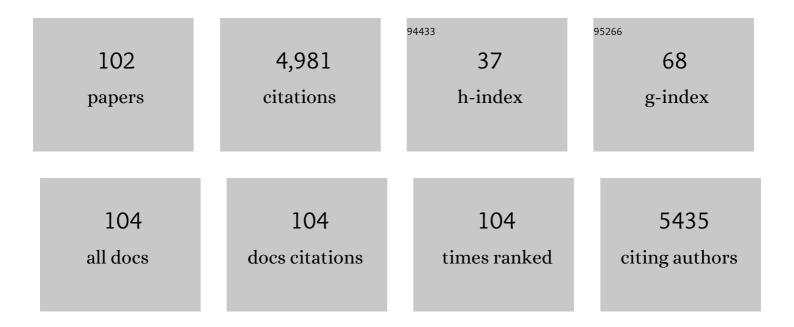
Jialong Zhao

List of Publications by Year in descending order

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Ιμιονς Ζηλο

| # | Article | IF | CITATIONS |
|----|--|------|-----------|
| 1 | Efficient CdSe/CdS Quantum Dot Light-Emitting Diodes Using a Thermally Polymerized Hole Transport Layer. Nano Letters, 2006, 6, 463-467. | 9.1 | 502 |
| 2 | Photoluminescence Temperature Dependence, Dynamics, and Quantum Efficiencies in Mn ²⁺ -Doped CsPbCl ₃ Perovskite Nanocrystals with Varied Dopant Concentration. Chemistry of Materials, 2017, 29, 8003-8011. | 6.7 | 274 |
| 3 | Temperature-Dependent Photoluminescence of CdSe-Core CdS/CdZnS/ZnS-Multishell Quantum Dots. Journal of Physical Chemistry C, 2009, 113, 13545-13550. | 3.1 | 218 |
| 4 | Blue Quantum Dot Light-Emitting Diodes with High Electroluminescent Efficiency. ACS Applied Materials & Interfaces, 2017, 9, 38755-38760. | 8.0 | 204 |
| 5 | Towards efficient solid-state photoluminescence based on carbon-nanodots and starch composites. Nanoscale, 2014, 6, 13076-13081. | 5.6 | 193 |
| 6 | Temperature-dependent photoluminescence of inorganic perovskite nanocrystal films. RSC Advances, 2016, 6, 78311-78316. | 3.6 | 182 |
| 7 | Thermal degradation of luminescence in inorganic perovskite CsPbBr ₃ nanocrystals. Physical Chemistry Chemical Physics, 2017, 19, 8934-8940. | 2.8 | 147 |
| 8 | Electroluminescence from isolated CdSeâ^•ZnS quantum dots in multilayered light-emitting diodes. Journal of Applied Physics, 2004, 96, 3206-3210. | 2.5 | 144 |
| 9 | Boosting triplet self-trapped exciton emission in Te(IV)-doped Cs2SnCl6 perovskite variants. Nano Research, 2021, 14, 1551-1558. | 10.4 | 127 |
| 10 | Efficient Energy Transfer in Te ⁴⁺ -Doped Cs ₂ ZrCl ₆ Vacancy-Ordered Perovskites and Ultrahigh Moisture Stability via A-Site Rb-Alloying Strategy. Journal of Physical Chemistry Letters, 2021, 12, 1829-1837. | 4.6 | 127 |
| 11 | Toward Highly Luminescent and Stabilized Silica-Coated Perovskite Quantum Dots through Simply Mixing and Stirring under Room Temperature in Air. ACS Applied Materials & Interfaces, 2018, 10, 13053-13061. | 8.0 | 115 |
| 12 | Enhancing the Performance of Quantum Dot Light-Emitting Diodes Using Room-Temperature-Processed Ga-Doped ZnO Nanoparticles as the Electron Transport Layer. ACS Applied Materials & Interfaces, 2017, 9, 15605-15614. | 8.0 | 113 |
| 13 | Thermal stability of Mn ²⁺ ion luminescence in Mn-doped core–shell quantum dots. Nanoscale, 2014, 6, 300-307. | 5.6 | 105 |
| 14 | Efficient Photoluminescence of Mn ²⁺ lons in MnS/ZnS Core/Shell Quantum Dots. Journal of Physical Chemistry C, 2009, 113, 16969-16974. | 3.1 | 103 |
| 15 | High color purity ZnSe/ZnS core/shell quantum dot based blue light emitting diodes with an inverted device structure. Applied Physics Letters, 2013, 103, . | 3.3 | 86 |
| 16 | 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, 8659-8666. | 8.0 | 86 |
