Liberato Manna

List of Publications by Year
in descending order

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Version: 2024-02-01

439 papers	52,847 citations	1371 108 h-index	1505 219 g-index
463 all docs	463 docs citations	463 times ranked	37825 citing authors

#	Article	IF	Citations
1	Shape control of CdSe nanocrystals. Nature, 2000, 404, 59-61.	27.8	4,216
2	Tuning the Optical Properties of Cesium Lead Halide Perovskite Nanocrystals by Anion Exchange Reactions. Journal of the American Chemical Society, 2015, 137, 10276-10281.	13.7	1,765
3	Synthesis of Soluble and Processable Rod-, Arrow-, Teardrop-, and Tetrapod-Shaped CdSe Nanocrystals. Journal of the American Chemical Society, 2000, 122, 12700-12706.	13.7	1,719
4	Genesis, challenges and opportunities for colloidal lead halide perovskite nanocrystals. Nature Materials, 2018, 17, 394-405.	27.5	1,632
5	Controlled growth of tetrapod-branched inorganic nanocrystals. Nature Materials, 2003, 2, 382-385.	27.5	1,373
6	Metal Halide Perovskite Nanocrystals: Synthesis, Post-Synthesis Modifications, and Their Optical Properties. Chemical Reviews, 2019, 119, 3296-3348.	47.7	1,181
7	Linearly Polarized Emission from Colloidal Semiconductor Quantum Rods. Science, 2001, 292, 2060-2063.	12.6	1,136
8	Colloidal nanocrystal heterostructures with linear and branched topology. Nature, 2004, 430, 190-195.	27.8	1,127
9	Synthesis and Micrometer-Scale Assembly of Colloidal CdSe/CdS Nanorods Prepared by a Seeded Growth Approach. Nano Letters, 2007, 7, 2942-2950.	9.1	1,098
10	Prospects of Nanoscience with Nanocrystals. ACS Nano, 2015, 9, 1012-1057.	14.6	1,005
11	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
12	Synthesis, properties and perspectives of hybrid nanocrystal structures. Chemical Society Reviews, 2006, 35, 1195.	38.1	855
13	Solution Synthesis Approach to Colloidal Cesium Lead Halide Perovskite Nanoplatelets with Monolayer-Level Thickness Control. Journal of the American Chemical Society, 2016, 138, 1010-1016.	13.7	747
14	State of the Art and Prospects for Halide Perovskite Nanocrystals. ACS Nano, 2021, 15, 10775-10981.	14.6	705
15	Water-Soluble Iron Oxide Nanocubes with High Values of Specific Absorption Rate for Cancer Cell Hyperthermia Treatment. ACS Nano, 2012, 6, 3080-3091.	14.6	638
16	Metal-enhanced fluorescence of colloidal nanocrystals with nanoscale control. Nature Nanotechnology, 2006, 1, 126-130.	31.5	573
17	Forging Colloidal Nanostructures via Cation Exchange Reactions. Chemical Reviews, 2016, 116, 10852-10887.	47.7	551
18	Strongly emissive perovskite nanocrystal inks for high-voltage solar cells. Nature Energy, 2017, 2, .	39.5	544

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19	Epitaxial Growth and Photochemical Annealing of Graded CdS/ZnS Shells on Colloidal CdSe Nanorods. Journal of the American Chemical Society, 2002, 124, 7136-7145.	13.7	539
20	Plasmonic Copper Sulfide Nanocrystals Exhibiting Near-Infrared Photothermal and Photodynamic Therapeutic Effects. ACS Nano, 2015, 9, 1788-1800.	14.6	536
21	Benzoyl Halides as Alternative Precursors for the Colloidal Synthesis of Lead-Based Halide Perovskite Nanocrystals. Journal of the American Chemical Society, 2018, 140, 2656-2664.	13.7	490
