Moungi G Bawendi

List of Publications by Year
in descending order

207 papers	36,583 citations	84 h-index	188 g-index
		5782	3508
218 all docs	218 docs citations	218 times ranked	37991 citing authors

#	Article	IF	Citations
1	Predicting Low Toxicity and Scalable Solvent Systems for Highâ€Speed Rollâ€toâ€Roll Perovskite Manufacturing. Solar Rrl, 2022, 6, 2100567.	3.1	7
2	Quantum Shells Boost the Optical Gain of Lasing Media. ACS Nano, 2022, 16, 3017-3026.	7.3	18
3	Terahertz Field-Induced Reemergence of Quenched Photoluminescence in Quantum Dots. Nano Letters, 2022, , .	4.5	0
4	Designing Highly Luminescent Molecular Aggregates via Bottom-Up Nanoscale Engineering. Journal of Physical Chemistry C, 2022, 126, 754-763.	1.5	3
5	Supramolecular Lattice Deformation and Exciton Trapping in Nanotubular J-Aggregates. Journal of Physical Chemistry C, 2022, 126, 4095-4105.	1.5	3
6	Predicting Low Toxicity and Scalable Solvent Systems for Highâ€Speed Rollâ€toâ€Roll Perovskite Manufacturing. Solar Rrl, 2022, 6, .	3.1	0
7	Efficient perovskite solar cells via improved carrier management. Nature, 2021, 590, 587-593.	13.7	1,972
8	A data fusion approach to optimize compositional stability of halide perovskites. Matter, 2021, 4, 1305-1322.	5.0	75
9	Interfacial Trapâ€Assisted Triplet Generation in Lead Halide Perovskite Sensitized Solidâ€State Upconversion. Advanced Materials, 2021, 33, e2100854.	11.1	18
10	Resolving the Triexciton Recombination Pathway in CdSe/CdS Nanocrystals through State-Specific Correlation Measurements. Nano Letters, 2021, 21, 7457-7464.	4.5	13
11	A high-temperature continuous stirred-tank reactor cascade for the multistep synthesis of InP/ZnS quantum dots. Reaction Chemistry and Engineering, 2021, 6, 459-464.	1.9	14
12	Single-nanometer iron oxide nanoparticles as tissue-permeable MRI contrast agents. Proceedings of the National Academy of Sciences of the United States of America, 2021, 118, .	3.3	20
13	All-optical fluorescence blinking control in quantum dots with ultrafast mid-infrared pulses. Nature Nanotechnology, 2021, 16, 1355-1361.	15.6	21
14	Magneticâ€Fieldâ€Switchable Laser via Optical Pumping of Rubrene. Advanced Materials, 2021, , 2103870.	11.1	6
15	Blue Light Emitting Defective Nanocrystals Composed of Earthâ€Abundant Elements. Angewandte Chemie - International Edition, 2020, 59, 860-867.	7.2	20
16	Blue Light Emitting Defective Nanocrystals Composed of Earthâ€Abundant Elements. Angewandte Chemie, 2020, 132, 870-877.	1.6	12
17	Room-Temperature Phosphorescence and Low-Energy Induced Direct Triplet Excitation of Alq₃ Engineered Crystals. Journal of Physical Chemistry Letters, 2020, 11, 9364-9370.	2.1	4
18	Seedless Continuous Injection Synthesis of Indium Phosphide Quantum Dots as a Route to Large Size and Low Size Dispersity. Chemistry of Materials, 2020, 32, 6532-6539.	3.2	22

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19	Monodisperse and Water-Soluble Quantum Dots for SWIR Imaging via Carboxylic Acid Copolymer Ligands. ACS Applied Materials & Interfaces, 2020, 12, 35845-35855.	4.0	5
20	How machine learning can help select capping layers to suppress perovskite degradation. Nature Communications, 2020, 11, 4172.	5.8	75