| 17 | Self-Trapped Exciton Emission in a Zero-Dimensional (TMA) ₂ SbCl ₅ ·DMF Single Crystal and Molecular Dynamics Simulation of Structural Stability. Journal of Physical Chemistry Letters, 2021, 12, 7091-7099. | 4.6 | 86 |
| 18 | Improved Doping and Emission Efficiencies of Mn-Doped CsPbCl ₃ Perovskite Nanocrystals via Nickel Chloride. Journal of Physical Chemistry Letters, 2019, 10, 4177-4184. | 4.6 | 79 |

| # | Article | IF | CITATIONS |
|----|---|------|-----------|
| 19 | Near-Unity Red Mn ²⁺ Photoluminescence Quantum Yield of Doped CsPbCl ₃ Nanocrystals with Cd Incorporation. Journal of Physical Chemistry Letters, 2020, 11, 2142-2149. | 4.6 | 77 |
| 20 | Highly Efficient and Low Turn-On Voltage Quantum Dot Light-Emitting Diodes by Using a Stepwise Hole-Transport Layer. ACS Applied Materials & Interfaces, 2015, 7, 15955-15960. | 8.0 | 76 |
| 21 | Highly Stable Red Quantum Dot Light-Emitting Diodes with Long <i>T</i> ₉₅ Operation Lifetimes. Journal of Physical Chemistry Letters, 2020, 11, 3111-3115. | 4.6 | 76 |
| 22 | The work mechanism and sub-bandgap-voltage electroluminescence in inverted quantum dot light-emitting diodes. Scientific Reports, 2014, 4, 6974. | 3.3 | 73 |
| 23 | Phase control of hierarchically structured mesoporous anatase TiO2 microspheres covered with {001} facets. Journal of Materials Chemistry, 2012, 22, 21965. | 6.7 | 66 |
| 24 | Highly efficient green InP-based quantum dot light-emitting diodes regulated by inner alloyed shell component. Light: Science and Applications, 2022, 11, . | 16.6 | 55 |
| 25 | Advances and Challenges in Two-Dimensional Organic–Inorganic Hybrid Perovskites Toward High-Performance Light-Emitting Diodes. Nano-Micro Letters, 2021, 13, 163. | 27.0 | 54 |
| 26 | Robust and Stable Ratiometric Temperature Sensor Based on Zn–In–S Quantum Dots with Intrinsic Dualâ€Đopant Ion Emissions. Advanced Functional Materials, 2016, 26, 7224-7233. | 14.9 | 53 |
| 27 | Enhanced luminescence and energy transfer in Mn ²⁺ doped CsPbCl _{3â^'x} Br _x perovskite nanocrystals. Nanoscale, 2018, 10, 19435-19442. | 5.6 | 53 |
| 28 | Shell-thickness-dependent photoinduced electron transfer from CuInS2/ZnS quantum dots to TiO2 films. Applied Physics Letters, 2013, 102, . | 3.3 | 50 |
| 29 | Highly efficient and well-resolved Mn2+ ion emission in MnS/ZnS/CdS quantum dots. Journal of Materials Chemistry C, 2013, 1, 2540. | 5.5 | 50 |
| 30 | Color-tunable photoluminescence of Cu-doped Zn–In–Se quantum dots and their electroluminescence properties. Journal of Materials Chemistry C, 2016, 4, 581-588. | 5.5 | 48 |
| 31 | Inverted CdSe/CdS/ZnS quantum dot light emitting devices with titanium dioxide as an electron-injection contact. Nanoscale, 2013, 5, 3474. | 5.6 | 47 |
| 32 | Magnetic circular dichroism of ferromagnetic Co2+-doped ZnO. Applied Physics Letters, 2006, 89, 062510. | 3.3 | 45 |
| 33 | WO ₃ â€Based Electrochromic Distributed Bragg Reflector: Toward Electrically Tunable Microcavity Luminescent Device. Advanced Optical Materials, 2018, 6, 1700791. | 7.3 | 45 |
| 34 | Photoluminescence Quenching of CdSe Core/Shell Quantum Dots by Hole Transporting Materials. Journal of Physical Chemistry C, 2009, 113, 1886-1890. | 3.1 | 43 |
