

# Xinhua Zhong

## List of Publications by Year in descending order

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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  | Alloyed ZnxCd1-xS Nanocrystals with Highly Narrow Luminescence Spectral Width. <i>Journal of the American Chemical Society</i> , 2003, 125, 13559-13563.   | 6.6  | 657       |
| 2  | High-Efficiency "Green" Quantum Dot Solar Cells. <i>Journal of the American Chemical Society</i> , 2014, 136, 9203-9210.   | 6.6  | 547       |
| 3  | Zn-Cu-In-Se Quantum Dot Solar Cells with a Certified Power Conversion Efficiency of 11.6%. <i>Journal of the American Chemical Society</i> , 2016, 138, 4201-4209.   | 6.6  | 537       |
| 4  | Composition-Tunable ZnxCd1-xSe Nanocrystals with High Luminescence and Stability. <i>Journal of the American Chemical Society</i> , 2003, 125, 8589-8594.  | 6.6  | 534       |
| 5  | Core/Shell Colloidal Quantum Dot Exciplex States for the Development of Highly Efficient Quantum-Dot-Sensitized Solar Cells. <i>Journal of the American Chemical Society</i> , 2013, 135, 15913-15922.     | 6.6  | 400       |
| 6  | Near Infrared Absorption of CdSe <sub>1-x</sub> Te <sub>x</sub> Alloyed Quantum Dot Sensitized Solar Cells with More than 6% Efficiency and High Stability. <i>ACS Nano</i> , 2013, 7, 5215-5222.          | 7.3  | 374       |
| 7  | Boosting Power Conversion Efficiencies of Quantum-Dot-Sensitized Solar Cells Beyond 8% by Recombination Control. <i>Journal of the American Chemical Society</i> , 2015, 137, 5602-5609.                   | 6.6  | 367       |
| 8  | Quantum dot-sensitized solar cells. <i>Chemical Society Reviews</i> , 2018, 47, 7659-7702.   | 18.7 | 344       |
| 9  | Highly Efficient Inverted Type-I CdS/CdSe Core/Shell Structure QD-Sensitized Solar Cells. <i>ACS Nano</i> , 2012, 6, 3982-3991.  | 7.3  | 307       |
| 10 | Band Engineering in Core/Shell ZnTe/CdSe for Photovoltage and Efficiency Enhancement in Exciplex Quantum Dot Sensitized Solar Cells. <i>ACS Nano</i> , 2015, 9, 908-915.                                   | 7.3  | 241       |
| 11 | Facile Synthesis of ZnS <sup>2+</sup> CuInS <sub>2</sub> -Alloyed Nanocrystals for a Color-Tunable Fluorochrome and Photocatalyst. <i>Inorganic Chemistry</i> , 2011, 50, 4065-4072.                       | 1.9  | 231       |
| 12 | Efficient CdSe quantum dot-sensitized solar cells prepared by a postsynthesis assembly approach. <i>Chemical Communications</i> , 2012, 48, 11235.   | 2.2  | 231       |
| 13 | Aminolysis Route to Monodisperse Titania Nanorods with Tunable Aspect Ratio. <i>Angewandte Chemie - International Edition</i> , 2005, 44, 3466-3470.   | 7.2  | 219       |
| 14 | Bi <sub>2</sub> S <sub>3</sub> nanostructures: A new photocatalyst. <i>Nano Research</i> , 2010, 3, 379-386.   | 5.8  | 209       |
| 15 | Amorphous TiO <sub>2</sub> Buffer Layer Boosts Efficiency of Quantum Dot Sensitized Solar Cells to over 9%. <i>Chemistry of Materials</i> , 2015, 27, 8398-8405.   | 3.2  | 197       |
| 16 | Ultrafast synthesis of highly luminescent green- to near infrared-emitting CdTe nanocrystals in aqueous phase. <i>Journal of Materials Chemistry</i> , 2008, 18, 2807.                                     | 6.7  | 196       |
| 17 | Nitrogen-Doped Mesoporous Carbons as Counter Electrodes in Quantum Dot Sensitized Solar Cells with a Conversion Efficiency Exceeding 12%. <i>Journal of Physical Chemistry Letters</i> , 2017, 8, 559-564. | 2.1  | 193       |