22	Nearly Monodisperse Insulator Cs₄PbX₆ (X = Cl, Br, I) Nanocrystals, Their Mixed Halide Compositions, and Their Transformation into CsPbX₃ Nanocrystals. Nano Letters, 2017, 17, 1924-1930.	9.1	488
23	Colloidal Synthesis of Quantum Confined Single Crystal CsPbBr₃ Nanosheets with Lateral Size Control up to the Micrometer Range. Journal of the American Chemical Society, 2016, 138, 7240-7243.	13.7	446
24	Continuous-wave biexciton lasing at room temperature using solution-processed quantum wells. Nature Nanotechnology, 2014, 9, 891-895.	31.5	433
25	Reversible Tunability of the Near-Infrared Valence Band Plasmon Resonance in Cu_{2â€“x}Se Nanocrystals. Journal of the American Chemical Society, 2011, 133, 11175-11180.	13.7	421
26	From iron oxide nanoparticles towards advanced iron-based inorganic materials designed for biomedical applications. Pharmacological Research, 2010, 62, 126-143.	7.1	417
27	Hierarchical self-assembly of suspended branched colloidal nanocrystals into superlattice structures. Nature Materials, 2011, 10, 872-876.	27.5	415
28	Colloidal Synthesis of Double Perovskite Cs₂AgInCl₆ and Mn-Doped Cs₂AgInCl₆ Nanocrystals. Journal of the American Chemical Society, 2018, 140, 12989-12995.	13.7	397
29	Role of Acidâ€“Base Equilibria in the Size, Shape, and Phase Control of Cesium Lead Bromide Nanocrystals. ACS Nano, 2018, 12, 1704-1711.	14.6	395
30	New materials for tunable plasmonic colloidal nanocrystals. Chemical Society Reviews, 2014, 43, 3957-3975.	38.1	383
31	Copper Sulfide Nanocrystals with Tunable Composition by Reduction of Covellite Nanocrystals with Cu⁺ Ions. Journal of the American Chemical Society, 2013, 135, 17630-17637.	13.7	377
32	On the Development of Colloidal Nanoparticles towards Multifunctional Structures and their Possible Use for Biological Applications. Small, 2004, 1, 48-63.	10.0	353
33	Subnanometer Local Temperature Probing and Remotely Controlled Drug Release Based on Azo-Functionalized Iron Oxide Nanoparticles. Nano Letters, 2013, 13, 2399-2406.	9.1	351
34	X-ray Lithography on Perovskite Nanocrystals Films: From Patterning with Anion-Exchange Reactions to Enhanced Stability in Air and Water. ACS Nano, 2016, 10, 1224-1230.	14.6	320
35	Fluorescent Alloy CsPb_xMn_{1â€“x}I₃ Perovskite Nanocrystals with High Structural and Optical Stability. ACS Energy Letters, 2017, 2, 2183-2186.	17.4	305
36	The Effect of Organic Ligand Binding on the Growth of CdSe Nanoparticles Probed by Ab Initio Calculations. Nano Letters, 2004, 4, 2361-2365.	9.1	301

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37	Sequential Cation Exchange in Nanocrystals: Preservation of Crystal Phase and Formation of Metastable Phases. Nano Letters, 2011, 11, 4964-4970.	9.1	300
38	17.6% stabilized efficiency in low-temperature processed planar perovskite solar cells. Energy and Environmental Science, 2015, 8, 2365-2370.	30.8	300
39	Semiconductor Nanorod Liquid Crystals. Nano Letters, 2002, 2, 557-560.	9.1	297
40	Strongly Fluorescent Quaternary Cuâ€“Inâ€“Znâ€“S Nanocrystals Prepared from Cu_{1-x}InS₂ Nanocrystals by Partial Cation Exchange. Chemistry of Materials, 2012, 24, 2400-2406.	6.7	291
