Xinhua Zhong

List of Publications by Year
in descending order

205 papers	15,301 citations	11639 70 h-index	19169 118 g-index
208 all docs	208 docs citations	208 times ranked	12810 citing authors

#	Article	IF	Citations
1	Synergistic passivation by alkali metal and halogenoid ions for high efficiency HTM-free carbon-based CsPbI2Br solar cells. Chemical Engineering Journal, 2022, 430, 133083.	6.6	26
2	Dualâ€Functional Quantum Dot Seeding Growth of Highâ€Quality Airâ€Processed CsPbI₂Br Film for Carbonâ€Based Perovskite Solar Cells. Solar Rrl, 2022, 6, 2100989.	3.1	20
3	Free-standing 3D nitrogen-doped graphene/Co4N aerogels with ultrahigh sulfur loading for high volumetric energy density Li-S batteries. Journal of Alloys and Compounds, 2022, 901, 163625.	2.8	25
4	Colloidal Inorganic Ligand-Capped Nanocrystals: Fundamentals, Status, and Insights into Advanced Functional Nanodevices. Chemical Reviews, 2022, 122, 4091-4162.	23.0	52
5	Airâ€Processed Carbonâ€Based Cs_{0.5}FA_{0.5}PbI₃â€“Cs₄PbI₆ Heterostructure Perovskite Solar Cells with Efficiency Over 16%. Solar Rrl, 2022, 6, .	3.1	11
6	Cs2SnI6 nanocrystals enhancing hole extraction for efficient carbon-based CsPbI2Br perovskite solar cells. Chemical Engineering Journal, 2022, 440, 135710.	6.6	31
7	FeCo alloy@N-doped graphitized carbon as an efficient cocatalyst for enhanced photocatalytic H2 evolution by inducing accelerated charge transfer. Journal of Energy Chemistry, 2021, 52, 92-101.	7.1	37
8	Antioxidative Stannous Oxalate Derived Leadâ€Free Stable CsSnX₃ (X=Cl, Br, and I) Perovskite Nanocrystals. Angewandte Chemie, 2021, 133, 670-675.	1.6	23
9	Allâ€Inorganic CsPbI₃ Quantum Dot Solar Cells with Efficiency over 16% by Defect Control. Advanced Functional Materials, 2021, 31, 2005930.	7.8	101
10	Znâ€Cuâ€Inâ€Sâ€Se Quinary â€œGreenâ€• Alloyed Quantumâ€Dotâ€Sensitized Solar Cells with a Certified Efficiency of 14.4â€‰%. Angewandte Chemie - International Edition, 2021, 60, 6137-6144.	7.2	72
11	Hole transport materials mediating hole transfer for high efficiency quantum dot sensitized solar cells. Journal of Materials Chemistry A, 2021, 9, 997-1005.	5.2	12
12	Antioxidative Stannous Oxalate Derived Leadâ€Free Stable CsSnX₃ (X=Cl, Br, and I) Perovskite Nanocrystals. Angewandte Chemie - International Edition, 2021, 60, 660-665.	7.2	55
13	Coupling CsPbBr₃ Quantum Dots with Covalent Triazine Frameworks for Visibleâ€Lightâ€Driven CO₂ Reduction. ChemSusChem, 2021, 14, 1131-1139.	3.6	52
14	Znâ€Cuâ€Inâ€Sâ€Se Quinary â€œGreenâ€• Alloyed Quantumâ€Dotâ€Sensitized Solar Cells with a Certified Efficiency of 14.4â€‰%. Angewandte Chemie, 2021, 133, 6202-6209.	1.6	8
15	Improving the Efficiency of Quantum Dot Sensitized Solar Cells beyond 15% via Secondary Deposition. Journal of the American Chemical Society, 2021, 143, 4790-4800.	6.6	112
16	Modification of Energy Level Alignment for Boosting Carbonâ€Based CsPbI₂Br Solar Cells with 14% Certified Efficiency. Advanced Functional Materials, 2021, 31, 2011187.	7.8	89
17	Vanadium Nitride Quantum Dots/Holey Graphene Matrix Boosting Adsorption and Conversion Reaction Kinetics for High-Performance Lithiumâ€“Sulfur Batteries. ACS Applied Materials & Interfaces, 2021, 13, 30746-30755.	4.0	29
18	Modification of compact TiO2 layer by TiCl4-TiCl3 mixture treatment and construction of high-efficiency carbon-based CsPbI2Br perovskite solar cells. Journal of Energy Chemistry, 2021, 63, 442-451.	7.1	17

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19	Lightweight Free-Standing 3D Nitrogen-Doped Graphene/TiN Aerogels with Ultrahigh Sulfur Loading for High Energy Density Liâ€“S Batteries. ACS Applied Energy Materials, 2021, 4, 7599-7610.	2.5	15
20	Proton Initiated Ligand Exchange Reactions for Colloidal Nanocrystals Functionalized by Inorganic Ligands with Extremely Weak Coordination Ability. Chemistry of Materials, 2020, 32, 630-637.	3.2	14
21	<i>In situ</i> photo-derived MnOOH collaborating with Mn₂Co₂C@C dual co-catalysts boost photocatalytic overall water splitting. Journal of Materials Chemistry A, 2020, 8, 17120-17127.	5.2	24
22	Perovskiteâ€Compatible Carbon Electrode Improving the Efficiency and Stability of CsPbI₂Br Solar Cells. Solar Rrl, 2020, 4, 2000431.	3.1	30