| 18 | Color-Tunable Highly Bright Photoluminescence of Cadmium-Free Cu-Doped Zn-In-S Nanocrystals and Electroluminescence. <i>Chemistry of Materials</i> , 2014, 26, 1204-1212.                                  | 3.2  | 190       |

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|----|--|------|-----------|
| 19 | Bilayer PbS Quantum Dots for High-Performance Photodetectors. <i>Advanced Materials</i> , 2017, 29, 1702055.   | 11.1 | 189       |
| 20 | Synthesis, Characterization, and Spectroscopy of Type-II Core/Shell Semiconductor Nanocrystals with ZnTe Cores. <i>Advanced Materials</i> , 2005, 17, 2741-2745.                                       | 11.1 | 176       |
| 21 | Carbon Counter-Electrode-Based Quantum-Dot-Sensitized Solar Cells with Certified Efficiency Exceeding 11%. <i>Journal of Physical Chemistry Letters</i> , 2016, 7, 3103-3111.                          | 2.1  | 169       |
| 22 | Highly selective detection of glutathione using a quantum-dot-based OFF-ON fluorescent probe. <i>Chemical Communications</i> , 2010, 46, 2971.   | 2.2  | 159       |
| 23 | High-Quality Violet- to Red-Emitting ZnSe/CdSe Core/Shell Nanocrystals. <i>Chemistry of Materials</i> , 2005, 17, 4038-4042.   | 3.2  | 150       |
| 24 | Cosensitized Quantum Dot Solar Cells with Conversion Efficiency over 12%. <i>Advanced Materials</i> , 2018, 30, 1705746.   | 11.1 | 148       |
| 25 | Design and Synthesis of Highly Luminescent Near-Infrared-Emitting Water-Soluble CdTe/CdSe/ZnS Core/Shell/Shell Quantum Dots. <i>Inorganic Chemistry</i> , 2009, 48, 9723-9731.                         | 1.9  | 147       |
| 26 | Hybrid Organic/PbS Quantum Dot Bilayer Photodetector with Low Dark Current and High Detectivity. <i>Advanced Functional Materials</i> , 2018, 28, 1706690.   | 7.8  | 143       |
| 27 | Charge Recombination Control for High Efficiency Quantum Dot Sensitized Solar Cells. <i>Journal of Physical Chemistry Letters</i> , 2016, 7, 406-417.  | 2.1  | 140       |
| 28 | Quantum dot-based "turn-on" fluorescent probe for detection of zinc and cadmium ions in aqueous media. <i>Analytica Chimica Acta</i> , 2011, 687, 82-88.   | 2.6  | 138       |
| 29 | Capping Ligand-Induced Self-Assembly for Quantum Dot Sensitized Solar Cells. <i>Journal of Physical Chemistry Letters</i> , 2015, 6, 796-806.  | 2.1  | 138       |
| 30 | QDs-DNA nanosensor for the detection of hepatitis B virus DNA and the single-base mutants. <i>Biosensors and Bioelectronics</i> , 2010, 25, 1934-1940.   | 5.3  | 133       |
| 31 | CdSeTe/CdS Type-I Core/Shell Quantum Dot Sensitized Solar Cells with Efficiency over 9%. <i>Journal of Physical Chemistry C</i> , 2015, 119, 28800-28808.  | 1.5  | 131       |
| 32 | Electroplating Cuprous Sulfide Counter Electrode for High-Efficiency Long-Term Stability Quantum Dot Sensitized Solar Cells. <i>Journal of Physical Chemistry C</i> , 2014, 118, 5683-5690.            | 1.5  | 130       |
| 33 | Mn doped quantum dot sensitized solar cells with power conversion efficiency exceeding 9%. <i>Journal of Materials Chemistry A</i> , 2016, 4, 877-886.   | 5.2  | 122       |
| 34 | One-pot synthesis of highly luminescent CdTe/CdS core/shell nanocrystals in aqueous phase. <i>Nanotechnology</i> , 2008, 19, 135604.   | 1.3  | 121       |
| 35 | Facile Synthesis of Morphology-Controlled Platinum Nanocrystals. <i>Chemistry of Materials</i> , 2006, 18, 2468-2471.  | 3.2  | 119       |
| 36 | One-step solution deposition of CsPbBr <sub>3</sub> based on precursor engineering for efficient all-inorganic perovskite solar cells. <i>Journal of Materials Chemistry A</i> , 2019, 7, 22420-22428. | 5.2  | 116       |