41	Sequential Growth of Magic-Size CdSe Nanocrystals. Advanced Materials, 2007, 19, 548-552.	21.0	289
42	First-Principles Modeling of Unpassivated and Surfactant-Passivated Bulk Facets of Wurtzite CdSe:â€‰ A Model System for Studying the Anisotropic Growth of CdSe Nanocrystals. Journal of Physical Chemistry B, 2005, 109, 6183-6192.	2.6	280
43	Plasmonic doped semiconductor nanocrystals: Properties, fabrication, applications and perspectives. Physics Reports, 2017, 674, 1-52.	25.6	252
44	Assembly of Colloidal Semiconductor Nanorods in Solution by Depletion Attraction. Nano Letters, 2010, 10, 743-749.	9.1	250
45	CdSe/CdS/ZnS Double Shell Nanorods with High Photoluminescence Efficiency and Their Exploitation As Biolabeling Probes. Journal of the American Chemical Society, 2009, 131, 2948-2958.	13.7	247
46	In Situ Transmission Electron Microscopy Study of Electron Beam-Induced Transformations in Colloidal Cesium Lead Halide Perovskite Nanocrystals. ACS Nano, 2017, 11, 2124-2132.	14.6	246
47	The Impact of the Crystallization Processes on the Structural and Optical Properties of Hybrid Perovskite Films for Photovoltaics. Journal of Physical Chemistry Letters, 2014, 5, 3836-3842.	4.6	238
48	Phosphine-Free Synthesis of p-Type Copper(I) Selenide Nanocrystals in Hot Coordinating Solvents. Journal of the American Chemical Society, 2010, 132, 8912-8914.	13.7	232
49	Selective Growth of PbSe on One or Both Tips of Colloidal Semiconductor Nanorods. Nano Letters, 2005, 5, 445-449.	9.1	228
50	What Defines a Halide Perovskite?. ACS Energy Letters, 2020, 5, 604-610.	17.4	228
51	Efficient, fast and reabsorption-free perovskite nanocrystal-based sensitized plastic scintillators. Nature Nanotechnology, 2020, 15, 462-468.	31.5	226
52	Doped Halide Perovskite Nanocrystals for Reabsorption-Free Luminescent Solar Concentrators. ACS Energy Letters, 2017, 2, 2368-2377.	17.4	224
53	Shape and Phase Control of Colloidal ZnSe Nanocrystals. Chemistry of Materials, 2005, 17, 1296-1306.	6.7	220
54	Colloidal Synthesis of Strongly Fluorescent CsPbBr₃ Nanowires with Width Tunable down to the Quantum Confinement Regime. Chemistry of Materials, 2016, 28, 6450-6454.	6.7	219

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55	Tetrapod-Shaped Colloidal Nanocrystals of IIâ^'VI Semiconductors Prepared by Seeded Growth. Journal of the American Chemical Society, 2009, 131, 2274-2282.	13.7	211
56	Zero-Dimensional Cesium Lead Halides: History, Properties, and Challenges. Journal of Physical Chemistry Letters, 2018, 9, 2326-2337.	4.6	210
57	The Many â€œFacetsâ€•of Halide Ions in the Chemistry of Colloidal Inorganic Nanocrystals. Chemical Reviews, 2018, 118, 7804-7864.	47.7	209
58	Heterodimers Based on CoPt3â^'Au Nanocrystals with Tunable Domain Size. Journal of the American Chemical Society, 2006, 128, 6690-6698.	13.7	202
59	Emissive Bi-Doped Double Perovskite Cs₂Ag_{1â€“x}Na_xInCl₆ Nanocrystals. ACS Energy Letters, 2019, 4, 1976-1982.	17.4	198
60	Shape control and applications of nanocrystals. Philosophical Transactions Series A, Mathematical, Physical, and Engineering Sciences, 2003, 361, 241-257.	3.4	184
61	Semiconductor Quantum Rods as Single Molecule Fluorescent Biological Labels. Nano Letters, 2007, 7, 179-182.	9.1	180