21	Nanocrystal synthesis, Î¼fluidic sample dilution and direct extraction of single emission linewidths in continuous flow. Lab on A Chip, 2020, 20, 1975-1980.	3.1	0
22	Non-invasive monitoring of chronic liver disease via near-infrared and shortwave-infrared imaging of endogenous lipofuscin. Nature Biomedical Engineering, 2020, 4, 801-813.	11.6	34
23	Efficient, Flexible, and Ultraâ€Lightweight Inverted PbS Quantum Dots Solar Cells on Allâ€CVDâ€Growth of Parylene/Graphene/oCVD PEDOT Substrate with High Powerâ€perâ€Weight. Advanced Materials Interfaces, 2020, 7, 2000498.	1.9	24
24	Effect of Spectral Diffusion on the Coherence Properties of a Single Quantum Emitter in Hexagonal Boron Nitride. Journal of Physical Chemistry Letters, 2020, 11, 1330-1335.	2.1	31
25	Scalable Synthesis of InAs Quantum Dots Mediated through Indium Redox Chemistry. Journal of the American Chemical Society, 2020, 142, 4088-4092.	6.6	42
26	Luminescent surfaces with tailored angular emission for compact dark-field imaging devices. Nature Photonics, 2020, 14, 310-315.	15.6	33
27	Single Nanocrystal Spectroscopy of Shortwave Infrared Emitters. ACS Nano, 2019, 13, 1042-1049.	7.3	16
28	High-Speed Vapor Transport Deposition of Perovskite Thin Films. ACS Applied Materials & Interfaces, 2019, 11, 32928-32936.	4.0	24
29	Efficient Semitransparent CsPbI₃ Quantum Dots Photovoltaics Using a Graphene Electrode. Small Methods, 2019, 3, 1900449.	4.6	49
30	Decreased Synthesis Costs and Waste Product Toxicity for Lead Sulfide Quantum Dot Ink Photovoltaics. Advanced Sustainable Systems, 2019, 3, 1900061.	2.7	14
31	The effect of structural dimensionality on carrier mobility in lead-halide perovskites. Journal of Materials Chemistry A, 2019, 7, 23949-23957.	5.2	38
32	Size-Dependent Biexciton Spectrum in CsPbBr₃ Perovskite Nanocrystals. ACS Energy Letters, 2019, 4, 2639-2645.	8.8	53
33	Terahertz-Driven Stark Spectroscopy of CdSe and CdSeâ€“CdS Coreâ€“Shell Quantum Dots. Nano Letters, 2019, 19, 8125-8131.	4.5	15
34	Generalized Kashaâ€™s Model: T-Dependent Spectroscopy Reveals Short-Range Structures of 2D Excitonic Systems. CheM, 2019, 5, 3135-3150.	5.8	20
35	Setting an Upper Bound to the Biexciton Binding Energy in CsPbBr3 Perovskite Nanocrystals. Journal of Physical Chemistry Letters, 2019, 10, 5680-5686.	2.1	29
36	Discovery of blue singlet exciton fission molecules via a high-throughput virtual screening and experimental approach. Journal of Chemical Physics, 2019, 151, 121102.	1.2	24

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37	An interface stabilized perovskite solar cell with high stabilized efficiency and low voltage loss. Energy and Environmental Science, 2019, 12, 2192-2199.	15.6	542
38	Zinc Thiolate Enables Bright Cuâ€Deficient Cuâ€Inâ€S/ZnS Quantum Dots. Small, 2019, 15, e1901462.	5.2	24
39	A Heterogeneous Kinetics Model for Triplet Exciton Transfer in Solid-State Upconversion. Journal of Physical Chemistry Letters, 2019, 10, 3147-3152.	2.1	24
40	Light Management in Organic Photovoltaics Processed in Ambient Conditions Using ZnO Nanowire and Antireflection Layer with Nanocone Array. Small, 2019, 15, e1900508.	5.2	31
41	Increasing the penetration depth of temporal focusing multiphoton microscopy for neurobiological applications. Journal Physics D: Applied Physics, 2019, 52, 264001.	1.3	10
