Xinhua Zhong

List of Publications by Year in Descending Order

199 papers	12,967 citations	63 h-index	108 g-index
208 ext. papers	14,146 ext. citations	8.6 avg, IF	6.75 L-index

#	Paper	IF	Citations
199	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	5.7	2
198	Synergistic passivation by alkali metal and halogenoid ions for high efficiency HTM-free carbon-based CsPbI2Br solar cells. *Chemical Engineering Journal*, **2022**, 430, 133083	14.7	6
197	Cs2SnI6 nanocrystals enhancing hole extraction for efficient carbon-based CsPbI2Br perovskite solar cells. *Chemical Engineering Journal*, **2022**, 440, 135710	14.7	3
196	Colloidal Inorganic Ligand-Capped Nanocrystals: Fundamentals, Status, and Insights into Advanced Functional Nanodevices.. *Chemical Reviews*, **2021**,	68.1	13
195	Improving the Efficiency of Quantum Dot Sensitized Solar Cells beyond 15% via Secondary Deposition. *Journal of the American Chemical Society*, **2021**, 143, 4790-4800	16.4	37
194	Modification of Energy Level Alignment for Boosting Carbon-Based CsPbI2Br Solar Cells with 14% Certified Efficiency. *Advanced Functional Materials*, **2021**, 31, 2011187	15.6	34
193	Vanadium Nitride Quantum Dots/Holey Graphene Matrix Boosting Adsorption and Conversion Reaction Kinetics for High-Performance Lithium-Sulfur Batteries. *ACS Applied Materials & Interfaces*, **2021**, 13, 30746-30755	9.5	4
192	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, 442-442	12	5
191	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	12	20
190	Antioxidative Stannous Oxalate Derived Lead-Free Stable CsSnX3 (X=Cl, Br, and I) Perovskite Nanocrystals. *Angewandte Chemie*, **2021**, 133, 670-675	3.6	10
189	All-Inorganic CsPbI3 Quantum Dot Solar Cells with Efficiency over 16% by Defect Control. *Advanced Functional Materials*, **2021**, 31, 2005930	15.6	42
188	Zn-Cu-In-S-Se Quinary "Green" Alloyed Quantum-Dot-Sensitized Solar Cells with a Certified Efficiency of 14.4 . *Angewandte Chemie - International Edition*, **2021**, 60, 6137-6144	16.4	22
187	Hole transport materials mediating hole transfer for high efficiency quantum dot sensitized solar cells. *Journal of Materials Chemistry A*, **2021**, 9, 997-1005	13	6
186	Antioxidative Stannous Oxalate Derived Lead-Free Stable CsSnX (X=Cl, Br, and I) Perovskite Nanocrystals. *Angewandte Chemie - International Edition*, **2021**, 60, 660-665	16.4	25
185	Coupling CsPbBr Quantum Dots with Covalent Triazine Frameworks for Visible-Light-Driven CO Reduction. *ChemSusChem*, **2021**, 14, 1131-1139	8.3	20
184	Zn-Cu-In-S-Se Quinary "Green" Alloyed Quantum-Dot-Sensitized Solar Cells with a Certified Efficiency of 14.4 %. *Angewandte Chemie*, **2021**, 133, 6202-6209	3.6	4
183	Lightweight Free-Standing 3D Nitrogen-Doped Graphene/TiN Aerogels with Ultrahigh Sulfur Loading for High Energy Density Li-S Batteries. *ACS Applied Energy Materials*, **2021**, 4, 7599-7610	6.1	5

182	Mild-method synthesised rGO□TiO2 as an effective Polysulphide□Barrier for Lithium□Sulphur batteries. *Journal of Alloys and Compounds*, **2020**, 836, 155341	5.7	15
181	Quantum dot materials engineering boosting the quantum dot sensitized solar cell efficiency over 13%. *Journal of Materials Chemistry A*, **2020**, 8, 10233-10241	13	35
180	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	13	35
179	Bifunctional TiS2/CNT as efficient polysulfide barrier to improve the performance of lithium□sulfur battery. *Journal of Alloys and Compounds*, **2020**, 832, 154947	5.7	19
178	Proton Initiated Ligand Exchange Reactions for Colloidal Nanocrystals Functionalized by Inorganic Ligands with Extremely Weak Coordination Ability. *Chemistry of Materials*, **2020**, 32, 630-637	9.6	7