62	One-Pot Synthesis and Characterization of Size-Controlled Bimagnetic FePtâ^'Iron Oxide Heterodimer Nanocrystals. Journal of the American Chemical Society, 2008, 130, 1477-1487.	13.7	179
63	Determination of Band Offsets in Heterostructured Colloidal Nanorods Using Scanning Tunneling Spectroscopy. Nano Letters, 2008, 8, 2954-2958.	9.1	179
64	Postsynthesis Transformation of Insulating Cs₄PbBr₆ Nanocrystals into Bright Perovskite CsPbBr₃ through Physical and Chemical Extraction of CsBr. ACS Energy Letters, 2017, 2, 2445-2448.	17.4	177
65	Cu Vacancies Boost Cation Exchange Reactions in Copper Selenide Nanocrystals. Journal of the American Chemical Society, 2015, 137, 9315-9323.	13.7	174
66	Synthesis and Characterization of CdS Nanoclusters in a Quaternary Microemulsion:â€‰ the Role of the Cosurfactant. Journal of Physical Chemistry B, 2000, 104, 8391-8397.	2.6	173
67	From Binary Cu₂S to Ternary Cuâ€“Inâ€“S and Quaternary Cuâ€“Inâ€“Znâ€“S Nanocrystals with Tunable Composition via Partial Cation Exchange. ACS Nano, 2015, 9, 521-531.	14.6	173
68	Simultaneous Cationic and Anionic Ligand Exchange For Colloidally Stable CsPbBr₃ Nanocrystals. ACS Energy Letters, 2019, 4, 819-824.	17.4	173
69	Octapod-Shaped Colloidal Nanocrystals of Cadmium Chalcogenides via â€œOne-Potâ€•Cation Exchange and Seeded Growth. Nano Letters, 2010, 10, 3770-3776.	9.1	171
70	Leadâ€Free Double Perovskite Cs₂AgInCl₆. Angewandte Chemie - International Edition, 2021, 60, 11592-11603.	13.8	168
71	Multifunctional Nanobeads Based on Quantum Dots and Magnetic Nanoparticles: Synthesis and Cancer Cell Targeting and Sorting. ACS Nano, 2011, 5, 1109-1121.	14.6	166
72	Multiple Wurtzite Twinning in CdTe Nanocrystals Induced by Methylphosphonic Acid. Journal of the American Chemical Society, 2006, 128, 748-755.	13.7	165

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73	Plasmon Dynamics in Colloidal Cu_{2â€“x}Se Nanocrystals. Nano Letters, 2011, 11, 4711-4717.	9.1	158
74	Topologically Controlled Growth of Magnetic-Metal-Functionalized Semiconductor Oxide Nanorods. Nano Letters, 2007, 7, 1386-1395.	9.1	155
75	Epitaxial CdSe-Au Nanocrystal Heterostructures by Thermal Annealing. Nano Letters, 2010, 10, 3028-3036.	9.1	152
76	Polymer-Free Films of Inorganic Halide Perovskite Nanocrystals as UV-to-White Color-Conversion Layers in LEDs. Chemistry of Materials, 2016, 28, 2902-2906.	6.7	152
77	Generalized One-Pot Synthesis of Copper Sulfide, Selenide-Sulfide, and Telluride-Sulfide Nanoparticles. Chemistry of Materials, 2014, 26, 1442-1449.	6.7	150
78	Ultrafast Electronâ^'Hole Dynamics in Core/Shell CdSe/CdS Dot/Rod Nanocrystals. Nano Letters, 2008, 8, 4582-4587.	9.1	146
79	Temperature and Size Dependence of Nonradiative Relaxation and Excitonâ^'Phonon Coupling in Colloidal CdTe Quantum Dots. Journal of Physical Chemistry C, 2007, 111, 5846-5849.	3.1	144
80	Resurfacing halide perovskite nanocrystals. Science, 2019, 364, 833-834.	12.6	143
81	Shape Control of Colloidal Semiconductor Nanocrystals. Journal of Cluster Science, 2002, 13, 521-532.	3.3	142
82	FÃ¶rster energy transfer from blue-emitting polymers to colloidal CdSeâ^•ZnS core shell quantum dots. Applied Physics Letters, 2004, 85, 4169-4171.	3.3	142