23	Enhancing Adsorption and Reaction Kinetics of Polysulfides Using CoP-Coated N-Doped Mesoporous Carbon for High-Energy-Density Lithiumâ€“Sulfur Batteries. ACS Applied Materials & Interfaces, 2020, 12, 43844-43853.	4.0	60
24	Mild-method synthesised rGOâ€“TiO2 as an effective Polysulphideâ€“Barrier for Lithiumâ€“Sulphur batteries. Journal of Alloys and Compounds, 2020, 836, 155341.	2.8	17
25	Quantum dot materials engineering boosting the quantum dot sensitized solar cell efficiency over 13%. Journal of Materials Chemistry A, 2020, 8, 10233-10241.	5.2	61
26	FeNi intermetallic compound nanoparticles wrapped with N-doped graphitized carbon: a novel cocatalyst for boosting photocatalytic hydrogen evolution. Journal of Materials Chemistry A, 2020, 8, 3481-3490.	5.2	45
27	Bifunctional TiS2/CNT as efficient polysulfide barrier to improve the performance of lithiumâ€“sulfur battery. Journal of Alloys and Compounds, 2020, 832, 154947.	2.8	34
28	<i>In Situ</i> Photodeposited Construction of Ptâ€“CdS/g-C₃N₄â€“MnO_{<i>x</i>} Composite Photocatalyst for Efficient Visible-Light-Driven Overall Water Splitting. ACS Applied Materials & Interfaces, 2020, 12, 20579-20588.	4.0	111
29	MOF-Derived Co,N Codoped Carbon/Ti Mesh Counter Electrode for High-Efficiency Quantum Dot Sensitized Solar Cells. Journal of Physical Chemistry Letters, 2019, 10, 4974-4979.	2.1	25
30	ZnS_{<i>x</i>}Se_{1â€“<i>x</i>} Alloy Passivation Layer for High-Efficiency Quantum-Dot-Sensitized Solar Cells. ACS Applied Materials & Interfaces, 2019, 11, 41415-41423.	4.0	29
31	Boosting the Performance of Environmentally Friendly Quantum Dotâ€Sensitized Solar Cells over 13% Efficiency by Dual Sensitizers with Cascade Energy Structure. Advanced Materials, 2019, 31, e1903696.	11.1	51
32	Modified Graphitic Carbon Nitride Nanosheets for Efficient Photocatalytic Hydrogen Evolution. ChemSusChem, 2019, 12, 4996-5006.	3.6	43
33	TiO2 hierarchical nanowire-P25 particulate composite photoanodes in combination with N-doped mesoporous carbon/Ti counter electrodes for high performance quantum dot-sensitized solar cells. Solar Energy, 2019, 191, 459-467.	2.9	11
34	Ternary Monolithic ZnS/CdS/rGO Photomembrane with Desirable Charge Separation/Transfer Routes for Effective Photocatalytic and Photoelectrochemical Hydrogen Generation. Chemistry - an Asian Journal, 2019, 14, 3431-3441.	1.7	9
35	One-step solution deposition of CsPbBr₃based on precursor engineering for efficient all-inorganic perovskite solar cells. Journal of Materials Chemistry A, 2019, 7, 22420-22428.	5.2	116
36	Dip-coated colloidal quantum-dot films for high-performance broadband photodetectors. Journal of Materials Chemistry C, 2019, 7, 6266-6272.	2.7	21

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37	Enhancing Loading Amount and Performance of Quantum-Dot-Sensitized Solar Cells Based on Direct Adsorption of Quantum Dots from Bicomponent Solvents. Journal of Physical Chemistry Letters, 2019, 10, 229-237.	2.1	21
38	Selenium cooperated polysulfide electrolyte for efficiency enhancement of quantum dot-sensitized solar cells. Journal of Energy Chemistry, 2019, 38, 147-152.	7.1	15
39	Recent advances in electrolytes for quantum dot-sensitized solar cells. Journal of Materials Chemistry A, 2018, 6, 4895-4911.	5.2	61
40	Solar Paint from TiO2 Particles Supported Quantum Dots for Photoanodes in Quantum Dotâ€“Sensitized Solar Cells. ACS Omega, 2018, 3, 1102-1109.	1.6	24
41	Hybrid Organic/PbS Quantum Dot Bilayer Photodetector with Low Dark Current and High Detectivity. Advanced Functional Materials, 2018, 28, 1706690.	7.8	143
42	Comparative advantages of Znâ€“Cuâ€“Inâ€“S alloy QDs in the construction of quantum dot-sensitized solar cells. RSC Advances, 2018, 8, 3637-3645.	1.7	52
43	Cosensitized Quantum Dot Solar Cells with Conversion Efficiency over 12%. Advanced Materials, 2018, 30, 1705746.	11.1	148
44	Metalâ€“organic framework derived Co,N-bidoped carbons as superior electrode catalysts for quantum dot sensitized solar cells. Journal of Materials Chemistry A, 2018, 6, 2129-2138.	5.2	41
45	Quantum dot-sensitized solar cells. Chemical Society Reviews, 2018, 47, 7659-7702.	18.7	344
46	Self-supported metal sulphide nanocrystals-assembled nanosheets on carbon paper as efficient counter electrodes for quantum-dot-sensitized solar cells. Science China Chemistry, 2018, 61, 1338-1344.	4.2	7