42	Triplet-Sensitization by Lead Halide Perovskite Thin Films for Near-Infrared-to-Visible Upconversion. ACS Energy Letters, 2019, 4, 888-895.	8.8	117
43	Micronâ€Scale Patterning of High Quantum Yield Quantum Dot LEDs. Advanced Materials Technologies, 2019, 4, 1800727.	3.0	33
44	Phosphonic Acid Modification of the Electron Selective Contact: Interfacial Effects in Perovskite Solar Cells. ACS Applied Energy Materials, 2019, 2, 2402-2408.	2.5	23
45	Homogenized halides and alkali cation segregation in alloyed organic-inorganic perovskites. Science, 2019, 363, 627-631.	6.0	258
46	Coherent single-photon emission from colloidal lead halide perovskite quantum dots. Science, 2019, 363, 1068-1072.	6.0	345
47	Biocompatible near-infrared quantum dots delivered to the skin by microneedle patches record vaccination. Science Translational Medicine, 2019, 11, .	5.8	95
48	Quantum-confined Stark effect of lead halide perovskite quantum dots in a mixed dimensional van der Waals heterostructure. , 2019, , .		0
49	A Ligand System for the Flexible Functionalization of Quantum Dots via Click Chemistry. Angewandte Chemie - International Edition, 2018, 57, 4652-4656.	7.2	28
50	A Ligand System for the Flexible Functionalization of Quantum Dots via Click Chemistry. Angewandte Chemie, 2018, 130, 4742-4746.	1.6	7
51	Using lead chalcogenide nanocrystals as spin mixers: a perspective on near-infrared-to-visible upconversion. Dalton Transactions, 2018, 47, 8509-8516.	1.6	65
52	Shortwave infrared fluorescence imaging with the clinically approved near-infrared dye indocyanine green. Proceedings of the National Academy of Sciences of the United States of America, 2018, 115, 4465-4470.	3.3	498
53	Dimension- and Surface-Tailored ZnO Nanowires Enhance Charge Collection in Quantum Dot Photovoltaic Devices. ACS Applied Energy Materials, 2018, 1, 1815-1822.	2.5	21
54	Brown adipose tissue thermogenic adaptation requires Nrf1-mediated proteasomal activity. Nature Medicine, 2018, 24, 292-303.	15.2	154

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55	Stable, small, specific, low-valency quantum dots for single-molecule imaging. Nanoscale, 2018, 10, 4406-4414.	2.8	20
56	Solvent-Engineering Method to Deposit Compact Bismuth-Based Thin Films: Mechanism and Application to Photovoltaics. Chemistry of Materials, 2018, 30, 336-343.	3.2	87
57	Photochemical Control of Exciton Superradiance in Light-Harvesting Nanotubes. ACS Nano, 2018, 12, 4556-4564.	7.3	34
58	Enhanced charge carrier mobility and lifetime suppress hysteresis and improve efficiency in planar perovskite solar cells. Energy and Environmental Science, 2018, 11, 78-86.	15.6	246
59	Mechanistic Insights and Controlled Synthesis of Radioluminescent ZnSe Quantum Dots Using a Microfluidic Reactor. Chemistry of Materials, 2018, 30, 8562-8570.	3.2	32
60	Precursor Concentration Affects Grain Size, Crystal Orientation, and Local Performance in Mixed-Ion Lead Perovskite Solar Cells. ACS Applied Energy Materials, 2018, 1, 6801-6808.	2.5	65
61	Solid-state infrared-to-visible upconversion for sub-bandgap sensitization of photovoltaics. , 2018, , .		5
62	Morphology of Passivating Organic Ligands around a Nanocrystal. Journal of Physical Chemistry C, 2018, 122, 26267-26274.	1.5	34