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|----|---|------|-----------|
| 37 | Improving the Efficiency of Quantum Dot Sensitized Solar Cells beyond 15% via Secondary Deposition. <i>Journal of the American Chemical Society</i> , 2021, 143, 4790-4800.   | 6.6  | 112       |
| 38 | <i>In Situ</i> Photodeposited Construction of Pt@CdS/g-C <sub>3</sub> N <sub>4</sub> @MnO <sub>x</sub> Composite Photocatalyst for Efficient Visible-Light-Driven Overall Water Splitting. <i>ACS Applied Materials &amp; Interfaces</i> , 2020, 12, 20579-20588. | 4.0  | 111       |
| 39 | Graded-Bandgap Quantum-Dot-Modified Nanotubes: A Sensitive Biosensor for Enhanced Detection of DNA Hybridization. <i>Advanced Materials</i> , 2007, 19, 1933-1936.  | 11.1 | 109       |
| 40 | Anti-aggregation of gold nanoparticle-based colorimetric sensor for glutathione with excellent selectivity and sensitivity. <i>Analyst</i> , 2011, 136, 196-200.  | 1.7  | 109       |
| 41 | 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. <i>Journal of Physical Chemistry B</i> , 2004, 108, 15552-15559. | 1.2  | 108       |
| 42 | Adenosine capped QDs based fluorescent sensor for detection of dopamine with high selectivity and sensitivity. <i>Analyst</i> , 2014, 139, 93-98.   | 1.7  | 108       |
| 43 | CuInSe <sub>2</sub> and CuInSe <sub>2</sub> @ZnS based high efficiency "green" quantum dot sensitized solar cells. <i>Journal of Materials Chemistry A</i> , 2015, 3, 1649-1655.  | 5.2  | 108       |
| 44 | DNAzyme self-assembled gold nanoparticles for determination of metal ions using fluorescence anisotropy assay. <i>Analytical Biochemistry</i> , 2010, 401, 47-52.   | 1.1  | 107       |
| 45 | Synthesis of high-quality CdS, ZnS, and ZnxCd1-xS nanocrystals using metal salts and elemental sulfur. <i>Journal of Materials Chemistry</i> , 2004, 14, 2790-2794.   | 6.7  | 105       |
| 46 | Hg <sup>2+</sup> -mediated aggregation of gold nanoparticles for colorimetric screening of biothiols. <i>Analyst</i> , 2012, 137, 924-931.  | 1.7  | 101       |
| 47 | Surface engineering of PbS quantum dot sensitized solar cells with a conversion efficiency exceeding 7%. <i>Journal of Materials Chemistry A</i> , 2016, 4, 7214-7221.  | 5.2  | 101       |
| 48 | All-inorganic CsPbI <sub>3</sub> Quantum Dot Solar Cells with Efficiency over 16% by Defect Control. <i>Advanced Functional Materials</i> , 2021, 31, 2005930.  | 7.8  | 101       |
| 49 | Facile Synthesis of Highly Luminescent UV-Blue-Emitting ZnSe/ZnS Core/Shell Nanocrystals in Aqueous Media. <i>Journal of Physical Chemistry C</i> , 2009, 113, 14145-14150.   | 1.5  | 99        |
| 50 | Optimization of TiO <sub>2</sub> photoanode films for highly efficient quantum dot-sensitized solar cells. <i>Journal of Materials Chemistry A</i> , 2014, 2, 13033.  | 5.2  | 98        |
| 51 | Bifunctional Multidentate Ligand Modified Highly Stable Water-Soluble Quantum Dots. <i>Inorganic Chemistry</i> , 2010, 49, 3768-3775.   | 1.9  | 95        |
| 52 | Facile Synthesis of Highly Luminescent Mn-Doped ZnS Nanocrystals. <i>Inorganic Chemistry</i> , 2011, 50, 10432-10438.   | 1.9  | 89        |
| 53 | Modification of Energy Level Alignment for Boosting Carbon-Based CsPbI <sub>2</sub> Br Solar Cells with 14% Certified Efficiency. <i>Advanced Functional Materials</i> , 2021, 31, 2011187.   | 7.8  | 89        |
| 54 | One-step synthesis of water-soluble AgInS <sub>2</sub> and ZnS@AgInS <sub>2</sub> composite nanocrystals and their photocatalytic activities. <i>Journal of Colloid and Interface Science</i> , 2012, 377, 27-33.   | 5.0  | 87        |