47	Origin of the effects of PEG additives in electrolytes on the performance of quantum dot sensitized solar cells. RSC Advances, 2018, 8, 29958-29966.	1.7	10
48	Alloying Strategy in Cuâ€“Inâ€“Gaâ€“Se Quantum Dots for High Efficiency Quantum Dot Sensitized Solar Cells. ACS Applied Materials & Interfaces, 2017, 9, 5328-5336.	4.0	87
49	Nitrogen-Doped Mesoporous Carbons as Counter Electrodes in Quantum Dot Sensitized Solar Cells with a Conversion Efficiency Exceeding 12%. Journal of Physical Chemistry Letters, 2017, 8, 559-564.	2.1	193
50	Titanium mesh based fully flexible highly efficient quantum dots sensitized solar cells. Journal of Materials Chemistry A, 2017, 5, 5577-5584.	5.2	13
51	High Efficiency Quantum Dot Sensitized Solar Cells Based on Direct Adsorption of Quantum Dots on Photoanodes. ACS Applied Materials & Interfaces, 2017, 9, 22549-22559.	4.0	39
52	Inorganic Ligand Thiosulfate-Capped Quantum Dots for Efficient Quantum Dot Sensitized Solar Cells. ACS Applied Materials & Interfaces, 2017, 9, 18936-18944.	4.0	28
53	Bilayer PbS Quantum Dots for Highâ€Performance Photodetectors. Advanced Materials, 2017, 29, 1702055.	11.1	189
54	Quantum dot sensitized solar cells with efficiency over 12% based on tetraethyl orthosilicate additive in polysulfide electrolyte. Journal of Materials Chemistry A, 2017, 5, 14124-14133.	5.2	86

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55	Graphene hydrogel-based counter electrode for high efficiency quantum dot-sensitized solar cells. Journal of Materials Chemistry A, 2017, 5, 1614-1622.	5.2	49
56	Three-dimensional nanostructured electrodes for efficient quantum-dot-sensitized solar cells. Nano Energy, 2017, 32, 130-156.	8.2	73
57	Copper deficient Znâ€“Cuâ€“Inâ€“Se quantum dot sensitized solar cells for high efficiency. Journal of Materials Chemistry A, 2017, 5, 21442-21451.	5.2	73
58	TiO₂ Nanocrystal/Perovskite Bilayer for Highâ€Performance Photodetectors. Advanced Electronic Materials, 2017, 3, 1700251.	2.6	39
59	Enhancing Electron and Hole Extractions for Efficient PbS Quantum Dot Solar Cells. Solar Rrl, 2017, 1, 1700176.	3.1	12
60	High-Quality Water-Soluble Core/Shell/Shell CdSe/CdS/ZnS Quantum Dots Balanced by Ionic and Nonionic Hydrophilic Capping Ligands. Nano, 2016, 11, 1650073.	0.5	4
61	Surface engineering of PbS quantum dot sensitized solar cells with a conversion efficiency exceeding 7%. Journal of Materials Chemistry A, 2016, 4, 7214-7221.	5.2	101
62	CdTe based quantum dot sensitized solar cells with efficiency exceeding 7% fabricated from quantum dots prepared in aqueous media. Journal of Materials Chemistry A, 2016, 4, 16553-16561.	5.2	72
63	Carbon Counter-Electrode-Based Quantum-Dot-Sensitized Solar Cells with Certified Efficiency Exceeding 11%. Journal of Physical Chemistry Letters, 2016, 7, 3103-3111.	2.1	169
64	Quasi-solid-state quantum dot sensitized solar cells with power conversion efficiency over 9% and high stability. Journal of Materials Chemistry A, 2016, 4, 14849-14856.	5.2	47
65	Controlled Sulfidation Approach for Copper Sulfideâ€“Carbon Hybrid as an Effective Counter Electrode in Quantum-Dot-Sensitized Solar Cells. Journal of Physical Chemistry C, 2016, 120, 16500-16506.	1.5	26
66	A ZnS and metal hydroxide composite passivation layer for recombination control in high efficiency quantum dot sensitized solar cells. Journal of Materials Chemistry A, 2016, 4, 18976-18982.	5.2	25
67	Improving Loading Amount and Performance of Quantum Dot-Sensitized Solar Cells through Metal Salt Solutions Treatment on Photoanode. ACS Applied Materials & Interfaces, 2016, 8, 31006-31015.	4.0	24
68	Continuous Preparation of Copper/Carbon Nanotube Composite Films and Application in Solar Cells. ChemSusChem, 2016, 9, 296-301.	3.6	7
69	Controlled synthesis and characterizations of thermo-stabilized Ag3PO4 crystals. Research on Chemical Intermediates, 2016, 42, 8285-8304.	1.3	4
70	Enhanced Photocatalytic Degradation of Organic Dyes by Palladium Nanocrystals. Journal of Nanoscience and Nanotechnology, 2016, 16, 7497-7502.	0.9	1
71	Poly(vinyl pyrrolidone): a superior and general additive in polysulfide electrolytes for high efficiency quantum dot sensitized solar cells. Journal of Materials Chemistry A, 2016, 4, 11416-11421.	5.2	49
72	A panel of promoter methylation markers for invasive and noninvasive early detection of NSCLC using a quantum dots-based FRET approach. Biosensors and Bioelectronics, 2016, 85, 641-648.	5.3	32