83	Co_xFe_{3â€“x}O₄ Nanocubes for Theranostic Applications: Effect of Cobalt Content and Particle Size. Chemistry of Materials, 2016, 28, 1769-1780.	6.7	142
84	Changing the Dimensionality of Cesium Lead Bromide Nanocrystals by Reversible Postsynthesis Transformations with Amines. Chemistry of Materials, 2017, 29, 4167-4171.	6.7	142
85	Colloidal Synthesis and Characterization of Tetrapod-Shaped Magnetic Nanocrystals. Nano Letters, 2006, 6, 1966-1972.	9.1	140
86	Physical properties of elongated inorganic nanoparticles. Physics Reports, 2011, 501, 75-221.	25.6	138
87	Blue-UV-Emitting ZnSe(Dot)/ZnS(Rod) Core/Shell Nanocrystals Prepared from CdSe/CdS Nanocrystals by Sequential Cation Exchange. ACS Nano, 2012, 6, 1637-1647.	14.6	138
88	Synthesis of Uniform Disk-Shaped Copper Telluride Nanocrystals and Cation Exchange to Cadmium Telluride Quantum Disks with Stable Red Emission. Journal of the American Chemical Society, 2013, 135, 12270-12278.	13.7	138
89	Cu_{3-x}P Nanocrystals as a Material Platform for Near-Infrared Plasmonics and Cation Exchange Reactions. Chemistry of Materials, 2015, 27, 1120-1128.	6.7	137
90	The Phosphine Oxide Route toward Lead Halide Perovskite Nanocrystals. Journal of the American Chemical Society, 2018, 140, 14878-14886.	13.7	136

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91	Water solubilization of hydrophobic nanocrystals by means of poly(maleic) Tj ETQq1 1 0.784314 rgBT /Overlock 10 Tf 50 742 Td (anhyc	6.7	133
92	Shape-Pure, Nearly Monodispersed CsPbBr₃ Nanocubes Prepared Using Secondary Aliphatic Amines. Nano Letters, 2018, 18, 7822-7831.	9.1	132
93	Dual Band Electrochromic Devices Based on Nb-Doped TiO₂ Nanocrystalline Electrodes. ACS Nano, 2017, 11, 3576-3584.	14.6	130
94	Polarized Light Emitting Diode by Long-Range Nanorod Self-Assembling on a Water Surface. ACS Nano, 2009, 3, 1506-1512.	14.6	127
95	One pot synthesis of monodisperse water soluble iron oxide nanocrystals with high values of the specific absorption rate. Journal of Materials Chemistry B, 2014, 2, 4426.	5.8	127
96	Colloidal CuFeS₂ Nanocrystals: Intermediate Fe d-Band Leads to High Photothermal Conversion Efficiency. Chemistry of Materials, 2016, 28, 4848-4858.	6.7	126
97	Alkyl Phosphonic Acids Deliver CsPbBr₃ Nanocrystals with High Photoluminescence Quantum Yield and Truncated Octahedron Shape. Chemistry of Materials, 2019, 31, 9140-9147.	6.7	125
98	Alloyed Copper Chalcogenide Nanoplatelets via Partial Cation Exchange Reactions. ACS Nano, 2014, 8, 8407-8418.	14.6	123
99	Lasing in self-assembled microcavities of CdSe/CdS core/shell colloidal quantum rods. Nanoscale, 2010, 2, 931.	5.6	120
100	Fluorescent Asymmetrically Cobalt-Tipped CdSe@CdS Core@Shell Nanorod Heterostructures Exhibiting Room-Temperature Ferromagnetic Behavior. Journal of the American Chemical Society, 2009, 131, 12817-12828.	13.7	119
101	Single-mode tunable laser emission in the single-exciton regime from colloidal nanocrystals. Nature Communications, 2013, 4, 2376.	12.8	118
102	Bright-Emitting Perovskite Films by Large-Scale Synthesis and Photoinduced Solid-State Transformation of CsPbBr₃ Nanoplatelets. ACS Nano, 2017, 11, 10206-10213.	14.6	118