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|----|--|-----|-----------|
| 55 | Alloying Strategy in Cu <sup>2+</sup> In <sup>3+</sup> Ga <sup>3+</sup> Se Quantum Dots for High Efficiency Quantum Dot Sensitized Solar Cells. ACS Applied Materials & Interfaces, 2017, 9, 5328-5336.                                | 4.0 | 87        |
| 56 | Dual Emissive Manganese and Copper Co-Doped Zn <sup>2+</sup> In <sup>3+</sup> 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        |
| 57 | Boosting the Open Circuit Voltage and Fill Factor of QDSSCs Using Hierarchically Assembled ITO@Cu <sub>2</sub> S Nanowire Array Counter Electrodes. Nano Letters, 2015, 15, 3088-3095.   | 4.5 | 86        |
| 58 | 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        |
| 59 | Preparation of Highly Luminescent CdTe/CdS Core/Shell Quantum Dots. ChemPhysChem, 2009, 10, 680-685.   | 1.0 | 84        |
| 60 | 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        |
| 61 | Highly selective and sensitive visualizable detection of Hg <sup>2+</sup> based on anti-aggregation of gold nanoparticles. Talanta, 2011, 84, 508-512.   | 2.9 | 81        |
| 62 | Functional Quantum Dot/Dendrimer Nanotubes for Sensitive Detection of DNA Hybridization. Small, 2008, 4, 566-571.  | 5.2 | 80        |
| 63 | Direct Methylation of Amines with Carbon Dioxide and Molecular Hydrogen using Supported Gold Catalysts. ChemSusChem, 2015, 8, 3489-3496.   | 3.6 | 80        |
| 64 | One-Pot Noninjection Synthesis of Cu-Doped Zn <sub>x</sub> Cd <sub>1-x</sub> S Nanocrystals with Emission Color Tunable over Entire Visible Spectrum. Inorganic Chemistry, 2012, 51, 3579-3587.  | 1.9 | 76        |
| 65 | Controlled synthesis of silver phosphate crystals with high photocatalytic activity and bacteriostatic activity. CrystEngComm, 2012, 14, 8714.   | 1.3 | 75        |
| 66 | Three-dimensional nanostructured electrodes for efficient quantum-dot-sensitized solar cells. Nano Energy, 2017, 32, 130-156.  | 8.2 | 73        |
| 67 | Copper deficient Zn <sup>2+</sup> Cu <sup>2+</sup> In <sup>3+</sup> Se quantum dot sensitized solar cells for high efficiency. Journal of Materials Chemistry A, 2017, 5, 21442-21451.   | 5.2 | 73        |
| 68 | 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        |
| 69 | 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        |
| 70 | A strategy to boost the cell performance of Cd <sub>0.9</sub> Te <sub>0.1</sub> 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        |
| 71 | Zn <sub>0.9</sub> Cu <sub>0.1</sub> In <sub>0.5</sub> Se Quinary Alloyed Quantum Dot Sensitized Solar Cells with a Certified Efficiency of 14.4%. Angewandte Chemie - International Edition, 2021, 60, 6137-6144.                      | 7.2 | 72        |
| 72 | Synthesis of Dumbbell-Shaped Manganese Oxide Nanocrystals. Journal of Physical Chemistry B, 2006, 110, 2-4.  | 1.2 | 68        |

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|----|--|------|-----------|
| 73 | A facile route to violet- to orange-emitting Cd <sub>x</sub> Zn <sub>1-x</sub> Se alloy nanocrystals via cation exchange reaction. <i>Nanotechnology</i> , 2007, 18, 385606.   | 1.3  | 68        |
| 74 | Controlling the Synthesis of CoO Nanocrystals with Various Morphologies. <i>Journal of Physical Chemistry C</i> , 2008, 112, 5322-5327.  | 1.5  | 68        |
| 75 | Highly efficient, stable and reproducible CdSe-sensitized solar cells using copper sulfide as counter electrodes. <i>Journal of Materials Chemistry A</i> , 2015, 3, 6557-6564.  | 5.2  | 64        |