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73	Cuprous sulfide on Ni foam as a counter electrode for flexible quantum dot sensitized solar cells. Journal of Materials Chemistry A, 2016, 4, 11754-11761.	5.2	26
74	Charge Recombination Control for High Efficiency Quantum Dot Sensitized Solar Cells. Journal of Physical Chemistry Letters, 2016, 7, 406-417.	2.1	140
75	Mn doped quantum dot sensitized solar cells with power conversion efficiency exceeding 9%. Journal of Materials Chemistry A, 2016, 4, 877-886.	5.2	122
76	Quantum dot sensitized solar cells with efficiency up to 8.7% based on heavily copper-deficient copper selenide counter electrode. Nano Energy, 2016, 23, 60-69.	8.2	72
77	Effects of Metal Oxyhydroxide Coatings on Photoanode in Quantum Dot Sensitized Solar Cells. Chemistry of Materials, 2016, 28, 2323-2330.	3.2	63
78	Continuous Preparation of Carbon Nanotube Film and Its Applications in Fuel and Solar Cells. ACS Applied Materials & Interfaces, 2016, 8, 7818-7825.	4.0	23
79	Znâ€“Cuâ€“Inâ€“Se Quantum Dot Solar Cells with a Certified Power Conversion Efficiency of 11.6%. Journal of the American Chemical Society, 2016, 138, 4201-4209.	6.6	537
80	Highly efficient and stable quasi-solid-state quantum dot-sensitized solar cells based on a superabsorbent polyelectrolyte. Journal of Materials Chemistry A, 2016, 4, 1461-1468.	5.2	60
81	A strategy to boost the cell performance of CdSexTe1âˆ’x quantum dot sensitized solar cells over 8% by introducing Mn modified CdSe coating layer. Journal of Power Sources, 2016, 302, 266-273.	4.0	72
82	Direct Methylation of Amines with Carbon Dioxide and Molecular Hydrogen using Supported Gold Catalysts. ChemSusChem, 2015, 8, 3489-3496.	3.6	80
83	CdSeTe/CdS Type-I Core/Shell Quantum Dot Sensitized Solar Cells with Efficiency over 9%. Journal of Physical Chemistry C, 2015, 119, 28800-28808.	1.5	131
84	Direct methylation of N-methylaniline with CO₂/H₂ catalyzed by gold nanoparticles supported on alumina. RSC Advances, 2015, 5, 99678-99687.	1.7	31
85	Band Engineering in Core/Shell ZnTe/CdSe for Photovoltage and Efficiency Enhancement in Exciplex Quantum Dot Sensitized Solar Cells. ACS Nano, 2015, 9, 908-915.	7.3	241
86	Capping Ligand-Induced Self-Assembly for Quantum Dot Sensitized Solar Cells. Journal of Physical Chemistry Letters, 2015, 6, 796-806.	2.1	138
87	Performance enhancement of quantum dot sensitized solar cells by adding electrolyte additives. Journal of Materials Chemistry A, 2015, 3, 17091-17097.	5.2	49
88	Significant roughness enhancement of fluorine-doped tin oxide films with low resistivity and high transparency by using HNO₃ addition. RSC Advances, 2015, 5, 52174-52182.	1.7	7
89	Highly efficient, stable and reproducible CdSe-sensitized solar cells using copper sulfide as counter electrodes. Journal of Materials Chemistry A, 2015, 3, 6557-6564.	5.2	64
90	Dual Emissive Manganese and Copper Co-Doped Znâ€“Inâ€“S Quantum Dots as a Single Color-Converter for High Color Rendering White-Light-Emitting Diodes. ACS Applied Materials & Interfaces, 2015, 7, 8659-8666.	4.0	86

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91	Boosting the Open Circuit Voltage and Fill Factor of QDSSCs Using Hierarchically Assembled ITO@Cu₂S Nanowire Array Counter Electrodes. Nano Letters, 2015, 15, 3088-3095.	4.5	86
92	Boosting Power Conversion Efficiencies of Quantum-Dot-Sensitized Solar Cells Beyond 8% by Recombination Control. Journal of the American Chemical Society, 2015, 137, 5602-5609.	6.6	367
93	Optimizing the deposition of CdSe colloidal quantum dots on TiO₂film electrode via capping ligand induced self-assembly approach. RSC Advances, 2015, 5, 86023-86030.	1.7	22
94	Highly sensitive detection of DNA methylation levels by using a quantum dot-based FRET method. Nanoscale, 2015, 7, 17547-17555.	2.8	37
95	Graphene quantum dots assisted photovoltage and efficiency enhancement in CdSe quantum dot sensitized solar cells. Journal of Energy Chemistry, 2015, 24, 722-728.	7.1	22
96	Amorphous TiO₂ Buffer Layer Boosts Efficiency of Quantum Dot Sensitized Solar Cells to over 9%. Chemistry of Materials, 2015, 27, 8398-8405.	3.2	197
97	CuInSe₂ and CuInSe₂â€“ZnS based high efficiency â€œgreenâ€•quantum dot sensitized solar cells. Journal of Materials Chemistry A, 2015, 3, 1649-1655.	5.2	108
