanisms underlying toxicity induced by CdTe quantum dots determined in an invertebrate model organism. Biomaterials, 2012, 33, 1991-2000.	11.4	105
152	Polyhedral Oligomeric Silsesquioxane Enhances the Brightness of Perovskite Nanocrystal-Based Green Light-Emitting Devices. Journal of Physical Chemistry Letters, 2016, 7, 4398-4404.	4.6	105
153	Chiral carbon dots: synthesis, optical properties, and emerging applications. Light: Science and Applications, 2022, 11, 75.	16.6	105
154	Encapsulating Cobalt Nanoparticles in Interconnected Nâ€Doped Hollow Carbon Nanofibers with Enriched Coï£¿Nï£¿C Moiety for Enhanced Oxygen Electrocatalysis in Znâ€Air Batteries. Advanced Science, 2021, 8, e2101438.	11.2	104
155	Chemistry and engineering of cyclodextrins for molecular imaging. Chemical Society Reviews, 2017, 46, 6379-6419.	38.1	103
156	Cesium Lead Chloride/Bromide Perovskite Quantum Dots with Strong Blue Emission Realized via a Nitrate-Induced Selective Surface Defect Elimination Process. Journal of Physical Chemistry Letters, 2019, 10, 90-96.	4.6	103
157	Honeycomb-like carbon nanoflakes as a host for SnO₂ nanoparticles allowing enhanced lithium storage performance. Journal of Materials Chemistry A, 2017, 5, 6817-6824.	10.3	101
158	Stable, Strongly Emitting Cesium Lead Bromide Perovskite Nanorods with High Optical Gain Enabled by an Intermediate Monomer Reservoir Synthetic Strategy. Nano Letters, 2019, 19, 6315-6322.	9.1	101
159	A light-emitting device based on a CdTe nanocrystal/polyaniline composite. Physical Chemistry Chemical Physics, 1999, 1, 1787-1789.	2.8	98
160	Topâ€Down Fabrication of Stable Methylammonium Lead Halide Perovskite Nanocrystals by Employing a Mixture of Ligands as Coordinating Solvents. Angewandte Chemie - International Edition, 2017, 56, 9571-9576.	13.8	98
161	Poly(vinylpyrrolidone) supported copper nanoclusters: glutathione enhanced blue photoluminescence for application in phosphor converted light emitting devices. Nanoscale, 2016, 8, 7197-7202.	5.6	97
162	Light-permeable, photoluminescent microbatteries embedded in the color filter of a screen. Energy and Environmental Science, 2018, 11, 2414-2422.	30.8	97

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