Xiaogang Peng

List of Publications by Year
in descending order

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200 papers	56,026 citations	3325 91 h-index	2439 197 g-index
212 all docs	212 docs citations	212 times ranked	32295 citing authors

#	ARTICLE	IF	CITATIONS
1	Efficient quasi-stationary charge transfer from quantum dots to acceptors physically-adsorbed in the ligand monolayer. Nano Research, 2022, 15, 617-626.	5.8	13
2	Water molecules bonded to the carboxylate groups at the inorganicâ€“organic interface of an inorganic nanocrystal coated with alkanoate ligands. National Science Review, 2022, 9, nwab138.	4.6	9
3	Universal precursors dispersed in Vaseline-octadecene gel for nanocrystal synthesis. Nano Research, 2022, 15, 4724-4731.	5.8	7
4	Entropy of Branching Out: Linear versus Branched Alkylthiols Ligands on CdSe Nanocrystals. ACS Nano, 2022, 16, 4308-4321.	7.3	15
5	Anomalous Emission Shift of CdSe/CdS/ZnS Quantum Dots at Cryogenic Temperatures. Nano Letters, 2022, 22, 3011-3017.	4.5	11
6	Epitaxial Integration of Multiple CdSe Quantum Dots in a Colloidal CdS Nanoplatelet. Journal of the American Chemical Society, 2022, 144, 8444-8448.	6.6	8
7	Enhancing Dielectric Screening for Auger Suppression in CdSe/CdS Quantum Dots by Epitaxial Growth of ZnS Shell. Nano Letters, 2021, 21, 3871-3878.	4.5	29
8	Engineering of Exciton Spatial Distribution in CdS Nanoplatelets. Nano Letters, 2021, 21, 5201-5208.	4.5	18
9	Phonon-assisted up-conversion photoluminescence of quantum dots. Nature Communications, 2021, 12, 4283.	5.8	37
10	Current Status and Challenges of Solar Cells Based on Semiconductor Nanocrystals. Energy & Fuels, 2021, 35, 18928-18941.	2.5	12
11	Visible Light Induced Reduction and Pinacol Coupling of Aldehydes and Ketones Catalyzed by Core/Shell Quantum Dots. Journal of Organic Chemistry, 2021, 86, 2474-2488.	1.7	17
12	Synthesis of Colloidal Quantum Dots with an Ultranarrow Photoluminescence Peak. Chemistry of Materials, 2021, 33, 1799-1810.	3.2	31
13	Water Effects on Colloidal Semiconductor Nanocrystals: Correlation of Photophysics and Photochemistry. Journal of the American Chemical Society, 2021, 143, 18721-18732.	6.6	14
14	Tuning the Reactivity of Indium Alkanoates by Tertiary Organophosphines for the Synthesis of Indium-Based Quantum Dots. Chemistry of Materials, 2021, 33, 9348-9356.	3.2	10
15	Highâ€Performance Quantumâ€Dot Lightâ€Emitting Diodes Using NiO<i>_x</i> Holeâ€Injection Layers with a High and Stable Work Function. Advanced Functional Materials, 2020, 30, 1907265.	7.8	48
16	Delocalized Surface Electronic States on Polar Facets of Semiconductor Nanocrystals. ACS Nano, 2020, 14, 16614-16623.	7.3	10
17	Monodisperse CdSe Quantum Dots Encased in Six (100) Facets via Ligand-Controlled Nucleation and Growth. Journal of the American Chemical Society, 2020, 142, 19926-19935.	6.6	27
18	Quantum Dots for Display Applications. Angewandte Chemie, 2020, 132, 22496-22507.	1.6	33

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19	Quantum Dots for Display Applications. Angewandte Chemie - International Edition, 2020, 59, 22312-22323.	7.2	168
20	Deciphering exciton-generation processes in quantum-dot electroluminescence. Nature Communications, 2020, 11, 2309.	5.8	96