98	Morphology control of fluorine-doped tin oxide thin films for enhanced light trapping. Solar Energy Materials and Solar Cells, 2015, 132, 578-588.	3.0	30
99	Pre-synthesized quantum dot deposition approach to obtain high efficient quantum dot solar cells. Wuli Xuebao/Acta Physica Sinica, 2015, 64, 038806.	0.2	8
100	Fractional Contributions of Defect-Originated Photoluminescence from CuInS₂/ZnS Coreshells for Hybrid White LEDs. Journal of Nanomaterials, 2014, 2014, 1-7.	1.5	4
101	Topotactically Grown Bismuth Sulfide Network Film on Substrate as Low-Cost Counter Electrodes for Quantum Dot-Sensitized Solar Cells. Journal of Physical Chemistry C, 2014, 118, 16602-16610.	1.5	35
102	Adenosine capped QDs based fluorescent sensor for detection of dopamine with high selectivity and sensitivity. Analyst, The, 2014, 139, 93-98.	1.7	108
103	Quantum dots-based ratiometric fluorescence probe for mercuric ions in biological fluids. Talanta, 2014, 119, 564-571.	2.9	47
104	Influence of linker molecules on interfacial electron transfer and photovoltaic performance of quantum dot sensitized solar cells. Journal of Materials Chemistry A, 2014, 2, 20882-20888.	5.2	52
105	Highly bright water-soluble silica coated quantum dots with excellent stability. Journal of Materials Chemistry B, 2014, 2, 5043-5051.	2.9	55
106	Visual detection of biological thiols based on lightening quantum dotâ€“TiO2 composites. Analyst, The, 2014, 139, 996.	1.7	7
107	Color-Tunable Highly Bright Photoluminescence of Cadmium-Free Cu-Doped Znâ€“Inâ€“S Nanocrystals and Electroluminescence. Chemistry of Materials, 2014, 26, 1204-1212.	3.2	190
108	Distinguishing Localized Surface Plasmon Resonance and Schottky Junction of Auâ€“Cu₂O Composites by Their Molecular Spacer Dependence. ACS Applied Materials & Interfaces, 2014, 6, 10958-10962.	4.0	63

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109	Encapsulation of Quantum Dot Clusters in Stimuli-Responsive Spherical Polyelectrolyte Brushes. Industrial & Engineering Chemistry Research, 2014, 53, 11326-11332.	1.8	6
110	Silica coating of luminescent quantum dots prepared in aqueous media for cellular labeling. Materials Research Bulletin, 2014, 60, 543-551.	2.7	12
111	High-Efficiency â€œGreenâ€•Quantum Dot Solar Cells. Journal of the American Chemical Society, 2014, 136, 9203-9210.	6.6	547
112	Nanostructure and charge transfer in Bi₂S₃-TiO₂ heterostructures. Nanotechnology, 2014, 25, 215702.	1.3	32
113	Electroplating Cuprous Sulfide Counter Electrode for High-Efficiency Long-Term Stability Quantum Dot Sensitized Solar Cells. Journal of Physical Chemistry C, 2014, 118, 5683-5690.	1.5	130
114	Optimization of TiO₂photoanode films for highly efficient quantum dot-sensitized solar cells. Journal of Materials Chemistry A, 2014, 2, 13033.	5.2	98
115	Influence of Preferred Orientation on the Electrical Conductivity of Fluorine-Doped Tin Oxide Films. Scientific Reports, 2014, 4, 3679.	1.6	54
116	Mitochondrial injury induced by nanosized titanium dioxide in A549 cells and rats. Environmental Toxicology and Pharmacology, 2013, 36, 66-72.	2.0	48
117	Core/Shell Colloidal Quantum Dot Exciplex States for the Development of Highly Efficient Quantum-Dot-Sensitized Solar Cells. Journal of the American Chemical Society, 2013, 135, 15913-15922.	6.6	400
118	Noninjection ultralarge-scaled synthesis of shape-tunable CdS nanocrystals as photocatalysts. RSC Advances, 2013, 3, 17477.	1.7	10
119	Facile synthesis of ZnSâ€“CdIn2S4-alloyed nanocrystals with tunable band gap and its photocatalytic activity. Journal of Luminescence, 2013, 135, 47-54.	1.5	7
120	Dimensionality-dependent performance of nanostructured bismuth sulfide in photodegradation of organic dyes. Materials Chemistry and Physics, 2013, 138, 755-761.	2.0	21
121	A quantum dot-based â€œoffâ€“onâ€•fluorescent probe for biological detection of zinc ions. Analyst, The, 2013, 138, 2181.	1.7	34
122	Near Infrared Absorption of CdSe_{<i>x</i>}Te_{1â€“<i>x</i>} Alloyed Quantum Dot Sensitized Solar Cells with More than 6% Efficiency and High Stability. ACS Nano, 2013, 7, 5215-5222.	7.3	374
123	Stable water-soluble quantum dots capped by poly(ethylene glycol) modified dithiocarbamate. Colloids and Surfaces A: Physicochemical and Engineering Aspects, 2012, 410, 144-152.	2.3	14