| 35 | Mn ²⁺ -doped Zn–In–S quantum dots with tunable bandgaps and high photoluminescence properties. Journal of Materials Chemistry C, 2015, 3, 8844-8851. | 5.5 | 43 |
| 36 | Shell-dependent electroluminescence from colloidal CdSe quantum dots in multilayer light-emitting diodes. Journal of Applied Physics, 2009, 105, . | 2.5 | 39 |

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| 37 | Efficient full-color emitting carbon-dot-based composite phosphors by chemical dispersion. Nanoscale, 2020, 12, 15823-15831. | 5.6 | 39 |
| 38 | Ultrafast carrier dynamics in CulnS2 quantum dots. Applied Physics Letters, 2014, 104, . | 3.3 | 38 |
| 39 | High-efficiency inverted quantum dot light-emitting diodes with enhanced hole injection. Nanoscale, 2017, 9, 6748-6754. | 5.6 | 35 |
| 40 | Inorganic Solid Phosphorus Precursor of Sodium Phosphaethynolate for Synthesis of Highly Luminescent InP-Based Quantum Dots. ACS Energy Letters, 2021, 6, 2697-2703. | 17.4 | 35 |
| 41 | Component Engineering to Tailor the Structure and Optical Properties of Sb-Doped Indium-Based Halides. Inorganic Chemistry, 2022, 61, 1486-1494. | 4.0 | 35 |
| 42 | Improving the efficiency and reducing efficiency roll-off in quantum dot light emitting devices by utilizing plasmonic Au nanoparticles. Journal of Materials Chemistry C, 2013, 1, 470-476. | 5.5 | 33 |
| 43 | Efficient and Stable Red Emissive Carbon Nanoparticles with a Hollow Sphere Structure for White Light-Emitting Diodes. ACS Applied Materials & Interfaces, 2016, 8, 31863-31870. | 8.0 | 32 |
| 44 | Enhancing luminescence of intrinsic and Mn doped CsPbCl3 perovskite nanocrystals through Co2+ doping. Materials Research Bulletin, 2020, 121, 110608. | 5.2 | 32 |
| 45 | Mössbauer study on the magnetic properties and cation distribution of CoFe2O4 nanoparticles synthesized by hydrothermal method. Journal of Materials Science, 2016, 51, 5487-5492. | 3.7 | 31 |
| 46 | Degradation of quantum dot light emitting diodes, the case under a low driving level. Journal of Materials Chemistry C, 2020, 8, 2014-2018. | 5.5 | 31 |
| 47 | Cu doping-enhanced emission efficiency of Mn2+ in cesium lead halide perovskite nanocrystals for efficient white light-emitting diodes. Journal of Luminescence, 2020, 227, 117586. | 3.1 | 30 |
| 48 | Mg-Doped ZnO Nanoparticle Films as the Interlayer between the ZnO Electron Transport Layer and InP Quantum Dot Layer for Light-Emitting Diodes. Journal of Physical Chemistry C, 2020, 124, 8758-8765. | 3.1 | 30 |
| 49 | Photoluminescence Lifetimes and Thermal Degradation of Mn ²⁺ -Doped CsPbCl ₃ Perovskite Nanocrystals. Journal of Physical Chemistry C, 2018, 122, 23217-23223. | 3.1 | 28 |
| 50 | Ultraviolet Light-Induced Degradation of Luminescence in Mn-Doped CsPbCl ₃ Nanocrystals. Journal of Physical Chemistry C, 2019, 123, 14849-14857. | 3.1 | 28 |
| 51 | Stoichiometryâ€Controlled Phase Engineering of Cesium Bismuth Halides and Reversible Structure Switch. Advanced Optical Materials, 2022, 10, . | 7.3 | 27 |