21	Quantum Dots with Highly Efficient, Stable, and Multicolor Electrochemiluminescence. ACS Central Science, 2020, 6, 1129-1137.	5.3	107
22	Surface and intrinsic contributions to extinction properties of ZnSe quantum dots. Nano Research, 2020, 13, 824-831.	5.8	34
23	Electrochemically-stable ligands bridge the photoluminescence-electroluminescence gap of quantum dots. Nature Communications, 2020, 11, 937.	5.8	184
24	Oxygen Stabilizes Photoluminescence of CdSe/CdS Core/Shell Quantum Dots via Deionization. Journal of the American Chemical Society, 2020, 142, 4254-4264.	6.6	50
25	Introduction to special issue: Colloidal quantum dots. Journal of Chemical Physics, 2020, 153, 240401.	1.2	5
26	Formation of Size-Tunable and Nearly Monodisperse InP Nanocrystals: Chemical Reactions and Controlled Synthesis. Chemistry of Materials, 2019, 31, 5331-5341.	3.2	62
27	Facetâ€Dependent Onâ€Surface Reactions in the Growth of CdSe Nanoplatelets. Angewandte Chemie, 2019, 131, 17928-17934.	1.6	1
28	Facetâ€Dependent Onâ€Surface Reactions in the Growth of CdSe Nanoplatelets. Angewandte Chemie - International Edition, 2019, 58, 17764-17770.	7.2	28
29	CdSe@CdS Dot@Platelet Nanocrystals: Controlled Epitaxy, Monoexponential Decay of Two-Dimensional Exciton, and Nonblinking Photoluminescence of Single Nanocrystal. Journal of the American Chemical Society, 2019, 141, 17617-17628.	6.6	25
30	Identification of Facet-Dependent Coordination Structures of Carboxylate Ligands on CdSe Nanocrystals. Journal of the American Chemical Society, 2019, 141, 15675-15683.	6.6	85
31	Partitioning surface ligands on nanocrystals for maximal solubility. Nature Communications, 2019, 10, 2454.	5.8	74
32	Stoichiometry-Controlled InP-Based Quantum Dots: Synthesis, Photoluminescence, and Electroluminescence. Journal of the American Chemical Society, 2019, 141, 6448-6452.	6.6	282
33	Engineering Auger recombination in colloidal quantum dots via dielectric screening. Nature Communications, 2019, 10, 1750.	5.8	93
34	Inverted quantum dot light-emitting diodes with conductive interlayers of zirconium acetylacetonate. Journal of Materials Chemistry C, 2019, 7, 3154-3159.	2.7	9
35	Effects of interface-potential smoothness and wavefunction delocalization on Auger recombination in colloidal CdSe-based core/shell quantum dots. Journal of Chemical Physics, 2019, 151, 234703.	1.2	21
36	Temperature- and Mn²⁺ Concentration-Dependent Emission Properties of Mn²⁺-Doped ZnSe Nanocrystals. Journal of the American Chemical Society, 2019, 141, 2288-2298.	6.6	102

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37	Quantitative Identification of Basic Growth Channels for Formation of Monodisperse Nanocrystals. Journal of the American Chemical Society, 2018, 140, 5474-5484.	6.6	39
38	Extinction coefficient per CdE (E = Se or S) unit for zinc-blende CdE nanocrystals. Nano Research, 2018, 11, 3991-4004.	5.8	38
39	Ag Nanocrystals with Nearly Ideal Optical Quality: Synthesis, Growth Mechanism, and Characterizations. Journal of the American Chemical Society, 2018, 140, 17734-17742.	6.6	40
40	Effects of Local Dielectric Environment on Single-Molecule Spectroscopy of a CdSe/CdS Core/Shell Quantum Dot. ACS Photonics, 2018, 5, 4139-4146.	3.2	15
41	Visible-Light Photocatalytic Synthesis of Amines from Imines via Transfer Hydrogenation Using Quantum Dots as Catalysts. Journal of Organic Chemistry, 2018, 83, 11886-11895.	1.7	47