| 76 | Distinguishing Localized Surface Plasmon Resonance and Schottky Junction of Au@Cu <sub>2</sub> O Composites by Their Molecular Spacer Dependence. <i>ACS Applied Materials &amp; Interfaces</i> , 2014, 6, 10958-10962.        | 4.0  | 63        |
| 77 | Effects of Metal Oxyhydroxide Coatings on Photoanode in Quantum Dot Sensitized Solar Cells. <i>Chemistry of Materials</i> , 2016, 28, 2323-2330.   | 3.2  | 63        |
| 78 | Scalable Single-Step Noninjection Synthesis of High-Quality Core/Shell Quantum Dots with Emission Tunable from Violet to Near Infrared. <i>ACS Nano</i> , 2012, 6, 11066-11073.  | 7.3  | 61        |
| 79 | Recent advances in electrolytes for quantum dot-sensitized solar cells. <i>Journal of Materials Chemistry A</i> , 2018, 6, 4895-4911.  | 5.2  | 61        |
| 80 | Quantum dot materials engineering boosting the quantum dot sensitized solar cell efficiency over 13%. <i>Journal of Materials Chemistry A</i> , 2020, 8, 10233-10241.  | 5.2  | 61        |
| 81 | Highly efficient and stable quasi-solid-state quantum dot-sensitized solar cells based on a superabsorbent polyelectrolyte. <i>Journal of Materials Chemistry A</i> , 2016, 4, 1461-1468.                                      | 5.2  | 60        |
| 82 | Enhancing Adsorption and Reaction Kinetics of Polysulfides Using CoP-Coated N-Doped Mesoporous Carbon for High-Energy-Density Lithium-Sulfur Batteries. <i>ACS Applied Materials &amp; Interfaces</i> , 2020, 12, 43844-43853. | 4.0  | 60        |
| 83 | Memory in quantum-dot photoluminescence blinking. <i>New Journal of Physics</i> , 2005, 7, 197-197.  | 1.2  | 55        |
| 84 | Highly bright water-soluble silica coated quantum dots with excellent stability. <i>Journal of Materials Chemistry B</i> , 2014, 2, 5043-5051.   | 2.9  | 55        |
| 85 | Antioxidative Stannous Oxalate Derived Lead-Free Stable CsSnX <sub>3</sub> (X=Cl, Br, and I) Perovskite Nanocrystals. <i>Angewandte Chemie - International Edition</i> , 2021, 60, 660-665.                                    | 7.2  | 55        |
| 86 | Influence of Preferred Orientation on the Electrical Conductivity of Fluorine-Doped Tin Oxide Films. <i>Scientific Reports</i> , 2014, 4, 3679.  | 1.6  | 54        |
| 87 | Influence of linker molecules on interfacial electron transfer and photovoltaic performance of quantum dot sensitized solar cells. <i>Journal of Materials Chemistry A</i> , 2014, 2, 20882-20888.                             | 5.2  | 52        |
| 88 | Comparative advantages of Zn@Cu@InS alloy QDs in the construction of quantum dot-sensitized solar cells. <i>RSC Advances</i> , 2018, 8, 3637-3645.   | 1.7  | 52        |
| 89 | Coupling CsPbBr <sub>3</sub> Quantum Dots with Covalent Triazine Frameworks for Visible-Light-Driven CO <sub>2</sub> Reduction. <i>ChemSusChem</i> , 2021, 14, 1131-1139.  | 3.6  | 52        |
| 90 | Colloidal Inorganic Ligand-Capped Nanocrystals: Fundamentals, Status, and Insights into Advanced Functional Nanodevices. <i>Chemical Reviews</i> , 2022, 122, 4091-4162.   | 23.0 | 52        |

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|-----|---|------|-----------|
| 91  | Morphology-controlled large-scale synthesis of ZnO nanocrystals from bulk ZnO. <i>Chemical Communications</i> , 2005, , 1158.   | 2.2  | 51        |
| 92  | Boosting the Performance of Environmentally Friendly Quantum Dot-Sensitized Solar Cells over 13% Efficiency by Dual Sensitizers with Cascade Energy Structure. <i>Advanced Materials</i> , 2019, 31, e1903696.      | 11.1 | 51        |
