Xinhua Zhong

List of Publications by Citations

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	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
198	High-efficiency "green" quantum dot solar cells. *Journal of the American Chemical Society*, **2014**, 136, 9203-10	16.4	502
197	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
196	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
195	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
194	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
193	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
192	Highly efficient inverted type-I CdS/CdSe core/shell structure QD-sensitized solar cells. *ACS Nano*, **2012**, 6, 3982-91	16.7	281
191	Quantum dot-sensitized solar cells. *Chemical Society Reviews*, **2018**, 47, 7659-7702	58.5	243
190	Facile synthesis of ZnS-CuInS2-alloyed nanocrystals for a color-tunable fluorchrome and photocatalyst. *Inorganic Chemistry*, **2011**, 50, 4065-72	5.1	222
189	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
188	Aminolysis route to monodisperse titania nanorods with tunable aspect ratio. *Angewandte Chemie - International Edition*, **2005**, 44, 3466-70	16.4	205
187	Efficient CdSe quantum dot-sensitized solar cells prepared by a postsynthesis assembly approach. *Chemical Communications*, **2012**, 48, 11235-7	5.8	201
186	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
185	Ultrafast synthesis of highly luminescent green- to near infrared-emitting CdTe nanocrystals in aqueous phase. *Journal of Materials Chemistry*, **2008**, 18, 2807		182
184	Bi2S3 nanostructures: A new photocatalyst. *Nano Research*, **2010**, 3, 379-386	10	179
183	Color-Tunable Highly Bright Photoluminescence of Cadmium-Free Cu-Doped ZnInS Nanocrystals and Electroluminescence. *Chemistry of Materials*, **2014**, 26, 1204-1212	9.6	170

182	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
181	Synthesis, Characterization, and Spectroscopy of Type-II Core/Shell Semiconductor Nanocrystals with ZnTe Cores. *Advanced Materials*, **2005**, 17, 2741-2745	24	157
180	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
179	Highly selective detection of glutathione using a quantum-dot-based OFF-ON fluorescent probe. *Chemical Communications*, **2010**, 46, 2971-3	5.8	147
178	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
177	Bilayer PbS Quantum Dots for High-Performance Photodetectors. *Advanced Materials*, **2017**, 29, 1702055	24	133
176	High-Quality Violet- to Red-Emitting ZnSe/CdSe Core/Shell Nanocrystals. *Chemistry of Materials*, **2005**, 17, 4038-4042	9.6	133
175	Cosensitized Quantum Dot Solar Cells with Conversion Efficiency over 12. *Advanced Materials*, **2018**, 30, 1705746	24	128
174	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
173	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
172	Charge Recombination Control for High Efficiency Quantum Dot Sensitized Solar Cells. *Journal of Physical Chemistry Letters*, **2016**, 7, 406-17	6.4	123
171	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
170	Capping Ligand-Induced Self-Assembly for Quantum Dot Sensitized Solar Cells. *Journal of Physical Chemistry Letters*, **2015**, 6, 796-806	6.4	121
169	Facile Synthesis of Morphology-Controlled Platinum Nanocrystals. *Chemistry of Materials*, **2006**, 18, 2468-2471	9.6	116
168	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
167	One-pot synthesis of highly luminescent CdTe/CdS core/shell nanocrystals in aqueous phase. *Nanotechnology*, **2008**, 19, 135604	3.4	112
166	Mn doped quantum dot sensitized solar cells with power conversion efficiency exceeding 9%. *Journal of Materials Chemistry A*, **2016**, 4, 877-886	13	108
165	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