42	Highâ€Performance, Solutionâ€Processed, and Insulatingâ€Layerâ€Free Lightâ€Emitting Diodes Based on Colloidal Quantum Dots. Advanced Materials, 2018, 30, e1801387.	11.1	151
43	On-Surface Reactions in the Growth of High-Quality CdSe Nanocrystals in Nonpolar Solutions. Journal of the American Chemical Society, 2018, 140, 9174-9183.	6.6	33
44	Synthetic Control of Exciton Behavior in Colloidal Quantum Dots. Journal of the American Chemical Society, 2017, 139, 3302-3311.	6.6	198
45	Photoluminescence Intermittency and Photoâ€Bleaching of Single Colloidal Quantum Dot. Advanced Materials, 2017, 29, 1606923.	11.1	66
46	Quantumâ€Dot Lightâ€Emitting Diodes for Largeâ€Area Displays: Towards the Dawn of Commercialization. Advanced Materials, 2017, 29, 1607022.	11.1	620
47	Anisotropic Fe₃O₄/Mn₃O₄ Hybrid Nanocrystals with Unique Magnetic Properties. Nano Letters, 2017, 17, 3570-3575.	4.5	22
48	Surface activation of colloidal indium phosphide nanocrystals. Nano Research, 2017, 10, 941-958.	5.8	39
49	Electrically-driven single-photon sources based on colloidal quantum dots with near-optimal antibunching at room temperature. Nature Communications, 2017, 8, 1132.	5.8	105
50	Ideal CdSe/CdS Core/Shell Nanocrystals Enabled by Entropic Ligands and Their Core Size-, Shell Thickness-, and Ligand-Dependent Photoluminescence Properties. Journal of the American Chemical Society, 2017, 139, 16556-16567.	6.6	186
51	An important step towards commercialization of quantum-dot light-emitting diode displays. Science China Chemistry, 2017, 60, 1324-1325.	4.2	2
52	Deciphering Charging Status, Absolute Quantum Efficiency, and Absorption Cross Section of Multicarrier States in Single Colloidal Quantum Dots. Nano Letters, 2017, 17, 7487-7493.	4.5	25
53	Symmetry-Breaking for Formation of Rectangular CdSe Two-Dimensional Nanocrystals in Zinc-Blende Structure. Journal of the American Chemical Society, 2017, 139, 10009-10019.	6.6	66
54	One-pot/three-step synthesis of zinc-blende CdSe/CdS core/shell nanocrystals with thick shells. Nano Research, 2017, 10, 1149-1162.	5.8	56

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55	Charging and Discharging Channels in Photoluminescence Intermittency of Single Colloidal CdSe/CdS Core/Shell Quantum Dot. Journal of Physical Chemistry Letters, 2016, 7, 5176-5182.	2.1	31
56	A Two-Step Synthetic Strategy toward Monodisperse Colloidal CdSe and CdSe/CdS Core/Shell Nanocrystals. Journal of the American Chemical Society, 2016, 138, 6475-6483.	6.6	92
57	Design and Synthesis of Antiblinking and Antibleaching Quantum Dots in Multiple Colors via Wave Function Confinement. Journal of the American Chemical Society, 2016, 138, 15727-15735.	6.6	60
58	To Battle Surface Traps on CdSe/CdS Core/Shell Nanocrystals: Shell Isolation versus Surface Treatment. Journal of the American Chemical Society, 2016, 138, 8134-8142.	6.6	192
59	48-4:<i>Invited Paper</i>: Quantum Dots for Display: From Photoluminescence to Electroluminescence. Digest of Technical Papers SID International Symposium, 2016, 47, 657-659.	0.1	13
60	Shell-thickness dependent optical properties of CdSe/CdS core/shell nanocrystals coated with thiol ligands. Nano Research, 2016, 9, 260-271.	5.8	41
61	Entropic Ligands for Nanocrystals: From Unexpected Solution Properties to Outstanding Processability. Nano Letters, 2016, 16, 2133-2138.	4.5	174