177	In situ photo-derived MnOOH collaborating with Mn2Co2C@C dual co-catalysts boost photocatalytic overall water splitting. *Journal of Materials Chemistry A*, **2020**, 8, 17120-17127	13	12
176	Perovskite-Compatible Carbon Electrode Improving the Efficiency and Stability of CsPbI2Br Solar Cells. *Solar Rrl*, **2020**, 4, 2000431	7.1	14
175	Enhancing Adsorption and Reaction Kinetics of Polysulfides Using CoP-Coated N-Doped Mesoporous Carbon for High-Energy-Density Lithium-Sulfur Batteries. *ACS Applied Materials & Interfaces*, **2020**, 12, 43844-43853	9.5	31
174	Photodeposited Construction of Pt-CdS/g-CN-MnO Composite Photocatalyst for Efficient Visible-Light-Driven Overall Water Splitting. *ACS Applied Materials & Interfaces*, **2020**, 12, 20579-20588	9.5	55
173	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	4.5	9
172	One-step solution deposition of CsPbBr3 based on precursor engineering for efficient all-inorganic perovskite solar cells. *Journal of Materials Chemistry A*, **2019**, 7, 22420-22428	13	73
171	Dip-coated colloidal quantum-dot films for high-performance broadband photodetectors. *Journal of Materials Chemistry C*, **2019**, 7, 6266-6272	7.1	14
170	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	6.4	21
169	ZnSSe Alloy Passivation Layer for High-Efficiency Quantum-Dot-Sensitized Solar Cells. *ACS Applied Materials & Interfaces*, **2019**, 11, 41415-41423	9.5	22
168	Boosting the Performance of Environmentally Friendly Quantum Dot-Sensitized Solar Cells over 13% Efficiency by Dual Sensitizers with Cascade Energy Structure. *Advanced Materials*, **2019**, 31, e1903696	24	37
167	Modified Graphitic Carbon Nitride Nanosheets for Efficient Photocatalytic Hydrogen Evolution. *ChemSusChem*, **2019**, 12, 4996-5006	8.3	33
166	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	6.8	5
165	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	6.4	16

164	Selenium cooperated polysulfide electrolyte for efficiency enhancement of quantum dot-sensitized solar cells. *Journal of Energy Chemistry*, **2019**, 38, 147-152	12	12
163	Recent advances in electrolytes for quantum dot-sensitized solar cells. *Journal of Materials Chemistry A*, **2018**, 6, 4895-4911	13	46
162	Solar Paint from TiO Particles Supported Quantum Dots for Photoanodes in Quantum Dot-Sensitized Solar Cells. *ACS Omega*, **2018**, 3, 1102-1109	3.9	20
161	Hybrid Organic/PbS Quantum Dot Bilayer Photodetector with Low Dark Current and High Detectivity. *Advanced Functional Materials*, **2018**, 28, 1706690	15.6	93
160	Comparative advantages of Zn-Cu-In-S alloy QDs in the construction of quantum dot-sensitized solar cells.. *RSC Advances*, **2018**, 8, 3637-3645	3.7	33
159	Cosensitized Quantum Dot Solar Cells with Conversion Efficiency over 12. *Advanced Materials*, **2018**, 30, 1705746	24	128
158	Metal□rganic 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	13	34
157	Quantum dot-sensitized solar cells. *Chemical Society Reviews*, **2018**, 47, 7659-7702	58.5	243
156	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	7.9	6
155	Origin of the effects of PEG additives in electrolytes on the performance of quantum dot sensitized solar cells.. *RSC Advances*, **2018**, 8, 29958-29966	3.7	8
154	Alloying Strategy in Cu-In-Ga-Se Quantum Dots for High Efficiency Quantum Dot Sensitized Solar Cells. *ACS Applied Materials & Interfaces*, **2017**, 9, 5328-5336	9.5	76
153	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	6.4	167