124	Scalable Single-Step Noninjection Synthesis of High-Quality Core/Shell Quantum Dots with Emission Tunable from Violet to Near Infrared. ACS Nano, 2012, 6, 11066-11073.	7.3	61
125	Efficient CdSe quantum dot-sensitized solar cells prepared by a postsynthesis assembly approach. Chemical Communications, 2012, 48, 11235.	2.2	231
126	Hg²⁺-mediated aggregation of gold nanoparticles for colorimetric screening of biothiols. Analyst, The, 2012, 137, 924-931.	1.7	101

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127	A general and reversible phase transfer strategy enabling nucleotides modified high-quality water-soluble nanocrystals. Chemical Communications, 2012, 48, 5718.	2.2	30
128	Controlled synthesis of silver phosphate crystals with high photocatalytic activity and bacteriostatic activity. CrystEngComm, 2012, 14, 8714.	1.3	75
129	Noninjection Facile Synthesis of Gram-Scale Highly Luminescent CdSe Multipod Nanocrystals. Inorganic Chemistry, 2012, 51, 531-535.	1.9	17
130	Highly Efficient Inverted Type-I CdS/CdSe Core/Shell Structure QD-Sensitized Solar Cells. ACS Nano, 2012, 6, 3982-3991.	7.3	307
131	One-Pot Noninjection Synthesis of Cu-Doped Zn_{<i>x</i>}Cd_{1-<i>x</i>}S Nanocrystals with Emission Color Tunable over Entire Visible Spectrum. Inorganic Chemistry, 2012, 51, 3579-3587.	1.9	76
132	Size- and Composition-Dependent Energy Transfer from Charge Transporting Materials to ZnCuInS Quantum Dots. Journal of Physical Chemistry C, 2012, 116, 11973-11979.	1.5	39
133	One-step synthesis of water-soluble AgInS2 and ZnSâ€“AgInS2 composite nanocrystals and their photocatalytic activities. Journal of Colloid and Interface Science, 2012, 377, 27-33.	5.0	87
134	Semiconductor quantum dots photosensitizing release of anticancer drug. Chemical Communications, 2011, 47, 1482-1484.	2.2	23
135	Facile Synthesis of ZnSâˆ’CuInS₂-Alloyed Nanocrystals for a Color-Tunable Fluorchrome and Photocatalyst. Inorganic Chemistry, 2011, 50, 4065-4072.	1.9	231
136	Anti-aggregation of gold nanoparticle-based colorimetric sensor for glutathione with excellent selectivity and sensitivity. Analyst, The, 2011, 136, 196-200.	1.7	109
137	Single-Crystal Bi₂S₃ Nanosheets Growing via Attachmentâ€“Recrystallization of Nanorods. Inorganic Chemistry, 2011, 50, 7729-7734.	1.9	50
138	Facile Synthesis of Highly Luminescent Mn-Doped ZnS Nanocrystals. Inorganic Chemistry, 2011, 50, 10432-10438.	1.9	89
139	Highly selective and sensitive visualizable detection of Hg2+ based on anti-aggregation of gold nanoparticles. Talanta, 2011, 84, 508-512.	2.9	81
140	Controllable growth of silver-seeded PbS nanostructures. Journal of Materials Science, 2011, 46, 670-674.	1.7	0
141	Quantum dot-based â€œturn-onâ€•fluorescent probe for detection of zinc and cadmium ions in aqueous media. Analytica Chimica Acta, 2011, 687, 82-88.	2.6	138
142	Nanostructuring Polymeric Materials by Templating Strategies. Small, 2011, 7, 1384-1391.	5.2	20
143	A novel metalâ€“organic framework with bifunctional tetrazolate-5-carboxylate ligand: Crystal structure and luminescent properties. Inorganic Chemistry Communication, 2011, 14, 407-410.	1.8	16
144	Depositing ZnS shell around ZnSe core nanocrystals in aqueous media via direct thermal treatment. Colloids and Surfaces A: Physicochemical and Engineering Aspects, 2011, 375, 109-116.	2.3	19

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145	Facile synthesis of red- to near-infrared-emitting CdTexSe1â ˆ’x alloyed quantum dots via a noninjection one-pot route. Journal of Luminescence, 2011, 131, 322-327.	1.5	38
146	Preparation of Bismuth Oxide Quantum Dots and their Photocatalytic Activity in a Homogeneous System. ChemCatChem, 2010, 2, 1115-1121.	1.8	31
147	Bi2S3 nanostructures: A new photocatalyst. Nano Research, 2010, 3, 379-386.	5.8	209
148	Single-source precursor route for overcoating CdS and ZnS shells around CdSe core nanocrystals. Frontiers of Chemistry in China: Selected Publications From Chinese Universities, 2010, 5, 214-220.	0.4	11
149	Controllable synthesis and optical properties of CdS/CdSe hetero-nanostructures with various dimensionalities. Materials Chemistry and Physics, 2010, 121, 118-124.	2.0	12
150	High Sensibility of Quantum Dots to Metal Ions Inspired by Hydroxyapatite Microbeads. Chinese Journal of Chemistry, 2010, 28, 1005-1012.	2.6	4