62	Intramolecular Entropy and Size-Dependent Solution Properties of Nanocrystalâ€"Ligands Complexes. Nano Letters, 2016, 16, 2127-2132.	4.5	85
63	Doped Semiconductor-Nanocrystal Emitters with Optimal Photoluminescence Decay Dynamics in Microsecond to Millisecond Range: Synthesis and Applications. ACS Central Science, 2016, 2, 32-39.	5.3	75
64	Structure Identification of Two-Dimensional Colloidal Semiconductor Nanocrystals with Atomic Flat Basal Planes. Nano Letters, 2015, 15, 4477-4482.	4.5	68
65	Photogenerated Excitons in Plain Core CdSe Nanocrystals with Unity Radiative Decay in Single Channel: The Effects of Surface and Ligands. Journal of the American Chemical Society, 2015, 137, 4230-4235.	6.6	194
66	Pt/Fe₃O₄ Core/Shell Triangular Nanoprisms by Heteroepitaxy: Facet Selectivity at the Ptâ€"Fe₃O₄ Interface and the Fe₃O₄ Outer Surface. ACS Nano, 2015, 9, 10950-10960.	7.3	31
67	An efficient and surface-benign purification scheme for colloidal nanocrystals based on quantitative assessment. Nano Research, 2015, 8, 3353-3364.	5.8	40
68	Crystal Structure Control of CdSe Nanocrystals in Growth and Nucleation: Dominating Effects of Surface versus Interior Structure. Journal of the American Chemical Society, 2014, 136, 6724-6732.	6.6	110
69	Single-Dot Spectroscopy of Zinc-Blende CdSe/CdS Core/Shell Nanocrystals: Nonblinking and Correlation with Ensemble Measurements. Journal of the American Chemical Society, 2014, 136, 179-187.	6.6	141
70	Solution-processed, high-performance light-emitting diodes based on quantum dots. Nature, 2014, 515, 96-99.	13.7	2,119
71	Robust structure and morphology parameters for CdS nanoparticles by combining small-angle X-ray scattering and atomic pair distribution function data in a complex modeling framework. Journal of Applied Crystallography, 2014, 47, 561-565.	1.9	21
72	Unusual Loading-Dependent Sintering-Resistant Properties of Gold Nanoparticles Supported within Extra-large Mesopores. Chemistry of Materials, 2013, 25, 1556-1563.	3.2	54

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73	Highly reactive, flexible yet green Se precursor for metal selenide nanocrystals: Se-octadecene suspension (Se-SUS). Nano Research, 2013, 6, 652-670.	5.8	121
74	Crystal Structure Control of Zinc-Blende CdSe/CdS Core/Shell Nanocrystals: Synthesis and Structure-Dependent Optical Properties. Journal of the American Chemical Society, 2012, 134, 19685-19693.	6.6	264
75	Uniform thickness and colloidal-stable CdS quantum disks with tunable thickness: Synthesis and properties. Nano Research, 2012, 5, 337-351.	5.8	107
76	Size/Shape-Controlled Synthesis of Colloidal CdSe Quantum Disks: Ligand and Temperature Effects. Journal of the American Chemical Society, 2011, 133, 6578-6586.	6.6	250
77	Correlation of CdS Nanocrystal Formation with Elemental Sulfur Activation and Its Implication in Synthetic Development. Journal of the American Chemical Society, 2011, 133, 17248-17256.	6.6	104
78	Bright and Stable Purple/Blue Emitting CdS/ZnS Core/Shell Nanocrystals Grown by Thermal Cycling Using a Single-Source Precursor. Chemistry of Materials, 2010, 22, 1437-1444.	3.2	190
79	Ultrasmall Nearâ€Infrared Nonâ€cadmium Quantum Dots for in vivo Tumor Imaging. Small, 2010, 6, 256-261.	5.2	174