152	Titanium mesh based fully flexible highly efficient quantum dots sensitized solar cells. *Journal of Materials Chemistry A*, **2017**, 5, 5577-5584	13	9
151	High Efficiency Quantum Dot Sensitized Solar Cells Based on Direct Adsorption of Quantum Dots on Photoanodes. *ACS Applied Materials & Interfaces*, **2017**, 9, 22549-22559	9.5	33
150	Inorganic Ligand Thiosulfate-Capped Quantum Dots for Efficient Quantum Dot Sensitized Solar Cells. *ACS Applied Materials & Interfaces*, **2017**, 9, 18936-18944	9.5	21
149	Bilayer PbS Quantum Dots for High-Performance Photodetectors. *Advanced Materials*, **2017**, 29, 1702055	24	133
148	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	13	71
147	Graphene hydrogel-based counter electrode for high efficiency quantum dot-sensitized solar cells. *Journal of Materials Chemistry A*, **2017**, 5, 1614-1622	13	43

146	Three-dimensional nanostructured electrodes for efficient quantum-dot-sensitized solar cells. *Nano Energy*, **2017**, 32, 130-156	17.1	56
145	Copper deficient ZnCuInSe quantum dot sensitized solar cells for high efficiency. *Journal of Materials Chemistry A*, **2017**, 5, 21442-21451	13	55
144	TiO2 Nanocrystal/Perovskite Bilayer for High-Performance Photodetectors. *Advanced Electronic Materials*, **2017**, 3, 1700251	6.4	29
143	Enhancing Electron and Hole Extractions for Efficient PbS Quantum Dot Solar Cells. *Solar Rrl*, **2017**, 1, 1700176	7.1	12
142	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	13	42
141	Controlled Sulfidation Approach for Copper Sulfide–Carbon Hybrid as an Effective Counter Electrode in Quantum-Dot-Sensitized Solar Cells. *Journal of Physical Chemistry C*, **2016**, 120, 16500-16508	3.8	26
140	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	13	24
139	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	9.5	18
138	Continuous Preparation of Copper/Carbon Nanotube Composite Films and Application in Solar Cells. *ChemSusChem*, **2016**, 9, 296-301	8.3	7
137	Controlled synthesis and characterizations of thermo-stabilized Ag3PO4 crystals. *Research on Chemical Intermediates*, **2016**, 42, 8285-8304	2.8	2
136	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	13	38
135	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	11.8	28
134	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	13	23
133	Charge Recombination Control for High Efficiency Quantum Dot Sensitized Solar Cells. *Journal of Physical Chemistry Letters*, **2016**, 7, 406-17	6.4	123
132	Mn doped quantum dot sensitized solar cells with power conversion efficiency exceeding 9%. *Journal of Materials Chemistry A*, **2016**, 4, 877-886	13	108
131	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	17.1	63
130	Effects of Metal Oxyhydroxide Coatings on Photoanode in Quantum Dot Sensitized Solar Cells. *Chemistry of Materials*, **2016**, 28, 2323-2330	9.6	53
129	Continuous Preparation of Carbon Nanotube Film and Its Applications in Fuel and Solar Cells. *ACS Applied Materials & Interfaces*, **2016**, 8, 7818-25	9.5	18

128	Zn-Cu-In-Se Quantum Dot Solar Cells with a Certified Power Conversion Efficiency of 11.6%. *Journal of the American Chemical Society*, **2016**, 138, 4201-9	16.4	476
127	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	13	53
126	A strategy to boost the cell performance of CdSexTe1−x quantum dot sensitized solar cells over 8% by introducing Mn modified CdSe coating layer. *Journal of Power Sources*, **2016**, 302, 266-273	8.9	67
125	High-Quality Water-Soluble Core/Shell/Shell CdSe/CdS/ZnS Quantum Dots Balanced by Ionic and Nonionic Hydrophilic Capping Ligands. *Nano*, **2016**, 11, 1650073	1.1	4