164	DNAzyme self-assembled gold nanoparticles for determination of metal ions using fluorescence anisotropy assay. *Analytical Biochemistry*, **2010**, 401, 47-52	3.1	98
163	Graded-Bandgap Quantum- Dot-Modified Nanotubes: A Sensitive Biosensor for Enhanced Detection of DNA Hybridization. *Advanced Materials*, **2007**, 19, 1933-1936	24	98
162	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
161	CuInSe2 and CuInSe2/ZnS based high efficiency "green" quantum dot sensitized solar cells. *Journal of Materials Chemistry A*, **2015**, 3, 1649-1655	13	96
160	Adenosine capped QDs based fluorescent sensor for detection of dopamine with high selectivity and sensitivity. *Analyst, The*, **2014**, 139, 93-8	5	96
159	Anti-aggregation of gold nanoparticle-based colorimetric sensor for glutathione with excellent selectivity and sensitivity. *Analyst, The*, **2011**, 136, 196-200	5	96
158	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
157	Hybrid Organic/PbS Quantum Dot Bilayer Photodetector with Low Dark Current and High Detectivity. *Advanced Functional Materials*, **2018**, 28, 1706690	15.6	93
156	Hg2+-mediated aggregation of gold nanoparticles for colorimetric screening of biothiols. *Analyst, The*, **2012**, 137, 924-31	5	91
155	Optimization of TiO2 photoanode films for highly efficient quantum dot-sensitized solar cells. *Journal of Materials Chemistry A*, **2014**, 2, 13033	13	89
154	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
153	Bifunctional multidentate ligand modified highly stable water-soluble quantum dots. *Inorganic Chemistry*, **2010**, 49, 3768-75	5.1	81
152	Facile synthesis of highly luminescent Mn-doped ZnS nanocrystals. *Inorganic Chemistry*, **2011**, 50, 10432-8	5.1	79
151	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
150	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
149	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
148	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
147	Functional quantum-dot/dendrimer nanotubes for sensitive detection of DNA hybridization. *Small*, **2008**, 4, 566-71	11	75

146	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
145	Highly selective and sensitive visualizable detection of Hg2+ based on anti-aggregation of gold nanoparticles. *Talanta*, **2011**, 84, 508-12	6.2	74
144	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
143	Preparation of highly luminescent CdTe/CdS core/shell quantum dots. *ChemPhysChem*, **2009**, 10, 680-5	3.2	73
142	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
141	Controlled synthesis of silver phosphate crystals with high photocatalytic activity and bacteriostatic activity. *CrystEngComm*, **2012**, 14, 8714	3.3	70
140	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
139	A strategy to boost the cell performance of CdSexTe1□ 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
138	Controlling the Synthesis of CoO Nanocrystals with Various Morphologies. *Journal of Physical Chemistry C*, **2008**, 112, 5322-5327	3.8	65
137	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
136	Direct Methylation of Amines with Carbon Dioxide and Molecular Hydrogen using Supported Gold Catalysts. *ChemSusChem*, **2015**, 8, 3489-96	8.3	63
135	Synthesis of dumbbell-shaped manganese oxide nanocrystals. *Journal of Physical Chemistry B*, **2006**, 110, 2-4	3.4	62
134	A facile route to violet- to orange-emitting CdxZn1□Se alloy nanocrystals via cation exchange reaction. *Nanotechnology*, **2007**, 18, 385606	3.4	61
133	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
132	Three-dimensional nanostructured electrodes for efficient quantum-dot-sensitized solar cells. *Nano Energy*, **2017**, 32, 130-156	17.1	56
131	Copper deficient Zn□Cu□InSe quantum dot sensitized solar cells for high efficiency. *Journal of Materials Chemistry A*, **2017**, 5, 21442-21451	13	55
130	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
129	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