80	Synthesis of Bifunctional Hydroxamic Acids as Novel Ligands for the Hydrophilic Stabilization of Iron Oxide Nanoparticles. Synthesis, 2010, 2010, 1150-1158.	1.2	2
81	Synthesis of Monodisperse, Highly Emissive, and Size-Tunable Cd3P2 Nanocrystals. Chemistry of Materials, 2010, 22, 3820-3822.	3.2	47
82	Synthesis of Highly Emissive Mn-Doped ZnSe Nanocrystals without Pyrophoric Reagents. Chemistry of Materials, 2010, 22, 2107-2113.	3.2	144
83	Band Gap and Composition Engineering on a Nanocrystal (BCEN) in Solution. Accounts of Chemical Research, 2010, 43, 1387-1395.	7.6	109
84	In Vivo Tumor-Targeted Fluorescence Imaging Using Near-Infrared Non-Cadmium Quantum Dots. Bioconjugate Chemistry, 2010, 21, 604-609.	1.8	137
85	Magnetic and Structural Investigation of ZnSe Semiconductor Nanoparticles Doped With Isolated and Coreâ€Concentrated Mn²⁺ Ions. Advanced Functional Materials, 2009, 19, 2501-2510.	7.8	22
86	An essay on synthetic chemistry of colloidal nanocrystals. Nano Research, 2009, 2, 425-447.	5.8	259
87	Formation of Monodisperse FePt Alloy Nanocrystals Using Air-Stable Precursors: Fatty Acids as Alloying Mediator and Reductant for Fe³⁺ Precursors. Journal of the American Chemical Society, 2009, 131, 5350-5358.	6.6	33
88	Synthesis of Cu-Doped InP Nanocrystals (d-dots) with ZnSe Diffusion Barrier as Efficient and Color-Tunable NIR Emitters. Journal of the American Chemical Society, 2009, 131, 10645-10651.	6.6	311
89	Formation of High-Quality Iâˆ’IIIâˆ’VI Semiconductor Nanocrystals by Tuning Relative Reactivity of Cationic Precursors. Journal of the American Chemical Society, 2009, 131, 5691-5697.	6.6	715
90	Temperature Dependence of â€œElementary Processesâ€•in Doping Semiconductor Nanocrystals. Journal of the American Chemical Society, 2009, 131, 9333-9339.	6.6	183

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91	Nucleation Kinetics vs Chemical Kinetics in the Initial Formation of Semiconductor Nanocrystals. Journal of the American Chemical Society, 2009, 131, 15457-15466.	6.6	179
92	Formation and Stability of Gold Nanoflowers by the Seeding Approach: The Effect of Intraparticle Ripening. Journal of Physical Chemistry C, 2009, 113, 16645-16651.	1.5	122
93	Shape control of doped semiconductor nanocrystals (d-dots). Nano Research, 2008, 1, 138-144.	5.8	53
94	InAs/InP/ZnSe core/shell/shell quantum dots as near-infrared emitters: Bright, narrow-band, non-cadmium containing, and biocompatible. Nano Research, 2008, 1, 457-464.	5.8	103
95	Synthetic Scheme for Highâ€Quality InAs Nanocrystals Based on Selfâ€Focusing and Oneâ€Pot Synthesis of InAsâ€Based Coreâ€“Shell Nanocrystals. Angewandte Chemie - International Edition, 2008, 47, 7677-7680.	7.2	130
96	Enhanced Fluorescence Intermittency in Mn-Doped Single ZnSe Quantum Dots. Journal of Physical Chemistry C, 2008, 112, 20200-20205.	1.5	24
97	Bright and Water-Soluble Near IR-Emitting CdSe/CdTe/ZnSe Type-II/Type-I Nanocrystals, Tuning the Efficiency and Stability by Growth. Chemistry of Materials, 2008, 20, 4847-4853.	3.2	110
98	Ligand Bonding and Dynamics on Colloidal Nanocrystals at Room Temperature: The Case of Alkylamines on CdSe Nanocrystals. Journal of the American Chemical Society, 2008, 130, 5726-5735.	6.6	251
99	Fluorescence lifetime of Mn-doped ZnSe quantum dots with size dependence. Applied Physics Letters, 2008, 92, .	1.5	71