63	Initial findings of shortwave infrared otoscopy in a pediatric population. International Journal of Pediatric Otorhinolaryngology, 2018, 114, 15-19.	0.4	8
64	Absorption by water increases fluorescence image contrast of biological tissue in the shortwave infrared. Proceedings of the National Academy of Sciences of the United States of America, 2018, 115, 9080-9085.	3.3	89
65	A-Site Cation in Inorganic A₃Sb₂I₉ Perovskite Influences Structural Dimensionality, Exciton Binding Energy, and Solar Cell Performance. Chemistry of Materials, 2018, 30, 3734-3742.	3.2	134
66	Multistage Microfluidic Platform for the Continuous Synthesis of IIIâ€“V Core/Shell Quantum Dots. Angewandte Chemie, 2018, 130, 11081-11084.	1.6	18
67	Multistage Microfluidic Platform for the Continuous Synthesis of IIIâ€“V Core/Shell Quantum Dots. Angewandte Chemie - International Edition, 2018, 57, 10915-10918.	7.2	68
68	Synthesis cost dictates the commercial viability of lead sulfide and perovskite quantum dot photovoltaics. Energy and Environmental Science, 2018, 11, 2295-2305.	15.6	106
69	Multiexciton Lifetimes Reveal Triexciton Emission Pathway in CdSe Nanocrystals. Nano Letters, 2018, 18, 5153-5158.	4.5	27
70	Exceedingly small iron oxide nanoparticles as positive MRI contrast agents. Proceedings of the National Academy of Sciences of the United States of America, 2017, 114, 2325-2330.	3.3	374
71	Next-generation in vivo optical imaging with short-wave infrared quantum dots. Nature Biomedical Engineering, 2017, 1, .	11.6	490
72	Searching for â€œDefect-Tolerantâ€•Photovoltaic Materials: Combined Theoretical and Experimental Screening. Chemistry of Materials, 2017, 29, 4667-4674.	3.2	275

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73	Wide-field three-photon excitation in biological samples. Light: Science and Applications, 2017, 6, e16255-e16255.	7.7	67
74	Multistage extraction platform for highly efficient and fully continuous purification of nanoparticles. Nanoscale, 2017, 9, 7703-7707.	2.8	37
75	Colloidal atomic layer deposition growth of PbS/CdS core/shell quantum dots. Chemical Communications, 2017, 53, 869-872.	2.2	30
76	Inâ€Situ Microfluidic Study of Biphasic Nanocrystal Ligandâ€Exchange Reactions Using an Oscillatory Flow Reactor. Angewandte Chemie - International Edition, 2017, 56, 16333-16337.	7.2	34
77	Inâ€Situ Microfluidic Study of Biphasic Nanocrystal Ligandâ€Exchange Reactions Using an Oscillatory Flow Reactor. Angewandte Chemie, 2017, 129, 16551-16555.	1.6	5
78	Shortwave Infrared in Vivo Imaging with Gold Nanoclusters. Nano Letters, 2017, 17, 6330-6334.	4.5	149
79	Probing Linewidths and Biexciton Quantum Yields of Single Cesium Lead Halide Nanocrystals in Solution. Nano Letters, 2017, 17, 6838-6846.	4.5	62
80	Radiative Efficiency Limit with Band Tailing Exceeds 30% for Quantum Dot Solar Cells. ACS Energy Letters, 2017, 2, 2616-2624.	8.8	92
81	Minority Carrier Transport in Lead Sulfide Quantum Dot Photovoltaics. Nano Letters, 2017, 17, 6221-6227.	4.5	33
82	Improving the Carrier Lifetime of Tin Sulfide via Prediction and Mitigation of Harmful Point Defects. Journal of Physical Chemistry Letters, 2017, 8, 3661-3667.	2.1	22
83	Speed Limit for Triplet-Exciton Transfer in Solid-State PbS Nanocrystal-Sensitized Photon Upconversion. ACS Nano, 2017, 11, 7848-7857.	7.3	130