124	Surface engineering of PbS quantum dot sensitized solar cells with a conversion efficiency exceeding 7%. *Journal of Materials Chemistry A*, **2016**, 4, 7214-7221	13	85
123	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	13	52
122	Carbon Counter-Electrode-Based Quantum-Dot-Sensitized Solar Cells with Certified Efficiency Exceeding 11. *Journal of Physical Chemistry Letters*, **2016**, 7, 3103-11	6.4	154
121	Performance enhancement of quantum dot sensitized solar cells by adding electrolyte additives. *Journal of Materials Chemistry A*, **2015**, 3, 17091-17097	13	45
120	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	3.7	6
119	Highly efficient, stable and reproducible CdSe-sensitized solar cells using copper sulfide as counter electrodes. *Journal of Materials Chemistry A*, **2015**, 3, 6557-6564	13	60
118	Dual emissive manganese and copper Co-doped Zn-In-S quantum dots as a single color-converter for high color rendering white-light-emitting diodes. *ACS Applied Materials & Interfaces*, **2015**, 7, 8659-66	9.5	76
117	Boosting the Open Circuit Voltage and Fill Factor of QDSSCs Using Hierarchically Assembled ITO@Cu2S Nanowire Array Counter Electrodes. *Nano Letters*, **2015**, 15, 3088-95	11.5	75
116	Boosting power conversion efficiencies of quantum-dot-sensitized solar cells beyond 8% by recombination control. *Journal of the American Chemical Society*, **2015**, 137, 5602-9	16.4	330
115	Optimizing the deposition of CdSe colloidal quantum dots on TiO2 film electrode via capping ligand induced self-assembly approach. *RSC Advances*, **2015**, 5, 86023-86030	3.7	18
114	Highly sensitive detection of DNA methylation levels by using a quantum dot-based FRET method. *Nanoscale*, **2015**, 7, 17547-55	7.7	34
113	Graphene quantum dots assisted photovoltage and efficiency enhancement in CdSe quantum dot sensitized solar cells. *Journal of Energy Chemistry*, **2015**, 24, 722-728	12	18
112	Amorphous TiO2 Buffer Layer Boosts Efficiency of Quantum Dot Sensitized Solar Cells to over 9%. *Chemistry of Materials*, **2015**, 27, 8398-8405	9.6	184
111	CuInSe2 and CuInSe2/ZnS based high efficiency "green" quantum dot sensitized solar cells. *Journal of Materials Chemistry A*, **2015**, 3, 1649-1655	13	96

110	Morphology control of fluorine-doped tin oxide thin films for enhanced light trapping. *Solar Energy Materials and Solar Cells*, **2015**, 132, 578-588	6.4	23
109	Direct Methylation of Amines with Carbon Dioxide and Molecular Hydrogen using Supported Gold Catalysts. *ChemSusChem*, **2015**, 8, 3489-96	8.3	63
108	CdSeTe/CdS Type-I Core/Shell Quantum Dot Sensitized Solar Cells with Efficiency over 9%. *Journal of Physical Chemistry C*, **2015**, 119, 28800-28808	3.8	114
107	Direct methylation of N-methylaniline with CO2/H2 catalyzed by gold nanoparticles supported on alumina. *RSC Advances*, **2015**, 5, 99678-99687	3.7	27
106	Band engineering in core/shell ZnTe/CdSe for photovoltage and efficiency enhancement in exciplex quantum dot sensitized solar cells. *ACS Nano*, **2015**, 9, 908-15	16.7	211
105	Capping Ligand-Induced Self-Assembly for Quantum Dot Sensitized Solar Cells. *Journal of Physical Chemistry Letters*, **2015**, 6, 796-806	6.4	121
104	Pre-synthesized quantum dot deposition approach to obtain high efficient quantum dot solar cells. *Wuli Xuebao/Acta Physica Sinica*, **2015**, 64, 038806	0.6	8
103	Influence of preferred orientation on the electrical conductivity of fluorine-doped tin oxide films. *Scientific Reports*, **2014**, 4, 3679	4.9	47
102	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	3.8	33
101	Adenosine capped QDs based fluorescent sensor for detection of dopamine with high selectivity and sensitivity. *Analyst, The*, **2014**, 139, 93-8	5	96