| 52 | Thermal and photo stability of all inorganic lead halide perovskite nanocrystals. Physical Chemistry Chemical Physics, 2021, 23, 17113-17128. | 2.8 | 25 |
| 53 | Improved ultraviolet radiation stability of Mn ²⁺ -doped CsPbCl ₃ nanocrystals <i>via</i> B-site Sn doping. CrystEngComm, 2019, 21, 6238-6245. | 2.6 | 24 |
| 54 | Phase-Selective Solution Synthesis of Cd-Based Perovskite Derivatives and Their Structure/Emission Modulation. Journal of Physical Chemistry Letters, 2022, 13, 3682-3690. | 4.6 | 23 |

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| 55 | Temperature-dependent photoluminescence of Mn doped CsPbCl3 perovskite nanocrystals in mesoporous silica. Journal of Luminescence, 2018, 204, 10-15. | 3.1 | 22 |
| 56 | Pressure-Engineered Optical and Charge Transport Properties of Mn ²⁺ /Cu ²⁺ Codoped CsPbCl ₃ Perovskite Nanocrystals <i>via</i> Structural Progression. ACS Applied Materials & Interfaces, 2020, 12, 48225-48236. | 8.0 | 22 |
| 57 | Electronic and Excitonic Processes in Quantum Dot Light-Emitting Diodes. Journal of Physical Chemistry Letters, 2022, 13, 2878-2884. | 4.6 | 21 |
| 58 | Efficient Self-Trapped Exciton Emission in Ruddlesden–Popper Sb-Doped Cs ₃ Cd ₂ Cl ₇ Perovskites. Journal of Physical Chemistry C, 2022, 126, 11238-11245. | 3.1 | 21 |
| 59 | Heat-up synthesis of Ag–In–S and Ag–In–S/ZnS nanocrystals: Effect of indium precursors on their optical properties. Journal of Alloys and Compounds, 2016, 665, 137-143. | 5.5 | 20 |
| 60 | Enhancing Mn Emission of CsPbCl3 Perovskite Nanocrystals via Incorporation of Rubidium Ions. Materials Research Bulletin, 2021, 133, 111080. | 5.2 | 20 |
| 61 | Efficient energy transfer from hole transporting materials to CdSe-core CdS/ZnCdS/ZnS-multishell quantum dots in type II aligned blend films. Applied Physics Letters, 2011, 99, 093106. | 3.3 | 19 |
| 62 | High performance, top-emitting, quantum dot light-emitting diodes with all solution-processed functional layers. Journal of Materials Chemistry C, 2017, 5, 9138-9145. | 5.5 | 18 |
| 63 | Mn doped AZIS/ZnS nanocrystals (NCs): Effects of Ag and Mn levels on NC optical properties. Journal of Alloys and Compounds, 2018, 765, 236-244. | 5.5 | 18 |
| 64 | Red, Green, and Blue Microcavity Quantum Dot Light-Emitting Devices with Narrow Line Widths. ACS Applied Nano Materials, 2020, 3, 5301-5310. | 5.0 | 18 |
| 65 | Surface organic ligand-passivated quantum dots: toward high-performance light-emitting diodes with long lifetimes. Journal of Materials Chemistry C, 2021, 9, 2483-2490. | 5.5 | 18 |
| 66 | Thermal stability of photoluminescence in Cu-doped Zn–In–S quantum dots for light-emitting diodes. Physical Chemistry Chemical Physics, 2016, 18, 10976-10982. | 2.8 | 17 |
| 67 | Near-unity blue-orange dual-emitting Mn-doped perovskite nanocrystals with metal alloying for efficient white light-emitting diodes. Journal of Colloid and Interface Science, 2021, 603, 864-873. | 9.4 | 17 |
| 68 | Mn doped AIZS/ZnS nanocrystals: Synthesis and optical properties. Journal of Alloys and Compounds, 2017, 725, 1077-1083. | 5.5 | 16 |