84	Flavylium Polymethine Fluorophores for Nearâ€and Shortwave Infrared Imaging. Angewandte Chemie, 2017, 129, 13306-13309.	1.6	47
85	Flavylium Polymethine Fluorophores for Nearâ€and Shortwave Infrared Imaging. Angewandte Chemie - International Edition, 2017, 56, 13126-13129.	7.2	301
86	Terahertz-Driven Luminescence and Colossal Stark Effect in CdSeâ€“CdS Colloidal Quantum Dots. Nano Letters, 2017, 17, 5375-5380.	4.5	53
87	Near-Infrared Quantum Dot Emission Enhanced by Stabilized Self-Assembled J-Aggregate Antennas. Nano Letters, 2017, 17, 7665-7674.	4.5	42
88	High Tolerance to Iron Contamination in Lead Halide Perovskite Solar Cells. ACS Nano, 2017, 11, 7101-7109.	7.3	90
89	Extracting the average single-molecule biexciton photoluminescence lifetime from a solution of chromophores. Optics Letters, 2016, 41, 4823.	1.7	8
90	Methylammonium Bismuth Iodide as a Leadâ€Free, Stable Hybrid Organicâ€“Inorganic Solar Absorber. Chemistry - A European Journal, 2016, 22, 2605-2610.	1.7	312

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91	Characterization of Indium Phosphide Quantum Dot Growth Intermediates Using MALDI-TOF Mass Spectrometry. Journal of the American Chemical Society, 2016, 138, 13469-13472.	6.6	101
92	Room-Temperature Micron-Scale Exciton Migration in a Stabilized Emissive Molecular Aggregate. Nano Letters, 2016, 16, 6808-6815.	4.5	94
93	Enhanced Photocurrent in PbS Quantum Dot Photovoltaics via ZnO Nanowires and Band Alignment Engineering. Advanced Energy Materials, 2016, 6, 1600848.	10.2	66
94	Using the shortwave infrared to image middle ear pathologies. Proceedings of the National Academy of Sciences of the United States of America, 2016, 113, 9989-9994.	3.3	44
95	PbS Nanocrystal Emission Is Governed by Multiple Emissive States. Nano Letters, 2016, 16, 6070-6077.	4.5	71
96	Continuous injection synthesis of indium arsenide quantum dots emissive in the short-wavelength infrared. Nature Communications, 2016, 7, 12749.	5.8	209
97	A Low Reabsorbing Luminescent Solar Concentrator Employing Ï€â€Conjugated Polymers. Advanced Materials, 2016, 28, 497-501.	11.1	69
98	Evolution of the Single-Nanocrystal Photoluminescence Linewidth with Size and Shell: Implications for Excitonâ€“Phonon Coupling and the Optimization of Spectral Linewidths. Nano Letters, 2016, 16, 289-296.	4.5	133
99	Slow-Injection Growth of Seeded CdSe/CdS Nanorods with Unity Fluorescence Quantum Yield and Complete Shell to Core Energy Transfer. ACS Nano, 2016, 10, 3295-3301.	7.3	92
100	Optical Trapping and Two-Photon Excitation of Colloidal Quantum Dots Using Bowtie Apertures. ACS Photonics, 2016, 3, 423-427.	3.2	107
101	Photovoltaic Performance of PbS Quantum Dots Treated with Metal Salts. ACS Nano, 2016, 10, 3382-3388.	7.3	75
102	A mouse-human phase 1 co-clinical trial of a protease-activated fluorescent probe for imaging cancer. Science Translational Medicine, 2016, 8, 320ra4.	5.8	224
103	Solid-state infrared-to-visible upconversion sensitized by colloidal nanocrystals. Nature Photonics, 2016, 10, 31-34.	15.6	418
104	A path to practical Solar Pumped Lasers via Radiative Energy Transfer. Scientific Reports, 2015, 5, 14758.	1.6	35
105	Identifying and Eliminating Emissive Subâ€bandgap States in Thin Films of PbS Nanocrystals. Advanced Materials, 2015, 27, 4481-4486.	11.1	77