100	Quantum dots-based ratiometric fluorescence probe for mercuric ions in biological fluids. *Talanta*, **2014**, 119, 564-71	6.2	44
99	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	13	46
98	Highly bright water-soluble silica coated quantum dots with excellent stability. *Journal of Materials Chemistry B*, **2014**, 2, 5043-5051	7.3	47
97	Visual detection of biological thiols based on lightening quantum dot-TiO2 composites. *Analyst, The*, **2014**, 139, 996-9	5	5
96	Color-Tunable Highly Bright Photoluminescence of Cadmium-Free Cu-Doped ZnInS Nanocrystals and Electroluminescence. *Chemistry of Materials*, **2014**, 26, 1204-1212	9.6	170
95	Distinguishing localized surface plasmon resonance and Schottky junction of Au-CuO composites by their molecular spacer dependence. *ACS Applied Materials & Interfaces*, **2014**, 6, 10958-62	9.5	53
94	Encapsulation of Quantum Dot Clusters in Stimuli-Responsive Spherical Polyelectrolyte Brushes. *Industrial & Engineering Chemistry Research*, **2014**, 53, 11326-11332	3.9	6
93	Silica coating of luminescent quantum dots prepared in aqueous media for cellular labeling. *Materials Research Bulletin*, **2014**, 60, 543-551	5.1	11

92	High-efficiency "green" quantum dot solar cells. *Journal of the American Chemical Society*, **2014**, 136, 9203-10	16.4	502
91	Nanostructure and charge transfer in Bi2S3-TiO2 heterostructures. *Nanotechnology*, **2014**, 25, 215702	3.4	24
90	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	3.8	125
89	Optimization of TiO2 photoanode films for highly efficient quantum dot-sensitized solar cells. *Journal of Materials Chemistry A*, **2014**, 2, 13033	13	89
88	Fractional Contributions of Defect-Originated Photoluminescence from CuInS2/ZnS Coreshells for Hybrid White LEDs. *Journal of Nanomaterials*, **2014**, 2014, 1-7	3.2	4
87	Mitochondrial injury induced by nanosized titanium dioxide in A549 cells and rats. *Environmental Toxicology and Pharmacology*, **2013**, 36, 66-72	5.8	43
86	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, 15913-22	16.4	379
85	Noninjection ultralarge-scaled synthesis of shape-tunable CdS nanocrystals as photocatalysts. *RSC Advances*, **2013**, 3, 17477	3.7	9
84	Facile synthesis of ZnS□dIn2S4-alloyed nanocrystals with tunable band gap and its photocatalytic activity. *Journal of Luminescence*, **2013**, 135, 47-54	3.8	5
83	Dimensionality-dependent performance of nanostructured bismuth sulfide in photodegradation of organic dyes. *Materials Chemistry and Physics*, **2013**, 138, 755-761	4.4	18
82	A quantum dot-based "off-on" fluorescent probe for biological detection of zinc ions. *Analyst, The*, **2013**, 138, 2181-91	5	29
81	Near infrared absorption of CdSe(x)Te(1-x) alloyed quantum dot sensitized solar cells with more than 6% efficiency and high stability. *ACS Nano*, **2013**, 7, 5215-22	16.7	344
80	One-step synthesis of water-soluble AgInS2 and ZnS-AgInS2 composite nanocrystals and their photocatalytic activities. *Journal of Colloid and Interface Science*, **2012**, 377, 27-33	9.3	74
79	Stable water-soluble quantum dots capped by poly(ethylene glycol) modified dithiocarbamate. *Colloids and Surfaces A: Physicochemical and Engineering Aspects*, **2012**, 410, 144-152	5.1	12
78	Scalable single-step noninjection synthesis of high-quality core/shell quantum dots with emission tunable from violet to near infrared. *ACS Nano*, **2012**, 6, 11066-73	16.7	55
77	Efficient CdSe quantum dot-sensitized solar cells prepared by a postsynthesis assembly approach. *Chemical Communications*, **2012**, 48, 11235-7	5.8	201