| 93  | Quantification of photoinduced and spontaneous quantum-dot luminescence blinking. <i>Physical Review B</i> , 2005, 72, .  | 1.1  | 50        |
| 94  | Single-Crystal Bi <sub>2</sub> S <sub>3</sub> Nanosheets Growing via Attachment-Recrystallization of Nanorods. <i>Inorganic Chemistry</i> , 2011, 50, 7729-7734.  | 1.9  | 50        |
| 95  | Performance enhancement of quantum dot sensitized solar cells by adding electrolyte additives. <i>Journal of Materials Chemistry A</i> , 2015, 3, 17091-17097.  | 5.2  | 49        |
| 96  | Poly(vinyl pyrrolidone): a superior and general additive in polysulfide electrolytes for high efficiency quantum dot sensitized solar cells. <i>Journal of Materials Chemistry A</i> , 2016, 4, 11416-11421.        | 5.2  | 49        |
| 97  | Graphene hydrogel-based counter electrode for high efficiency quantum dot-sensitized solar cells. <i>Journal of Materials Chemistry A</i> , 2017, 5, 1614-1622.   | 5.2  | 49        |
| 98  | Mitochondrial injury induced by nanosized titanium dioxide in A549 cells and rats. <i>Environmental Toxicology and Pharmacology</i> , 2013, 36, 66-72.  | 2.0  | 48        |
| 99  | Synthesis of highly luminescent Mn:ZnSe/ZnS nanocrystals in aqueous media. <i>Nanotechnology</i> , 2010, 21, 305604.  | 1.3  | 47        |
| 100 | Quantum dots-based ratiometric fluorescence probe for mercuric ions in biological fluids. <i>Talanta</i> , 2014, 119, 564-571.  | 2.9  | 47        |
| 101 | Quasi-solid-state quantum dot sensitized solar cells with power conversion efficiency over 9% and high stability. <i>Journal of Materials Chemistry A</i> , 2016, 4, 14849-14856.                                   | 5.2  | 47        |
| 102 | Synthesis of highly stable dihydrolipoic acid capped water-soluble CdTe nanocrystals. <i>Nanotechnology</i> , 2008, 19, 235603.   | 1.3  | 45        |
| 103 | FeNi intermetallic compound nanoparticles wrapped with N-doped graphitized carbon: a novel cocatalyst for boosting photocatalytic hydrogen evolution. <i>Journal of Materials Chemistry A</i> , 2020, 8, 3481-3490. | 5.2  | 45        |
| 104 | Modified Graphitic Carbon Nitride Nanosheets for Efficient Photocatalytic Hydrogen Evolution. <i>ChemSusChem</i> , 2019, 12, 4996-5006.   | 3.6  | 43        |
| 105 | Aqueous phase synthesis of biostabilizer capped CdS nanocrystals with bright emission. <i>Journal of Luminescence</i> , 2009, 129, 536-540.   | 1.5  | 42        |
| 106 | Metal-organic framework derived Co,N-bidoped carbons as superior electrode catalysts for quantum dot sensitized solar cells. <i>Journal of Materials Chemistry A</i> , 2018, 6, 2129-2138.                          | 5.2  | 41        |
| 107 | Size- and Composition-Dependent Energy Transfer from Charge Transporting Materials to ZnCuInS Quantum Dots. <i>Journal of Physical Chemistry C</i> , 2012, 116, 11973-11979.  | 1.5  | 39        |
| 108 | High Efficiency Quantum Dot Sensitized Solar Cells Based on Direct Adsorption of Quantum Dots on Photoanodes. <i>ACS Applied Materials &amp; Interfaces</i> , 2017, 9, 22549-22559.                                 | 4.0  | 39        |



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|-----|--|-----|-----------|
| 109 | TiO <sub>2</sub> Nanocrystal/Perovskite Bilayer for High-Performance Photodetectors. <i>Advanced Electronic Materials</i> , 2017, 3, 1700251.  | 2.6 | 39        |
| 110 | Facile synthesis of red- to near-infrared-emitting CdTeSe <sub>1-x</sub> alloyed quantum dots via a noninjection one-pot route. <i>Journal of Luminescence</i> , 2011, 131, 322-327.   | 1.5 | 38        |