| 69 | 2D Nitrogen ontaining Carbon Material C ₅ N as Potential Host Material for Lithium Polysulfides: A Firstâ€Principles Study. Advanced Theory and Simulations, 2019, 2, 1800165. | 2.8 | 16 |
| 70 | Enhancement of electron transfer from CdSe core/shell quantum dots to TiO2 films by thermal annealing. Journal of Luminescence, 2013, 142, 196-201. | 3.1 | 15 |
| 71 | Photoluminescence properties of transition metal-doped Zn–In–S/ZnS core/shell quantum dots in solid films. RSC Advances, 2016, 6, 44859-44864. | 3.6 | 15 |
| 72 | Tunable photoluminescence and an enhanced photoelectric response of Mn ²⁺ -doped CsPbCl ₃ perovskite nanocrystals <i>via</i> pressure-induced structure evolution. Nanoscale, 2019, 11, 11660-11670. | 5.6 | 15 |

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| 73 | A bright outlook for quantum dots. Nature Photonics, 2007, 1, 683-684. | 31.4 | 14 |
| 74 | Ultrafast Carrier Dynamics and Hot Electron Extraction in Tetrapod-Shaped CdSe Nanocrystals. ACS Applied Materials & Interfaces, 2015, 7, 7938-7944. | 8.0 | 14 |
| 75 | Thermally stable luminescence of Mn2+ in Mn doped CsPbCl3 nanocrystals embedded in polydimethylsiloxane films. Journal of Luminescence, 2018, 202, 157-162. | 3.1 | 14 |
| 76 | Photoinduced Charge Separation and Recombination Processes in CdSe Quantum Dot and Graphene Oxide Composites with Methylene Blue as Linker. Journal of Physical Chemistry Letters, 2013, 4, 2919-2925. | 4.6 | 13 |
| 77 | Tunable Green Light-Emitting CsPbBr ₃ Based Perovskite-Nanocrystals-in-Glass Flexible Film Enables Production of Stable Backlight Display. Journal of Physical Chemistry Letters, 2022, 13, 4701-4709. | 4.6 | 13 |
| 78 | Mg ²⁺ -Assisted Passivation of Defects in CsPbl ₃ Perovskite Nanocrystals for High-Efficiency Photoluminescence. Journal of Physical Chemistry Letters, 2021, 12, 11090-11097. | 4.6 | 12 |
| 79 | Studies on 0.96 and 0.84 eV photoluminescence emissions in GaAs epilayers grown on Si. Journal of Applied Physics, 1996, 79, 7173-7176. | 2.5 | 9 |
| 80 | Exciton-phonon coupled states in CuCl quantum cubes. Physical Review B, 2000, 63, . | 3.2 | 9 |
| 81 | Photoluminescence quenching and electron transfer in CuInS ₂ /ZnS core/shell quantum dot and FePt nanoparticle blend films. RSC Advances, 2015, 5, 30981-30988. | 3.6 | 9 |
| 82 | Large-Area Tunable Red/Green/Blue Tri-Stacked Quantum Dot Light-Emitting Diode Using Sandwich-Structured Transparent Silver Nanowires Electrodes. ACS Applied Materials & Interfaces, 2020, 12, 48820-48827. | 8.0 | 9 |
| 83 | Efficient, air-stable quantum dots light-emitting devices with MoO3 modifying the anode. Journal of Luminescence, 2013, 143, 442-446. | 3.1 | 8 |
| 84 | Room temperature synthesis of Mn-doped Cs ₃ Pb _{6.48} Cl ₁₆ perovskite nanocrystals with pure dopant emission and temperature-dependent photoluminescence. CrystEngComm, 2019, 21, 3568-3575. | 2.6 | 8 |
| 85 | Cu substitution boosts self-trapped exciton emission in zinc-based metal halides for sky-blue light-emitting diodes. Journal of Materials Chemistry C, 2022, 10, 9530-9537. | 5.5 | 8 |