76	Hg2+-mediated aggregation of gold nanoparticles for colorimetric screening of biothiols. *Analyst, The*, **2012**, 137, 924-31	5	91
75	A general and reversible phase transfer strategy enabling nucleotides modified high-quality water-soluble nanocrystals. *Chemical Communications*, **2012**, 48, 5718-20	5.8	28

74	Controlled synthesis of silver phosphate crystals with high photocatalytic activity and bacteriostatic activity. *CrystEngComm*, **2012**, 14, 8714	3.3	70
73	Noninjection facile synthesis of Gram-scale highly luminescent CdSe multipod nanocrystals. *Inorganic Chemistry*, **2012**, 51, 531-5	5.1	16
72	Highly efficient inverted type-I CdS/CdSe core/shell structure QD-sensitized solar cells. *ACS Nano*, **2012**, 6, 3982-91	16.7	281
71	One-pot noninjection synthesis of Cu-doped Zn(x)Cd(1-x)S nanocrystals with emission color tunable over entire visible spectrum. *Inorganic Chemistry*, **2012**, 51, 3579-87	5.1	70
70	Size- and Composition-Dependent Energy Transfer from Charge Transporting Materials to ZnCuInS Quantum Dots. *Journal of Physical Chemistry C*, **2012**, 116, 11973-11979	3.8	32
69	Facile synthesis of ZnS-CuInS2-alloyed nanocrystals for a color-tunable fluorchrome and photocatalyst. *Inorganic Chemistry*, **2011**, 50, 4065-72	5.1	222
68	Anti-aggregation of gold nanoparticle-based colorimetric sensor for glutathione with excellent selectivity and sensitivity. *Analyst, The*, **2011**, 136, 196-200	5	96
67	Single-crystal Bi2S3 nanosheets growing via attachment-recrystallization of nanorods. *Inorganic Chemistry*, **2011**, 50, 7729-34	5.1	43
66	Facile synthesis of highly luminescent Mn-doped ZnS nanocrystals. *Inorganic Chemistry*, **2011**, 50, 10432-8	5.1	79
65	Highly selective and sensitive visualizable detection of Hg2+ based on anti-aggregation of gold nanoparticles. *Talanta*, **2011**, 84, 508-12	6.2	74
64	Controllable growth of silver-seeded PbS nanostructures. *Journal of Materials Science*, **2011**, 46, 670-674	4.3	
63	Quantum dot-based "turn-on" fluorescent probe for detection of zinc and cadmium ions in aqueous media. *Analytica Chimica Acta*, **2011**, 687, 82-8	6.6	123
62	Nanostructuring polymeric materials by templating strategies. *Small*, **2011**, 7, 1384-91	11	16
61	A novel metal□rganic framework with bifunctional tetrazolate-5-carboxylate ligand: Crystal structure and luminescent properties. *Inorganic Chemistry Communication*, **2011**, 14, 407-410	3.1	16
60	Semiconductor quantum dots photosensitizing release of anticancer drug. *Chemical Communications*, **2011**, 47, 1482-4	5.8	19
59	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	5.1	18
58	Facile synthesis of red- to near-infrared-emitting CdTexSe1□ alloyed quantum dots via a noninjection one-pot route. *Journal of Luminescence*, **2011**, 131, 322-327	3.8	36
57	Mn-doped ZnO nanonails and their magnetic properties. *Nanotechnology*, **2010**, 21, 095606	3.4	5

56	Bifunctional multidentate ligand modified highly stable water-soluble quantum dots. *Inorganic Chemistry*, **2010**, 49, 3768-75	5.1	81
55	Synthesis of highly luminescent Mn:ZnSe/ZnS nanocrystals in aqueous media. *Nanotechnology*, **2010**, 21, 305604	3.4	46
54	Highly selective detection of glutathione using a quantum-dot-based OFF-ON fluorescent probe. *Chemical Communications*, **2010**, 46, 2971-3	5.8	147
53	Determination of dissolved oxygen based on photoinduced electron transfer from quantum dots to methyl viologen. *Analytical Methods*, **2010**, 2, 1056	3.2	13
52	Preparation of Bismuth Oxide Quantum Dots and their Photocatalytic Activity in a Homogeneous System. *ChemCatChem*, **2010**, 2, 1115-1121	5.2	29