128	Effects of Metal Oxyhydroxide Coatings on Photoanode in Quantum Dot Sensitized Solar Cells. *Chemistry of Materials*, **2016**, 28, 2323-2330	9.6	53
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	Distinguishing localized surface plasmon resonance and Schottky junction of Au-Cu□O composites by their molecular spacer dependence. *ACS Applied Materials & Interfaces*, **2014**, 6, 10958-62	9.5	53
125	Memory in quantum-dot photoluminescence blinking. *New Journal of Physics*, **2005**, 7, 197-197	2.9	52
124	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
123	Quantification of photoinduced and spontaneous quantum-dot luminescence blinking. *Physical Review B*, **2005**, 72,	3.3	48
122	Influence of preferred orientation on the electrical conductivity of fluorine-doped tin oxide films. *Scientific Reports*, **2014**, 4, 3679	4.9	47
121	Highly bright water-soluble silica coated quantum dots with excellent stability. *Journal of Materials Chemistry B*, **2014**, 2, 5043-5051	7.3	47
120	Recent advances in electrolytes for quantum dot-sensitized solar cells. *Journal of Materials Chemistry A*, **2018**, 6, 4895-4911	13	46
119	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
118	Synthesis of highly luminescent Mn:ZnSe/ZnS nanocrystals in aqueous media. *Nanotechnology*, **2010** , 21, 305604	3.4	46
117	Morphology-controlled large-scale synthesis of ZnO nanocrystals from bulk ZnO. *Chemical Communications*, **2005**, 1158-60	5.8	46
116	Performance enhancement of quantum dot sensitized solar cells by adding electrolyte additives. *Journal of Materials Chemistry A*, **2015**, 3, 17091-17097	13	45
115	Quantum dots-based ratiometric fluorescence probe for mercuric ions in biological fluids. *Talanta*, **2014**, 119, 564-71	6.2	44
114	Graphene hydrogel-based counter electrode for high efficiency quantum dot-sensitized solar cells. *Journal of Materials Chemistry A*, **2017**, 5, 1614-1622	13	43
113	Mitochondrial injury induced by nanosized titanium dioxide in A549 cells and rats. *Environmental Toxicology and Pharmacology*, **2013**, 36, 66-72	5.8	43
112	Single-crystal Bi2S3 nanosheets growing via attachment-recrystallization of nanorods. *Inorganic Chemistry*, **2011**, 50, 7729-34	5.1	43
111	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

110	All-Inorganic CsPbI3 Quantum Dot Solar Cells with Efficiency over 16% by Defect Control. *Advanced Functional Materials*, **2021**, 31, 2005930	15.6	42
109	Aqueous phase synthesis of biostabilizer capped CdS nanocrystals with bright emission. *Journal of Luminescence*, **2009**, 129, 536-540	3.8	40
108	Synthesis of highly stable dihydrolipoic acid capped water-soluble CdTe nanocrystals. *Nanotechnology*, **2008**, 19, 235603	3.4	39
107	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
106	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
105	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
104	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
103	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
102	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
101	Highly sensitive detection of DNA methylation levels by using a quantum dot-based FRET method. *Nanoscale*, **2015**, 7, 17547-55	7.7	34
100	Metalorganic 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
99	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
98	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
97	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
96	Modified Graphitic Carbon Nitride Nanosheets for Efficient Photocatalytic Hydrogen Evolution. *ChemSusChem*, **2019**, 12, 4996-5006	8.3	33
95	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
94	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
93	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

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91	TiO2 Nanocrystal/Perovskite Bilayer for High-Performance Photodetectors. *Advanced Electronic Materials*, **2017**, 3, 1700251	6.4	29
90	Preparation of Bismuth Oxide Quantum Dots and their Photocatalytic Activity in a Homogeneous System. *ChemCatChem*, **2010**, 2, 1115-1121	5.2	29
89	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
88	A general and reversible phase transfer strategy enabling nucleotides modified high-quality water-soluble nanocrystals. *Chemical Communications*, **2012**, 48, 5718-20	5.8	28
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86	Direct methylation of N-methylaniline with CO2/H2 catalyzed by gold nanoparticles supported on alumina. *RSC Advances*, **2015**, 5, 99678-99687	3.7	27
85	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, 16500-16506	3.8	26
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83	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
82	Nanostructure and charge transfer in Bi2S3-TiO2 heterostructures. *Nanotechnology*, **2014**, 25, 215702	3.4	24
81	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
80	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
79	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
78	ZnSSe Alloy Passivation Layer for High-Efficiency Quantum-Dot-Sensitized Solar Cells. *ACS Applied Materials & Interfaces*, **2019**, 11, 41415-41423	9.5	22
77	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
76	Inorganic Ligand Thiosulfate-Capped Quantum Dots for Efficient Quantum Dot Sensitized Solar Cells. *ACS Applied Materials & Interfaces*, **2017**, 9, 18936-18944	9.5	21
75	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