103	Tuning the Lattice Parameter of In_xZn_yP for Highly Luminescent Lattice-Matched Core/Shell Quantum Dots. ACS Nano, 2016, 10, 4754-4762.	14.6	117
104	White organic light-emitting devices with CdSe/ZnS quantum dots as a red emitter. Journal of Applied Physics, 2005, 97, 113501.	2.5	115
105	A sustainable future for photonic colloidal nanocrystals. Chemical Society Reviews, 2015, 44, 5897-5914.	38.1	115
106	Endâ€toâ€End Assembly of Shapeâ€Controlled Nanocrystals via a Nanowelding Approach Mediated by Gold Domains. Advanced Materials, 2009, 21, 550-554.	21.0	114
107	Sn Cation Valency Dependence in Cation Exchange Reactions Involving Cu2-xSe Nanocrystals. Journal of the American Chemical Society, 2014, 136, 16277-16284.	13.7	111
108	Cation Exchange Reactions in Colloidal Branched Nanocrystals. ACS Nano, 2011, 5, 7176-7183.	14.6	110

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109	Understanding the Plasmon Resonance in Ensembles of Degenerately Doped Semiconductor Nanocrystals. Journal of Physical Chemistry C, 2012, 116, 12226-12231.	3.1	109
110	Selective reactions on the tips of colloidal semiconductor nanorods. Journal of Materials Chemistry, 2006, 16, 3952.	6.7	108
111	Colloidal Monolayer Î²-In₂Se₃ Nanosheets with High Photoresponsivity. Journal of the American Chemical Society, 2017, 139, 3005-3011.	13.7	105
112	Role of Nonradiative Defects and Environmental Oxygen on Exciton Recombination Processes in CsPbBr₃ Perovskite Nanocrystals. Nano Letters, 2017, 17, 3844-3853.	9.1	101
113	Multifunctional Nanostructures Based on Inorganic Nanoparticles and Oligothiophenes and Their Exploitation for Cellular Studies. Journal of the American Chemical Society, 2008, 130, 10545-10555.	13.7	98
114	Ultrafast THz Probe of Photoinduced Polarons in Lead-Halide Perovskites. Physical Review Letters, 2019, 122, 166601.	7.8	98
115	Suppression of Biexciton Auger Recombination in CdSe/CdS Dot/Rods: Role of the Electronic Structure in the Carrier Dynamics. Nano Letters, 2010, 10, 3142-3150.	9.1	97
116	Fluorescent-Magnetic Hybrid Nanostructures: Preparation, Properties, and Applications in Biology. IEEE Transactions on Nanobioscience, 2007, 6, 298-308.	3.3	96
117	Reversible Wettability Changes in Colloidal TiO₂ Nanorod Thin-Film Coatings under Selective UV Laser Irradiation. Journal of Physical Chemistry C, 2008, 112, 701-714.	3.1	96
118	From CsPbBr₃ Nano-Inks to Sintered CsPbBr₃â€“CsPb₂Br₅ Films via Thermal Annealing: Implications on Optoelectronic Properties. Journal of Physical Chemistry C, 2017, 121, 11956-11961.	3.1	96
119	Size-Tunable, Hexagonal Plate-like Cu₃P and Janus-like Cuâ€“Cu₃P Nanocrystals. ACS Nano, 2012, 6, 32-41.	14.6	94
120	Colloidal Branched Semiconductor Nanocrystals: State of the Art and Perspectives. Accounts of Chemical Research, 2013, 46, 1387-1396.	15.6	94
121	Hollow and Porous Nickel Cobalt Perselenide Nanostructured Microparticles for Enhanced Electrocatalytic Oxygen Evolution. Chemistry of Materials, 2017, 29, 7032-7041.	6.7	93
122	Exfoliation of Few-Layer Black Phosphorus in Low-Boiling-Point Solvents and Its Application in Li-Ion Batteries. Chemistry of Materials, 2018, 30, 506-516.	6.7	93