51	Bi2S3 nanostructures: A new photocatalyst. *Nano Research*, **2010**, 3, 379-386	10	179
50	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		11
49	Controllable synthesis and optical properties of CdS/CdSe hetero-nanostructures with various dimensionalities. *Materials Chemistry and Physics*, **2010**, 121, 118-124	4.4	9
48	High Sensibility of Quantum Dots to Metal Ions Inspired by Hydroxyapatite Microbeads. *Chinese Journal of Chemistry*, **2010**, 28, 1005-1012	4.9	4
47	Quantum dots acting as energy acceptors with organic dyes as donors in solution. *ChemPhysChem*, **2010**, 11, 3167-71	3.2	21
46	DNAzyme self-assembled gold nanoparticles for determination of metal ions using fluorescence anisotropy assay. *Analytical Biochemistry*, **2010**, 401, 47-52	3.1	98
45	QDs-DNA nanosensor for the detection of hepatitis B virus DNA and the single-base mutants. *Biosensors and Bioelectronics*, **2010**, 25, 1934-40	11.8	127
44	Synthesis of Positively Charged Luminescent CdTe Nanocrystals in Aqueous Solution. *Journal of Dispersion Science and Technology*, **2009**, 30, 388-393	1.5	1
43	Design and synthesis of high-quality CdS/ZnSe type-II core/shell nanocrystals. *Journal of Nanoscience and Nanotechnology*, **2009**, 9, 5880-6	1.3	5
42	Preparation of highly luminescent CdTe/CdS core/shell quantum dots. *ChemPhysChem*, **2009**, 10, 680-5	3.2	73
41	Aqueous phase synthesis of biostabilizer capped CdS nanocrystals with bright emission. *Journal of Luminescence*, **2009**, 129, 536-540	3.8	40
40	Design and synthesis of highly luminescent near-infrared-emitting water-soluble CdTe/CdSe/ZnS core/shell/shell quantum dots. *Inorganic Chemistry*, **2009**, 48, 9723-31	5.1	137
39	Anti-fouling characteristics of surface-confined oligonucleotide strands bioconjugated on streptavidin platforms in the presence of nanomaterials. *Talanta*, **2009**, 78, 1102-6	6.2	9

38	Electrochemically Controlled Surface Plasmon Enhanced Fluorescence Response of Surface Immobilized CdZnSe Quantum Dots. *Journal of Physical Chemistry C*, **2009**, 113, 6003-6008	3.8	18
37	Depositing a ZnxCd1−xS Shell around CdSe Core Nanocrystals via a Noninjection Approach in Aqueous Media. *Journal of Physical Chemistry C*, **2009**, 113, 4301-4306	3.8	28
36	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	3.8	95
35	Ultrafast synthesis of highly luminescent green- to near infrared-emitting CdTe nanocrystals in aqueous phase. *Journal of Materials Chemistry*, **2008**, 18, 2807		182
34	One-pot synthesis of highly luminescent CdTe/CdS core/shell nanocrystals in aqueous phase. *Nanotechnology*, **2008**, 19, 135604	3.4	112
33	Synthesis of highly stable dihydrolipoic acid capped water-soluble CdTe nanocrystals. *Nanotechnology*, **2008**, 19, 235603	3.4	39
32	Controlling the Synthesis of CoO Nanocrystals with Various Morphologies. *Journal of Physical Chemistry C*, **2008**, 112, 5322-5327	3.8	65
31	Growth of anisotropic platinum nanostructures catalyzed by gold seed nanoparticles. *Nano Research*, **2008**, 1, 249-257	10	18
30	Functional quantum-dot/dendrimer nanotubes for sensitive detection of DNA hybridization. *Small*, **2008**, 4, 566-71	11	75
29	New strategy for band-gap tuning in semiconductor nanocrystals. *Research on Chemical Intermediates*, **2008**, 34, 287-298	2.8	7
28	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	3.8	10
27	Graded-Bandgap Quantum- Dot-Modified Nanotubes: A Sensitive Biosensor for Enhanced Detection of DNA Hybridization. *Advanced Materials*, **2007**, 19, 1933-1936	24	98
26	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	3.8	77