74	Quantum dots acting as energy acceptors with organic dyes as donors in solution. *ChemPhysChem*, **2010**, 11, 3167-71	3.2	21
73	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
72	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
71	Coupling CsPbBr Quantum Dots with Covalent Triazine Frameworks for Visible-Light-Driven CO Reduction. *ChemSusChem*, **2021**, 14, 1131-1139	8.3	20
70	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
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68	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
67	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
66	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
65	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
64	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
63	Dimensionality-dependent performance of nanostructured bismuth sulfide in photodegradation of organic dyes. *Materials Chemistry and Physics*, **2013**, 138, 755-761	4.4	18
62	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
61	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
60	Growth of anisotropic platinum nanostructures catalyzed by gold seed nanoparticles. *Nano Research*, **2008**, 1, 249-257	10	18
59	Alcoholysis route to monodisperse CoO nanotetrapods with tunable size. *Nanotechnology*, **2007**, 18, 195605	3.4	17
58	Noninjection facile synthesis of Gram-scale highly luminescent CdSe multipod nanocrystals. *Inorganic Chemistry*, **2012**, 51, 531-5	5.1	16
57	Nanostructuring polymeric materials by templating strategies. *Small*, **2011**, 7, 1384-91	11	16

56	A novel metal–organic framework with bifunctional tetrazolate-5-carboxylate ligand: Crystal structure and luminescent properties. *Inorganic Chemistry Communication*, **2011**, 14, 407-410	3.1	16
55	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
54	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
53	Dip-coated colloidal quantum-dot films for high-performance broadband photodetectors. *Journal of Materials Chemistry C*, **2019**, 7, 6266-6272	7.1	14
52	Perovskite-Compatible Carbon Electrode Improving the Efficiency and Stability of CsPbI2Br Solar Cells. *Solar Rrl*, **2020**, 4, 2000431	7.1	14
51	Determination of dissolved oxygen based on photoinduced electron transfer from quantum dots to methyl viologen. *Analytical Methods*, **2010**, 2, 1056	3.2	13
50	Colloidal Inorganic Ligand-Capped Nanocrystals: Fundamentals, Status, and Insights into Advanced Functional Nanodevices.. *Chemical Reviews*, **2021**,	68.1	13
49	Enhancing Electron and Hole Extractions for Efficient PbS Quantum Dot Solar Cells. *Solar Rrl*, **2017**, 1, 1700176	7.1	12
48	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
47	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
46	Selenium cooperated polysulfide electrolyte for efficiency enhancement of quantum dot-sensitized solar cells. *Journal of Energy Chemistry*, **2019**, 38, 147-152	12	12
45	Silica coating of luminescent quantum dots prepared in aqueous media for cellular labeling. *Materials Research Bulletin*, **2014**, 60, 543-551	5.1	11
44	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
43	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
42	Antioxidative Stannous Oxalate Derived Lead-Free Stable CsSnX3 (X=Cl, Br, and I) Perovskite Nanocrystals. *Angewandte Chemie*, **2021**, 133, 670-675	3.6	10
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37	Controllable synthesis and optical properties of CdS/CdSe hetero-nanostructures with various dimensionalities. *Materials Chemistry and Physics*, **2010**, 121, 118-124	4.4	9
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