106	The Unexpected Influence of Precursor Conversion Rate in the Synthesis of IIIâ€“V Quantum Dots. Angewandte Chemie - International Edition, 2015, 54, 14299-14303.	7.2	71
107	20.2: Ultraâ€Bright, Highly Efficient, Low Rollâ€Off Inverted Quantumâ€Dot Light Emitting Devices (QLEDs). Digest of Technical Papers SID International Symposium, 2015, 46, 270-273.	0.1	66
108	Measuring Ligand-Dependent Transport in Nanopatterned PbS Colloidal Quantum Dot Arrays Using Charge Sensing. Nano Letters, 2015, 15, 4401-4405.	4.5	12

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109	Highâ€Performance Shortwaveâ€Infrared Lightâ€Emitting Devices Using Coreâ€“Shell (PbSâ€“CdS) Colloidal Quantum Dots. Advanced Materials, 2015, 27, 1437-1442.	11.1	167
110	Quantum dot/antibody conjugates for in vivo cytometric imaging in mice. Proceedings of the National Academy of Sciences of the United States of America, 2015, 112, 1350-1355.	3.3	109
111	Effect of Trace Water on the Growth of Indium Phosphide Quantum Dots. Chemistry of Materials, 2015, 27, 5058-5063.	3.2	57
112	Micelle-Encapsulated Quantum Dot-Porphyrin Assemblies as in Vivo Two-Photon Oxygen Sensors. Journal of the American Chemical Society, 2015, 137, 9832-9842.	6.6	104
113	Thermal Recovery of Colloidal Quantum Dot Ensembles Following Photoinduced Dimming. Journal of Physical Chemistry Letters, 2015, 6, 2933-2937.	2.1	4
114	A colloidal quantum dot spectrometer. Nature, 2015, 523, 67-70.	13.7	433
115	Locating and classifying fluorescent tags behind turbid layers using time-resolved inversion. Nature Communications, 2015, 6, 6796.	5.8	33
116	Open-Circuit Voltage Deficit, Radiative Sub-Bandgap States, and Prospects in Quantum Dot Solar Cells. Nano Letters, 2015, 15, 3286-3294.	4.5	223
117	Objective, comparative assessment of the penetration depth of temporal-focusing microscopy for imaging various organs. Journal of Biomedical Optics, 2015, 20, 061107.	1.4	9
118	Oscillatory Microprocessor for Growth and in Situ Characterization of Semiconductor Nanocrystals. Chemistry of Materials, 2015, 27, 6131-6138.	3.2	74
119	Sample-Averaged Biexciton Quantum Yield Measured by Solution-Phase Photon Correlation. Nano Letters, 2014, 14, 6792-6798.	4.5	26
120	Improved performance and stability in quantumÂdot solar cells through band alignmentÂengineering. Nature Materials, 2014, 13, 796-801.	13.3	1,511
121	A transferable model for singlet-fission kinetics. Nature Chemistry, 2014, 6, 492-497.	6.6	402
122	Measurement of Emission Lifetime Dynamics and Biexciton Emission Quantum Yield of Individual InAs Colloidal Nanocrystals. Nano Letters, 2014, 14, 6787-6791.	4.5	32
123	Coherent Exciton Dynamics in Supramolecular Light-Harvesting Nanotubes Revealed by Ultrafast Quantum Process Tomography. ACS Nano, 2014, 8, 5527-5534.	7.3	46
124	Magneto-fluorescent core-shell supernanoparticles. Nature Communications, 2014, 5, 5093.	5.8	223
125	Energy harvesting of non-emissive triplet excitons in tetracene by emissive PbS nanocrystals. Nature Materials, 2014, 13, 1039-1043.	13.3	235
126	Enhanced photovoltaic performance with co-sensitization of quantum dots and an organic dye in dye-sensitized solar cells. Journal of Materials Chemistry A, 2014, 2, 18375-18382.	5.2	26