151	Quantum Dots Acting as Energy Acceptors with Organic Dyes as Donors in Solution. ChemPhysChem, 2010, 11, 3167-3171.	1.0	23
152	DNAzyme self-assembled gold nanoparticles for determination of metal ions using fluorescence anisotropy assay. Analytical Biochemistry, 2010, 401, 47-52.	1.1	107
153	QDs-DNA nanosensor for the detection of hepatitis B virus DNA and the single-base mutants. Biosensors and Bioelectronics, 2010, 25, 1934-1940.	5.3	133
154	Mn-doped ZnO nanonails and their magnetic properties. Nanotechnology, 2010, 21, 095606.	1.3	6
155	Bifunctional Multidentate Ligand Modified Highly Stable Water-Soluble Quantum Dots. Inorganic Chemistry, 2010, 49, 3768-3775.	1.9	95
156	Synthesis of highly luminescent Mn:ZnSe/ZnS nanocrystals in aqueous media. Nanotechnology, 2010, 21, 305604.	1.3	47
157	Highly selective detection of glutathione using a quantum-dot-based OFFâ€"ON fluorescent probe. Chemical Communications, 2010, 46, 2971.	2.2	159
158	Determination of dissolved oxygen based on photoinduced electron transfer from quantum dots to methyl viologen. Analytical Methods, 2010, 2, 1056.	1.3	15
159	Synthesis of Positively Charged Luminescent CdTe Nanocrystals in Aqueous Solution. Journal of Dispersion Science and Technology, 2009, 30, 388-393.	1.3	1
160	Design and Synthesis of High-Quality CdS/ZnSe Type-II Core/Shell Nanocrystals. Journal of Nanoscience and Nanotechnology, 2009, 9, 5880-5886.	0.9	5
161	Preparation of Highly Luminescent CdTe/CdS Core/Shell Quantum Dots. ChemPhysChem, 2009, 10, 680-685.	1.0	84
162	Aqueous phase synthesis of biostabilizer capped CdS nanocrystals with bright emission. Journal of Luminescence, 2009, 129, 536-540.	1.5	42

#	Article	IF	Citations
163	Design and Synthesis of Highly Luminescent Near-Infrared-Emitting Water-Soluble CdTe/CdSe/ZnS Core/Shell/Shell Quantum Dots. Inorganic Chemistry, 2009, 48, 9723-9731.	1.9	147
164	Anti-fouling characteristics of surface-confined oligonucleotide strands bioconjugated on streptavidin platforms in the presence of nanomaterials. Talanta, 2009, 78, 1102-1106.	2.9	9
165	Electrochemically Controlled Surface Plasmon Enhanced Fluorescence Response of Surface Immobilized CdZnSe Quantum Dots. Journal of Physical Chemistry C, 2009, 113, 6003-6008.	1.5	20
166	Depositing a Zn_{<i>x</i>}Cd_{1âˆ’<i>x</i>}S Shell around CdSe Core Nanocrystals via a Noninjection Approach in Aqueous Media. Journal of Physical Chemistry C, 2009, 113, 4301-4306.	1.5	30
167	Facile Synthesis of Highly Luminescent UV-Blue-Emitting ZnSe/ZnS Core/Shell Nanocrystals in Aqueous Media. Journal of Physical Chemistry C, 2009, 113, 14145-14150.	1.5	99
168	Growth of anisotropic platinum nanostructures catalyzed by gold seed nanoparticles. Nano Research, 2008, 1, 249-257.	5.8	19
169	Functional Quantumâ€Dot/Dendrimer Nanotubes for Sensitive Detection of DNA Hybridization. Small, 2008, 4, 566-571.	5.2	80
170	New strategy for band-gap tuning in semiconductor nanocrystals. Research on Chemical Intermediates, 2008, 34, 287-298.	1.3	10
171	Ultrafast synthesis of highly luminescent green- to near infrared-emitting CdTe nanocrystals in aqueous phase. Journal of Materials Chemistry, 2008, 18, 2807.	6.7	196
172	One-pot synthesis of highly luminescent CdTe/CdS core/shell nanocrystals in aqueous phase. Nanotechnology, 2008, 19, 135604.	1.3	121
173	Synthesis of highly stable dihydrolipoic acid capped water-soluble CdTe nanocrystals. Nanotechnology, 2008, 19, 235603.	1.3	45
174	Controlling the Synthesis of CoO Nanocrystals with Various Morphologies. Journal of Physical Chemistry C, 2008, 112, 5322-5327.	1.5	68
175	Nanoscopic building blocks from polymers, metals, and semiconductors. , 2007, , .		1
176	Alcoholysis route to monodisperse CoO nanotetrapods with tunable size. Nanotechnology, 2007, 18, 195605.	1.3	18
177	A facile route to violet- to orange-emitting Cd_{<i>x</i>}Zn_{1âˆ’<i>x</i>}Se alloy nanocrystals via cation exchange reaction. Nanotechnology, 2007, 18, 385606.	1.3	68
178	Monitoring the Covalent Binding of Quantum Dots to Functionalized Gold Surfaces by Surface Plasmon Resonance Spectroscopy. Journal of Physical Chemistry C, 2007, 111, 10313-10319.	1.5	11
179	Graded-Bandgap Quantum- Dot-Modified Nanotubes: A Sensitive Biosensor for Enhanced Detection of DNA Hybridization. Advanced Materials, 2007, 19, 1933-1936.	11.1	109