123	Trap-Mediated Two-Step Sensitization of Manganese Dopants in Perovskite Nanocrystals. ACS Energy Letters, 2019, 4, 85-93.	17.4	92
124	Stable and Size Tunable CsPbBr₃ Nanocrystals Synthesized with Oleylphosphonic Acid. Nano Letters, 2020, 20, 8847-8853.	9.1	92
125	Intrinsic optical nonlinearity in colloidal seeded grown CdSe/CdS nanostructures: Photoinduced screening of the internal electric field. Physical Review B, 2008, 78, .	3.2	91
126	In situ microscopy of the self-assembly of branched nanocrystals in solution. Nature Communications, 2016, 7, 11213.	12.8	91

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127	Synthesis of highly luminescent wurtzite CdSe/CdS giant-shell nanocrystals using a fast continuous injection route. Journal of Materials Chemistry C, 2014, 2, 3439.	5.5	90
128	Nanoscale Transformations in Covellite (CuS) Nanocrystals in the Presence of Divalent Metal Cations in a Mild Reducing Environment. Chemistry of Materials, 2015, 27, 7531-7537.	6.7	89
129	Squeezing Terahertz Light into Nanovolumes: Nanoantenna Enhanced Terahertz Spectroscopy (NETS) of Semiconductor Quantum Dots. Nano Letters, 2015, 15, 386-391.	9.1	86
130	Investigation into the Photoluminescence Red Shift in Cesium Lead Bromide Nanocrystal Superlattices. Journal of Physical Chemistry Letters, 2019, 10, 655-660.	4.6	86
131	Selfâ€Assembled Multilayers of Vertically Aligned Semiconductor Nanorods on Deviceâ€Scale Areas. Advanced Materials, 2011, 23, 2205-2209.	21.0	83
132	Role of the Crystal Structure in Cation Exchange Reactions Involving Colloidal Cu₂Se Nanocrystals. Journal of the American Chemical Society, 2017, 139, 9583-9590.	13.7	83
133	Sb-Doped Metal Halide Nanocrystals: A 0D versus 3D Comparison. ACS Energy Letters, 2021, 6, 2283-2292.	17.4	83
134	Blue light emitting diodes based on fluorescent CdSeâ•ZnS nanocrystals. Applied Physics Letters, 2007, 90, 051106.	3.3	82
135	Assembly-mediated interplay of dipolar interactions and surface spin disorder in colloidal maghemite nanoclusters. Nanoscale, 2014, 6, 3764-3776.	5.6	79
136	Binder-free graphene as an advanced anode for lithium batteries. Journal of Materials Chemistry A, 2016, 4, 6886-6895.	10.3	79
137	Stable Ligand Coordination at the Surface of Colloidal CsPbBr₃ Nanocrystals. Journal of Physical Chemistry Letters, 2019, 10, 3715-3726.	4.6	77
138	Room temperature-dipolelike single photon source with a colloidal dot-in-rod. Applied Physics Letters, 2010, 96, 033101.	3.3	75
139	Photoconduction Properties in Aligned Assemblies of Colloidal CdSe/CdS Nanorods. ACS Nano, 2010, 4, 1646-1652.	14.6	73
140	Nonlinear Carrier Interactions in Lead Halide Perovskites and the Role of Defects. Journal of the American Chemical Society, 2016, 138, 13604-13611.	13.7	73
141	Ultrafast carrier dynamics in core and core/shell CdSe quantum rods: Role of the surface and interface defects. Physical Review B, 2005, 72, .	3.2	72
142	Ligand exchange of CdSe nanocrystals probed by optical spectroscopy in the visible and mid-IR. Journal of Materials Chemistry, 2008, 18, 2728.	6.7	71
143	A Cast-Mold Approach to Iron Oxide and Pt/Iron Oxide Nanocontainers and Nanoparticles with a Reactive Concave Surface. Journal of the American Chemical Society, 2011, 133, 2205-2217.	13.7	71