100	Size dependence of nonlinear optical absorption and refraction of Mn-doped ZnSe nanocrystals. Applied Physics Letters, 2007, 91, 201103.	1.5	50
101	Size Control of Gold Nanocrystals in Citrate Reduction:â€‰ The Third Role of Citrate. Journal of the American Chemical Society, 2007, 129, 13939-13948.	6.6	1,149
102	Colloidal InP Nanocrystals as Efficient Emitters Covering Blue to Near-Infrared. Journal of the American Chemical Society, 2007, 129, 15432-15433.	6.6	454
103	Control of the Morphology of Complex Semiconductor Nanocrystals with a Type II Heterojunction, Dots vs Peanuts, by Thermal Cycling. Chemistry of Materials, 2007, 19, 3815-3821.	3.2	105
104	Formation of Monodisperse and Shape-Controlled MnO Nanocrystals in Non-Injection Synthesis:â€‰ Self-Focusing via Ripening. Journal of the American Chemical Society, 2007, 129, 10937-10947.	6.6	146
105	Surface Ligand Dynamics in Growth of Nanocrystals. Journal of the American Chemical Society, 2007, 129, 9500-9509.	6.6	274
106	Detection of Pathogens Using Luminescent CdSe/ZnS Dendron Nanocrystals and a Porous Membrane Immunofilter. Analytical Chemistry, 2007, 79, 8796-8802.	3.2	73
107	Efficient and Color-Tunable Mn-Doped ZnSe Nanocrystal Emitters:Â Control of Optical Performance via Greener Synthetic Chemistry. Journal of the American Chemical Society, 2007, 129, 3339-3347.	6.6	570
108	Efficient, Stable, Small, and Water-Soluble Doped ZnSe Nanocrystal Emitters as Non-Cadmium Biomedical Labels. Nano Letters, 2007, 7, 312-317.	4.5	435

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109	Interparticle Influence on Size/Size Distribution Evolution of Nanocrystals. Journal of the American Chemical Society, 2007, 129, 2736-2737.	6.6	81
110	Formation of High-Quality CdS and Other IIâ€“VI Semiconductor Nanocrystals in Noncoordinating Solvents: Tunable Reactivity of Monomers. Angewandte Chemie - International Edition, 2007, 46, 2559-2559.	7.2	10
111	Formation of High-Quality CdS and Other II-VI Semiconductor Nanocrystals in Noncoordinating Solvents: Tunable Reactivity of Monomers. Angewandte Chemie, 2007, 119, 2611-2611.	1.6	10
112	Highly Luminescent, Stable, and Water-Soluble CdSe/CdS Coreâ˜'Shell Dendron Nanocrystals with Carboxylate Anchoring Groups. Langmuir, 2006, 22, 6341-6345.	1.6	85
113	Formation of Nearly Monodisperse In2O3Nanodots and Oriented-Attached Nanoflowers:Â Hydrolysis and Alcoholysis vs Pyrolysis. Journal of the American Chemical Society, 2006, 128, 10310-10319.	6.6	294
114	Colloidal CdSe Quantum Wires by Oriented Attachment. Nano Letters, 2006, 6, 720-724.	4.5	277
115	University spin-offs: Opportunity or challenge?. Nature Materials, 2006, 5, 923-925.	13.3	10
116	Initialization and read-out of spins in coupled coreâ€“shell quantum dots. Nature Physics, 2006, 2, 831-834.	6.5	35
117	Crystalline Nanoflowers with Different Chemical Compositions and Physical Properties Grown by Limited Ligand Protection. Angewandte Chemie - International Edition, 2006, 45, 5361-5364.	7.2	163
118	Cover Picture: Crystalline Nanoflowers with Different Chemical Compositions and Physical Properties Grown by Limited Ligand Protection (Angew. Chem. Int. Ed. 32/2006). Angewandte Chemie - International Edition, 2006, 45, 5227-5227.	7.2	2