| 86 | On the accurate characterization of quantum-dot light-emitting diodes for display applications. Npj Flexible Electronics, 2022, 6, . | 10.7 | 8 |
| 87 | Synthesis and optical properties of Mn2+-doped Cd–In–S colloidal nanocrystals. Journal of Materials Science, 2020, 55, 12801-12810. | 3.7 | 7 |
| 88 | Enhanced photoluminescence efficiencies of CsPbCl3-xBrx nanocrystals by incorporating neodymium ions. Journal of Luminescence, 2022, 243, 118658. | 3.1 | 7 |
| 89 | Aluminum chloride assisted synthesis of near-unity emitting Mn ²⁺ -doped CsPbCl ₃ perovskite nanocrystals for bright white light-emitting diodes. Journal of Materials Chemistry C, 2022, 10, 9849-9857. | 5.5 | 7 |
| 90 | C–O bond activation and splitting behaviours of CO ₂ on a 4H-SiC surface: a DFT study. Physical Chemistry Chemical Physics, 2018, 20, 26846-26852. | 2.8 | 6 |

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| 91 | Near-unity photoluminescence quantum yield Mn-doped two-dimensional halide perovskite platelets via hydrobromic acid-assisted synthesis. Journal of Luminescence, 2022, 245, 118790. | 3.1 | 6 |
| 92 | A-Site FA ⁺ Doping-Enhanced Photoluminescence Efficiency and Photostability of Mn-Doped Perovskite Nanocrystals. Journal of Physical Chemistry C, 2022, 126, 3582-3590. | 3.1 | 6 |
| 93 | Mn-doped Cu-Zn-In-S/ZnS nanocrystals: optical properties and their use as time-gated fluorescence probes. Journal of Nanoparticle Research, 2019, 21, 1. | 1.9 | 5 |
| 94 | Photoluminescence of CdS semiconductor nanocrystals in sodium borosilicate glasses. Journal of Materials Science Letters, 1996, 15, 702-705. | 0.5 | 4 |
| 95 | Universal Dephasing Mechanism in Semiconductor Quantum Dots Embedded in a Matrix. Journal of the Physical Society of Japan, 2003, 72, 249-252. | 1.6 | 4 |
| 96 | Boosted luminescence efficiency and stability of Mn-doped perovskite nanoplatelets via incorporating Cd2+ ions. Materials Research Bulletin, 2022, 151, 111825. | 5.2 | 4 |
| 97 | Confined Acoustic Vibration Modes in CuBr Quantum Dots. Journal of the Physical Society of Japan, 2005, 74, 3082-3087. | 1.6 | 2 |
| 98 | Effects of Magnetic Annealing on Structure and Magnetic Properties of L10-FePt/Ag Films. Journal of Superconductivity and Novel Magnetism, 2015, 28, 2491-2494. | 1.8 | 1 |
| 99 | Correction to "Mg Doped-ZnO Nanoparticle Film as the Interlayer between ZnO Electron Transport Layer and InP Quantum-Dot Layer for Light-Emitting Diodesâ€: Journal of Physical Chemistry C, 2020, 124, 11274-11274. | 3.1 | 1 |
| 100 | Temperature dependence of deep-level photoluminescence in Ga0.5In0.5P epilayers grown by metal-organic chemical vapour deposition. Journal of Materials Science Letters, 1993, 12, 53-55. | 0.5 | 1 |
| 101 | Optical Nonlinearities Of The Metal-oxide Semiconductor Particles. , 1990, , . | | 0 |
| 102 | Studies on deep levels in GaAs epilayers grown on Si by metal-organic chemical vapour deposition. Journal of Materials Science Letters, 1996, 15, 189-191. | 0.5 | 0 |