25	Alcoholysis route to monodisperse CoO nanotetrapods with tunable size. *Nanotechnology*, **2007**, 18, 195605	3.4	17
24	A facile route to violet- to orange-emitting CdxZn1−xSe alloy nanocrystals via cation exchange reaction. *Nanotechnology*, **2007**, 18, 385606	3.4	61
23	OPTICS WITH NANO-SIZED STRUCTURES MADE FROM SEMICONDUCTORS AND (NOBLE) METALS. *Journal of Nonlinear Optical Physics and Materials*, **2006**, 15, 355-367	0.8	1
22	Facile Synthesis of Morphology-Controlled Platinum Nanocrystals. *Chemistry of Materials*, **2006**, 18, 2468-2471	9.4	116
21	Synthesis of dumbbell-shaped manganese oxide nanocrystals. *Journal of Physical Chemistry B*, **2006**, 110, 2-4	3.4	62

20	Morphology-controlled large-scale synthesis of ZnO nanocrystals from bulk ZnO. *Chemical Communications*, **2005**, 1158-60	5.8	46
19	High-Quality Violet- to Red-Emitting ZnSe/CdSe Core/Shell Nanocrystals. *Chemistry of Materials*, **2005**, 17, 4038-4042	9.6	133
18	Aminolysis route to monodisperse titania nanorods with tunable aspect ratio. *Angewandte Chemie - International Edition*, **2005**, 44, 3466-70	16.4	205
17	Synthesis, Characterization, and Spectroscopy of Type-II Core/Shell Semiconductor Nanocrystals with ZnTe Cores. *Advanced Materials*, **2005**, 17, 2741-2745	24	157
16	Memory in quantum-dot photoluminescence blinking. *New Journal of Physics*, **2005**, 7, 197-197	2.9	52
15	Quantification of photoinduced and spontaneous quantum-dot luminescence blinking. *Physical Review B*, **2005**, 72,	3.3	48
14	NANOSCOPIC BUILDING BLOCKS FROM POLYMERS, METALS, AND SEMICONDUCTORS FOR HYBRID ARCHITECTURES. *Journal of Nonlinear Optical Physics and Materials*, **2004**, 13, 229-241	0.8	7
13	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	2.3	8
12	Crystallographic characterization of the intermediate in the synthesis of tetrazole from nitrile and azide in water. *Inorganic Chemistry Communication*, **2004**, 7, 492-494	3.1	19
11	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	3.4	104
10	Synthesis of high-quality CdS, ZnS, and ZnxCd1 □xS nanocrystals using metal salts and elemental sulfur. *Journal of Materials Chemistry*, **2004**, 14, 2790-2794		97
9	Composition-tunable Zn(x)Cd(1-x)Se nanocrystals with high luminescence and stability. *Journal of the American Chemical Society*, **2003**, 125, 8589-94	16.4	496
8	Synthesis, NMR and structural studies of cluster derivatives derived from reactions of 1,2,3-triphenyl-1,2,3-triphosphaindan with [Os3(CO)10(□H)2]. *Journal of Organometallic Chemistry*, **2003**, 665, 218-225	2.3	3
7	Alloyed Zn(x)Cd(1-x)S nanocrystals with highly narrow luminescence spectral width. *Journal of the American Chemical Society*, **2003**, 125, 13559-63	16.4	610
6	Strong optical limiting capability of a triosmium cluster bonded indium porphyrin complex [(TPP)InOs3(mu-H)2(CO)9(mu-eta2-C5H4N)]. *Chemical Communications*, **2003**, 1882-3	5.8	23
5	1,2,3,4-Tetraphenyl-1,2,3,4-tetraphospholane, a highly versatile cyclocarbaphosphine ligand: reactions with activated triosmium clusters and characterization of the products. *Inorganic Chemistry*, **2002**, 41, 3791-800	5.1	8
4	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	1	2
3	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		9

2	A new method of preparation of iron(II) porphyrin complexes. Isolation and characterization of amine complexes of ferrous porphyrin. *Polyhedron*, **1996**, 15, 2677-2679	2.7	2
1	Dual-Functional Quantum Dot Seeding Growth of High-Quality Air-Processed CsPbI2Br Film for Carbon-Based Perovskite Solar Cells. *Solar Rrl*,2100989	7.1	6