180	Facile and Reproducible Synthesis of Red-Emitting CdSe Nanocrystals in Amine with Long-Term Fixation of Particle Size and Size Distribution. Journal of Physical Chemistry C, 2007, 111, 526-531.	1.5	83

#	Article	IF	Citations
181	Facile Synthesis of Morphology-Controlled Platinum Nanocrystals. Chemistry of Materials, 2006, 18, 2468-2471.	3.2	119
182	Synthesis of Dumbbell-Shaped Manganese Oxide Nanocrystals. Journal of Physical Chemistry B, 2006, 110, 2-4.	1.2	68
183	OPTICS WITH NANO-SIZED STRUCTURES MADE FROM SEMICONDUCTORS AND (NOBLE) METALS. Journal of Nonlinear Optical Physics and Materials, 2006, 15, 355-367.	1.1	1
184	Aminolysis Route to Monodisperse Titania Nanorods with Tunable Aspect Ratio. Angewandte Chemie - International Edition, 2005, 44, 3466-3470.	7.2	219
185	Synthesis, Characterization, and Spectroscopy of Type-II Core/Shell Semiconductor Nanocrystals with ZnTe Cores. Advanced Materials, 2005, 17, 2741-2745.	11.1	176
186	Morphology-Controlled Large-Scale Synthesis of ZnO Nanocrystals from Bulk ZnO.. ChemInform, 2005, 36, no.	0.1	0
187	High-Quality Violet- to Red-Emitting ZnSe/CdSe Core/Shell Nanocrystals.. ChemInform, 2005, 36, no.	0.1	0
188	Memory in quantum-dot photoluminescence blinking. New Journal of Physics, 2005, 7, 197-197.	1.2	55
189	Quantification of photoinduced and spontaneous quantum-dot luminescence blinking. Physical Review B, 2005, 72, .	1.1	50
190	Morphology-controlled large-scale synthesis of ZnO nanocrystals from bulk ZnO. Chemical Communications, 2005, , 1158.	2.2	51
191	High-Quality Violet- to Red-Emitting ZnSe/CdSe Core/Shell Nanocrystals. Chemistry of Materials, 2005, 17, 4038-4042.	3.2	150
192	NANOSCOPIC BUILDING BLOCKS FROM POLYMERS, METALS, AND SEMICONDUCTORS FOR HYBRID ARCHITECTURES. Journal of Nonlinear Optical Physics and Materials, 2004, 13, 229-241.	1.1	7
193	Synthesis and structural studies of polynuclear ruthenium clusters derived from reactions of 1,2,3,4-tetraphenyl-1,2,3,4-tetraphospholane with [Ru3(CO)12]. Journal of Organometallic Chemistry, 2004, 689, 361-368.	0.8	8
194	Crystallographic characterization of the intermediate in the synthesis of tetrazole from nitrile and azide in water. Inorganic Chemistry Communication, 2004, 7, 492-494.	1.8	20
195	Embryonic Nuclei-Induced Alloying Process for the Reproducible Synthesis of Blue-Emitting ZnxCd1-xSe Nanocrystals with Long-Time Thermal Stability in Size Distribution and Emission Wavelength. Journal of Physical Chemistry B, 2004, 108, 15552-15559.	1.2	108
196	Synthesis of high-quality CdS, ZnS, and ZnxCd1â€‰â^’â€‰xS nanocrystals using metal salts and elemental sulfur. Journal of Materials Chemistry, 2004, 14, 2790-2794.	6.7	105
197	Composition-Tunable ZnxCd1-xSe Nanocrystals with High Luminescence and Stability. Journal of the American Chemical Society, 2003, 125, 8589-8594.	6.6	534
198	Synthesis, NMR and structural studies of cluster derivatives derived from reactions of 1,2,3-triphenyl-1,2,3-triphosphaindan with [Os3(CO)10(Î¼-H)2]. Journal of Organometallic Chemistry, 2003, 665, 218-225.	0.8	3

#	Article	IF	Citations
199	Alloyed ZnxCd1-xS Nanocrystals with Highly Narrow Luminescence Spectral Width. Journal of the American Chemical Society, 2003, 125, 13559-13563.	6.6	657
200	Strong optical limiting capability of a triosmium cluster bonded indium porphyrin complex [(TPP)InOs3(Î¼-H)2(CO)9(Î¼-Î·2-C5H4N)]. Chemical Communications, 2003, , 1882-1883.	2.2	26
201	1,2,3,4-Tetraphenyl-1,2,3,4-tetraphospholane, a Highly Versatile Cyclocarbaphosphine Ligand:Â Reactions with Activated Triosmium Clusters and Characterization of the Products. Inorganic Chemistry, 2002, 41, 3791-3800.	1.9	8
202	Reactions of 1,2,3-Triphenyl-1,2,3-triphosphaindan with Triruthenium Cluster. Phosphorus, Sulfur and Silicon and the Related Elements, 2002, 177, 1463-1467.	0.8	2
203	Reactions of 1,2,3-triphenyl-1,2,3-triphosphaindan with activated triosmium carbonyl clusters: characterization and crystal structure of the products. Dalton Transactions RSC, 2001, , 1151-1158.	2.3	9
204	A new method of preparation of iron(II) porphyrin complexesâ€"isolation and characterization of amine complexes of ferrous porphyrin. Polyhedron, 1996, 15, 2677-2679.	1.0	5
205	Facile synthesis of high-quality CdTe/CdS core/shell quantum dots in aqueous phase by using dual capping ligands. RSC Advances, 0, , .	1.7	1