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127	Robust excitons inhabit soft supramolecular nanotubes. Proceedings of the National Academy of Sciences of the United States of America, 2014, 111, E3367-75.	3.3	100
128	Core/Shell Quantum Dot Based Luminescent Solar Concentrators with Reduced Reabsorption and Enhanced Efficiency. Nano Letters, 2014, 14, 4097-4101.	4.5	292
129	Deconstructing the photon stream from single nanocrystals: from binning to correlation. Chemical Society Reviews, 2014, 43, 1287-1310.	18.7	73
130	Energy Level Modification in Lead Sulfide Quantum Dot Thin Films through Ligand Exchange. ACS Nano, 2014, 8, 5863-5872.	7.3	843
131	A phase I study of the safety and activation of a cathepsin-activatable fluorescent cancer-specific probe LUM015.. Journal of Clinical Oncology, 2014, 32, TPS11135-TPS11135.	0.8	3
132	ZnO Nanowire Arrays for Enhanced Photocurrent in PbS Quantum Dot Solar Cells (Adv. Mater.) Tj ETQq0 0 0 rgBT /Overlock 10 Tf 50 54	11.1	2
133	The Dominant Role of Exciton Quenching in PbS Quantum-Dot-Based Photovoltaic Devices. Nano Letters, 2013, 13, 5907-5912.	4.5	41
134	Graphene Cathode-Based ZnO Nanowire Hybrid Solar Cells. Nano Letters, 2013, 13, 233-239.	4.5	193
135	Emergence of colloidal quantum-dot light-emitting technologies. Nature Photonics, 2013, 7, 13-23.	15.6	2,155
136	Compact high-quality CdSeâ€“CdS coreâ€“shell nanocrystals with narrow emission linewidthsÂandÂsuppressed blinking. Nature Materials, 2013, 12, 445-451.	13.3	1,168
137	Spatial Charge Configuration Regulates Nanoparticle Transport and Binding Behavior Inâ€…Vivo. Angewandte Chemie - International Edition, 2013, 52, 1414-1419.	7.2	81
138	Low-Temperature Solution-Processed Solar Cells Based on PbS Colloidal Quantum Dot/CdS Heterojunctions. Nano Letters, 2013, 13, 994-999.	4.5	129
139	ZnO Nanowire Arrays for Enhanced Photocurrent in PbS Quantum Dot Solar Cells. Advanced Materials, 2013, 25, 2790-2796.	11.1	251
140	High-efficiency quantum-dot light-emitting devices with enhanced charge injection. Nature Photonics, 2013, 7, 407-412.	15.6	1,025
141	Direct probe of spectral inhomogeneity reveals synthetic tunability of single-nanocrystal spectral linewidths. Nature Chemistry, 2013, 5, 602-606.	6.6	130
142	Direct Observation of Rapid Discrete Spectral Dynamics in Single Colloidal CdSe-CdS Core-Shell Quantum Dots. Physical Review Letters, 2013, 111, 177401.	2.9	46
143	Multispectral imaging via luminescent down-shifting with colloidal quantum dots. Optical Materials Express, 2013, 3, 1167.	1.6	10
144	Improved Precursor Chemistry for the Synthesis of IIIâ€“V Quantum Dots. Journal of the American Chemical Society, 2012, 134, 20211-20213.	6.6	124

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145	Energy transfer of CdSe/ZnS nanocrystals encapsulated with rhodamine-dye functionalized poly(acrylic acid). Journal of Photochemistry and Photobiology A: Chemistry, 2012, 248, 24-29.	2.0	15
146	Bias-Stress Effect in 1,2-Ethanedithiol-Treated PbS Quantum Dot Field-Effect Transistors. ACS Nano, 2012, 6, 3121-3127.	7.3	102
147	COUPLING BETWEEN J-AGGREGATES AND INORGANIC EXCITONS. , 2012, , 181-193.		1
148	Biexciton Quantum Yield Heterogeneities in Single CdSe (CdS) Core (Shell) Nanocrystals and Its Correlation to Exciton Blinking. Nano Letters, 2012, 12, 4477-4483.	4.5	81