119	Modelling the formation of high aspect CdSe quantum wires: axial-growth versus oriented-attachment mechanisms. Nanotechnology, 2006, 17, 5707-5714.	1.3	37
120	Super-Stable, High-Quality Fe3O4 Dendron-Nanocrystals Dispersible in Both Organic and Aqueous Solutions. Advanced Materials, 2005, 17, 1429-1432.	11.1	140
121	Spin dynamics and level structure of quantum-dot quantum wells. Physical Review B, 2005, 71, .	1.1	25
122	Exciton radiative recombination in spherical CdSâˆ•CdSeâˆ•CdS quantum-well nanostructures. Applied Physics Letters, 2005, 87, 043107.	1.5	19
123	Size-Dependent Dissociation pH of Thiolate Ligands from Cadmium Chalcogenide Nanocrystals. Journal of the American Chemical Society, 2005, 127, 2496-2504.	6.6	360
124	Photoluminescence from colloidal CdS-CdSe-CdS quantum wells. Journal of the Optical Society of America B: Optical Physics, 2005, 22, 1112.	0.9	14
125	An Alternative of CdSe Nanocrystal Emitters:â€‰ Pure and Tunable Impurity Emissions in ZnSe Nanocrystals. Journal of the American Chemical Society, 2005, 127, 17586-17587.	6.6	667
126	Side Reactions in Controlling the Quality, Yield, and Stability of High Quality Colloidal Nanocrystals. Journal of the American Chemical Society, 2005, 127, 13331-13337.	6.6	169

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127	Coupled and Decoupled Dual Quantum Systems in One Semiconductor Nanocrystal. Journal of the American Chemical Society, 2005, 127, 10889-10897.	6.6	170
128	Bioreactive Surfaces Prepared via the Self-Assembly of Dendron Thiols and Subsequent Dendrimer Bridging Reactions. Langmuir, 2005, 21, 1858-1865.	1.6	32
129	Size- and Shape-Controlled Magnetic (Cr, Mn, Fe, Co, Ni) Oxide Nanocrystals via a Simple and General Approach. Chemistry of Materials, 2004, 16, 3931-3935.	3.2	814
130	In Situ Observation of the Nucleation and Growth of CdSe Nanocrystals. Nano Letters, 2004, 4, 465-469.	4.5	196
131	Environmental Effects on Photoluminescence of Highly Luminescent CdSe and CdSe/ZnS Core/Shell Nanocrystals in Polymer Thin Films. Journal of Physical Chemistry B, 2004, 108, 5507-5515.	1.2	159
132	High Quality ZnSe and ZnS Nanocrystals Formed by Activating Zinc Carboxylate Precursors. Nano Letters, 2004, 4, 2261-2264.	4.5	335
133	Photocatalytic Activity of Gold Nanocrystals and Its Role in Determining the Stability of Surface Thiol Monolayers. Journal of Nanoscience and Nanotechnology, 2004, 4, 565-568.	0.9	5
134	Experimental Determination of the Extinction Coefficient of CdTe, CdSe, and CdS Nanocrystals. Chemistry of Materials, 2003, 15, 2854-2860.	3.2	4,738
135	Single-Phase and Gram-Scale Routes toward Nearly Monodisperse Au and Other Noble Metal Nanocrystals. Journal of the American Chemical Society, 2003, 125, 14280-14281.	6.6	540
136	Large-Scale Synthesis of Nearly Monodisperse CdSe/CdS Core/Shell Nanocrystals Using Air-Stable Reagents via Successive Ion Layer Adsorption and Reaction. Journal of the American Chemical Society, 2003, 125, 12567-12575.	6.6	1,468
137	Nanocrystal in dendron-box: a versatile solution to the chemical, photochemical, and thermal instability of colloidal nanocrystals. Comptes Rendus Chimie, 2003, 6, 989-997.	0.2	7
138	Mechanisms for the Shape-Control and Shape-Evolution of Colloidal Semiconductor Nanocrystals. Advanced Materials, 2003, 15, 459-463.	11.1	628