144	Colloidal Cu2â”x(SySe1â”y) alloy nanocrystals with controllable crystal phase: synthesis, plasmonic properties, cation exchange and electrochemical lithiation. Journal of Materials Chemistry, 2012, 22, 13023.	6.7	70

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145	Singleâ€Mode Lasing from Colloidal Waterâ€Soluble CdSe/CdS Quantum Dotâ€inâ€Rods. Small, 2015, 11, 1328-1334.	10.0	70
146	High-Efficiency All-Solution-Processed Light-Emitting Diodes Based on Anisotropic Colloidal Heterostructures with Polar Polymer Injecting Layers. Nano Letters, 2015, 15, 5455-5464.	9.1	69
147	Elastomeric Nanocomposite Foams for the Removal of Heavy Metal Ions from Water. ACS Applied Materials & Interfaces, 2015, 7, 14778-14784.	8.0	69
148	Large scale syntheses of colloidal nanomaterials. Nano Today, 2017, 12, 46-63.	11.9	69
149	Directional Anisotropy of the Vibrational Modes in 2D-Layered Perovskites. ACS Nano, 2020, 14, 4689-4697.	14.6	69
150	Low-Temperature Molten Salts Synthesis: CsPbBr₃ Nanocrystals with High Photoluminescence Emission Buried in Mesoporous SiO₂. ACS Energy Letters, 2021, 6, 900-907.	17.4	68
151	Influence of the Ion Coordination Number on Cation Exchange Reactions with Copper Telluride Nanocrystals. Journal of the American Chemical Society, 2016, 138, 7082-7090.	13.7	67
152	Colloidal CsX (X = Cl, Br, I) Nanocrystals and Their Transformation to CsPbX₃ Nanocrystals by Cation Exchange. Chemistry of Materials, 2018, 30, 79-83.	6.7	67
153	Magneticâ€“Fluorescent Colloidal Nanobeads: Preparation and Exploitation in Cell Separation Experiments. Macromolecular Bioscience, 2009, 9, 952-958.	4.1	66
154	Colloidal Synthesis of Cuprite (Cu₂O) Octahedral Nanocrystals and Their Electrochemical Lithiation. ACS Applied Materials & Interfaces, 2013, 5, 2745-2751.	8.0	66
155	Temperature-Driven Transformation of CsPbBr₃ Nanoplatelets into Mosaic Nanotiles in Solution through Self-Assembly. Nano Letters, 2020, 20, 1808-1818.	9.1	66
156	CuIn_xGa_{1â€“x}S₂ Nanocrystals with Tunable Composition and Band Gap Synthesized via a Phosphine-Free and Scalable Procedure. Chemistry of Materials, 2013, 25, 3180-3187.	6.7	65
157	Band structure engineering via piezoelectric fields in strained anisotropic CdSe/CdS nanocrystals. Nature Communications, 2015, 6, 7905.	12.8	65
158	Direct Synthesis of Carbon-Doped TiO₂â€“Bronze Nanowires as Anode Materials for High Performance Lithium-Ion Batteries. ACS Applied Materials & Interfaces, 2015, 7, 25139-25146.	8.0	65
159	Planar Double-Epsilon-Near-Zero Cavities for Spontaneous Emission and Purcell Effect Enhancement. ACS Photonics, 2018, 5, 2287-2294.	6.6	65
160	Assembly of shape-controlled nanocrystals by depletion attraction. Chemical Communications, 2011, 47, 203-205.	4.1	64
161	Influence of Chloride Ions on the Synthesis of Colloidal Branched CdSe/CdS Nanocrystals by Seeded Growth. ACS Nano, 2012, 6, 11088-11096.	14.6	64
162	Compositional Tuning of Carrier Dynamics in Cs₂Na_{1â€“x}Ag_xBiCl₆ Double-Perovskite Nanocrystals. ACS Energy Letters, 2020, 5, 1840-1847.	17.4	63

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