149	Nonendocytic Delivery of Functional Engineered Nanoparticles into the Cytoplasm of Live Cells Using a Novel, High-Throughput Microfluidic Device. Nano Letters, 2012, 12, 6322-6327.	4.5	80
150	Alternating layer addition approach to CdSe/CdS core/shell quantum dots with near-unity quantum yield and high on-time fractions. Chemical Science, 2012, 3, 2028.	3.7	207
151	Single Photon Counting from Individual Nanocrystals in the Infrared. Nano Letters, 2012, 12, 2953-2958.	4.5	48
152	A nanocrystal-based ratiometric pH sensor for natural pH ranges. Chemical Science, 2012, 3, 2980.	3.7	60
153	Biexciton Quantum Yield of Single Semiconductor Nanocrystals from Photon Statistics. Nano Letters, 2011, 11, 1136-1140.	4.5	216
154	Estimating Motion and size of moving non-line-of-sight objects in cluttered environments. , 2011, , .		32
155	Electroluminescence from Nanoscale Materials via Field-Driven Ionization. Nano Letters, 2011, 11, 2927-2932.	4.5	51
156	Improved Current Extraction from ZnO/PbS Quantum Dot Heterojunction Photovoltaics Using a MoO₃ Interfacial Layer. Nano Letters, 2011, 11, 2955-2961.	4.5	265
157	Morphology of contact printed colloidal quantum dots in organic semiconductor films: Implications for QD-LEDs. Physica Status Solidi C: Current Topics in Solid State Physics, 2011, 8, 120-123.	0.8	1
158	Investigation of Indium Phosphide Nanocrystal Synthesis Using a Highâ€Temperature and Highâ€Pressure Continuous Flow Microreactor. Angewandte Chemie - International Edition, 2011, 50, 627-630.	7.2	128
159	Colloidal PbS Quantum Dot Solar Cells with High Fill Factor. ACS Nano, 2010, 4, 3743-3752.	7.3	416
160	Mechanistic Insights into the Formation of InP Quantum Dots. Angewandte Chemie - International Edition, 2010, 49, 760-762.	7.2	155
161	A Nanoparticle Size Series for Inâ€...Vivo Fluorescence Imaging. Angewandte Chemie - International Edition, 2010, 49, 8649-8652.	7.2	289
162	Extracting Spectral Dynamics from Single Chromophores in Solution. Physical Review Letters, 2010, 105, 053005.	2.9	28

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163	Development of a Bioorthogonal and Highly Efficient Conjugation Method for Quantum Dots Using Tetrazineâ^'Norbornene Cycloaddition. Journal of the American Chemical Society, 2010, 132, 7838-7839.	6.6	202
164	Quantum Dot/J-Aggregate Blended Films for Light Harvesting and Energy Transfer. Nano Letters, 2010, 10, 3995-3999.	4.5	69
165	Tunable Infrared Emission From Printed Colloidal Quantum Dot/Polymer Composite Films on Flexible Substrates. Journal of Display Technology, 2010, 6, 90-93.	1.3	22
166	Air-Stable Operation of Transparent, Colloidal Quantum Dot Based LEDs with a Unipolar Device Architecture. Nano Letters, 2010, 10, 24-29.	4.5	149
167	InAs(ZnCdS) Quantum Dots Optimized for Biological Imaging in the Near-Infrared. Journal of the American Chemical Society, 2010, 132, 470-471.	6.6	177
168	Compact Biocompatible Quantum Dots via RAFT-Mediated Synthesis of Imidazole-Based Random Copolymer Ligand. Journal of the American Chemical Society, 2010, 132, 472-483.	6.6	271
169	Charge transport in mixed CdSe and CdTe colloidal nanocrystal films. Physical Review B, 2010, 82, .	1.1	47
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