139	Colloidal Two-Dimensional Systems: CdSe Quantum Shells and Wells. Angewandte Chemie - International Edition, 2003, 42, 5035-5039.	7.2	184
140	Formation and Stability of Size-, Shape-, and Structure-Controlled CdTe Nanocrystals:Â Ligand Effects on Monomers and Nanocrystals. Chemistry of Materials, 2003, 15, 4300-4308.	3.2	752
141	Luminescent CdSe/CdS Core/Shell Nanocrystals in Dendron Boxes:Â Superior Chemical, Photochemical and Thermal Stability. Journal of the American Chemical Society, 2003, 125, 3901-3909.	6.6	308
142	Surface-Related Emission in Highly Luminescent CdSe Quantum Dots. Nano Letters, 2003, 3, 1103-1106.	4.5	495
143	Conjugation Chemistry and Bioapplications of Semiconductor Box Nanocrystals Prepared via Dendrimer Bridging. Chemistry of Materials, 2003, 15, 3125-3133.	3.2	197
144	Photoluminescence upconversion in colloidal CdTe quantum dots. Physical Review B, 2003, 68, .	1.1	100

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145	Photoactivated CdSe Nanocrystals as Nanosensors for Gases. Nano Letters, 2003, 3, 819-822.	4.5	249
146	Formation of High Quality InP and InAs Nanocrystals in a Noncoordinating Solvent. Nano Letters, 2002, 2, 1027-1030.	4.5	501
147	Lattice contraction in free-standing CdSe nanocrystals. Applied Physics Letters, 2002, 81, 2076-2078.	1.5	136
148	Stabilization of Inorganic Nanocrystals by Organic Dendrons. Journal of the American Chemical Society, 2002, 124, 2293-2298.	6.6	316
149	Future directions in solid state chemistry: report of the NSF-sponsored workshop. Progress in Solid State Chemistry, 2002, 30, 1-101.	3.9	24
150	Green Chemical Approaches toward High-Quality Semiconductor Nanocrystals. Chemistry - A European Journal, 2002, 8, 334-339.	1.7	204
151	Formation of High-Quality CdS and Other II-VI Semiconductor Nanocrystals in Noncoordinating Solvents: Tunable Reactivity of Monomers. Angewandte Chemie - International Edition, 2002, 41, 2368-2371.	7.2	1,174
152	Photoluminescence from single CdSe quantum rods. Journal of Luminescence, 2002, 97, 205-211.	1.5	34
153	Nearly Monodisperse and Shape-Controlled CdSe Nanocrystals via Alternative Routes:â€‰ Nucleation and Growth. Journal of the American Chemical Society, 2002, 124, 3343-3353.	6.6	1,461
154	Control of Photoluminescence Properties of CdSe Nanocrystals in Growth. Journal of the American Chemical Society, 2002, 124, 2049-2055.	6.6	1,582
155	Formation of High-Quality CdS and Other IIâ€“VI Semiconductor Nanocrystals in Noncoordinating Solvents: Tunable Reactivity of Monomers. , 2002, 41, 2368.		4
156	Photochemical Instability of CdSe Nanocrystals Coated by Hydrophilic Thiols. Journal of the American Chemical Society, 2001, 123, 8844-8850.	6.6	1,042
157	Polarization spectroscopy of single CdSe quantum rods. Physical Review B, 2001, 64, .	1.1	94
158	Mechanisms of the Shape Evolution of CdSe Nanocrystals. Journal of the American Chemical Society, 2001, 123, 1389-1395.	6.6	1,243
159	Alternative Routes toward High Quality CdSe Nanocrystals. Nano Letters, 2001, 1, 333-337.	4.5	942
160	Formation of High-Quality CdTe, CdSe, and CdS Nanocrystals Using CdO as Precursor. Journal of the American Chemical Society, 2001, 123, 183-184.	6.6	2,648
161	Shape control of CdSe nanocrystals. Nature, 2000, 404, 59-61.	13.7	4,216
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