| 111 | Highly sensitive detection of DNA methylation levels by using a quantum dot-based FRET method. <i>Nanoscale</i> , 2015, 7, 17547-17555.  | 2.8 | 37        |
| 112 | FeCo alloy@N-doped graphitized carbon as an efficient cocatalyst for enhanced photocatalytic H <sub>2</sub> evolution by inducing accelerated charge transfer. <i>Journal of Energy Chemistry</i> , 2021, 52, 92-101.          | 7.1 | 37        |
| 113 | Topotactically Grown Bismuth Sulfide Network Film on Substrate as Low-Cost Counter Electrodes for Quantum Dot-Sensitized Solar Cells. <i>Journal of Physical Chemistry C</i> , 2014, 118, 16602-16610.                         | 1.5 | 35        |
| 114 | A quantum dot-based "on-off" fluorescent probe for biological detection of zinc ions. <i>Analyst</i> , 2013, 138, 2181.  | 1.7 | 34        |
| 115 | Bifunctional TiS <sub>2</sub> /CNT as efficient polysulfide barrier to improve the performance of lithium-sulfur battery. <i>Journal of Alloys and Compounds</i> , 2020, 832, 154947.  | 2.8 | 34        |
| 116 | Nanostructure and charge transfer in Bi <sub>2</sub> S <sub>3</sub> -TiO <sub>2</sub> heterostructures. <i>Nanotechnology</i> , 2014, 25, 215702.  | 1.3 | 32        |
| 117 | A panel of promoter methylation markers for invasive and noninvasive early detection of NSCLC using a quantum dots-based FRET approach. <i>Biosensors and Bioelectronics</i> , 2016, 85, 641-648.                              | 5.3 | 32        |
| 118 | Preparation of Bismuth Oxide Quantum Dots and their Photocatalytic Activity in a Homogeneous System. <i>ChemCatChem</i> , 2010, 2, 1115-1121.  | 1.8 | 31        |
| 119 | Direct methylation of N-methylaniline with CO <sub>2</sub> /H <sub>2</sub> catalyzed by gold nanoparticles supported on alumina. <i>RSC Advances</i> , 2015, 5, 99678-99687.   | 1.7 | 31        |
| 120 | Cs <sub>2</sub> SnI <sub>6</sub> nanocrystals enhancing hole extraction for efficient carbon-based CsPbI <sub>2</sub> Br perovskite solar cells. <i>Chemical Engineering Journal</i> , 2022, 440, 135710.                      | 6.6 | 31        |
| 121 | Depositing a Zn <sub>x</sub> Cd <sub>1-x</sub> S Shell around CdSe Core Nanocrystals via a Noninjection Approach in Aqueous Media. <i>Journal of Physical Chemistry C</i> , 2009, 113, 4301-4306.                              | 1.5 | 30        |
| 122 | A general and reversible phase transfer strategy enabling nucleotides modified high-quality water-soluble nanocrystals. <i>Chemical Communications</i> , 2012, 48, 5718.   | 2.2 | 30        |
| 123 | Morphology control of fluorine-doped tin oxide thin films for enhanced light trapping. <i>Solar Energy Materials and Solar Cells</i> , 2015, 132, 578-588.   | 3.0 | 30        |
| 124 | Perovskite-Compatible Carbon Electrode Improving the Efficiency and Stability of CsPbI <sub>2</sub> Br Solar Cells. <i>Solar Rrl</i> , 2020, 4, 2000431.   | 3.1 | 30        |
| 125 | ZnS <sub>x</sub> Se <sub>1-x</sub> Alloy Passivation Layer for High-Efficiency Quantum-Dot-Sensitized Solar Cells. <i>ACS Applied Materials &amp; Interfaces</i> , 2019, 11, 41415-41423.                                      | 4.0 | 29        |
| 126 | Vanadium Nitride Quantum Dots/Holey Graphene Matrix Boosting Adsorption and Conversion Reaction Kinetics for High-Performance Lithium-Sulfur Batteries. <i>ACS Applied Materials &amp; Interfaces</i> , 2021, 13, 30746-30755. | 4.0 | 29        |



| #   | ARTICLE  | IF  | CITATIONS |
|-----|--|-----|-----------|
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