

# Zhigang Zang

## List of Publications by Year in descending order

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Version: 2024-02-01

151  
papers

13,915  
citations

13068

68  
h-index

20900

115  
g-index

152  
all docs

152  
docs citations

152  
times ranked

13056  
citing authors

| #  | ARTICLE                                                                                                                                                                                                                       | IF  | CITATIONS |
|----|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----|-----------|
| 1  | Stable yellow light emission from lead-free copper halides single crystals for visible light communication. <i>Nano Materials Science</i> , 2023, 5, 78-85.                                                                   | 3.9 | 11        |
| 2  | Passivating buried interface via self-assembled novel sulfonium salt toward stable and efficient perovskite solar cells. <i>Chemical Engineering Journal</i> , 2022, 431, 133209.                                             | 6.6 | 74        |
| 3  | Pressure-assisted cooling to grow ultra-stable $\text{Cs}_3\text{Cu}_2\text{I}_5$ and $\text{CsCu}_2\text{I}_3$ single crystals for solid-state lighting and visible light communication. <i>EcoMat</i> , 2022, 4, .          | 6.8 | 28        |
| 4  | Improving Humidity Sensing of Black Phosphorus Nanosheets by Co-Doping Benzyl Viologen and Au Nanoparticles. <i>Journal of the Electrochemical Society</i> , 2022, 169, 017513.                                               | 1.3 | 8         |
| 5  | Highly efficient emission and high-CRI warm white light-emitting diodes from ligand-modified $\text{CsPbBr}_3$ quantum dots. <i>Opto-Electronic Advances</i> , 2022, 5, 200075-200075.                                        | 6.4 | 92        |
| 6  | Inorganic halide perovskites for lighting and visible light communication. <i>Photonics Research</i> , 2022, 10, 1039.                                                                                                        | 3.4 | 26        |
| 7  | Excited-state regulation in eco-friendly ZnSeTe-based quantum dots by cooling engineering. <i>Science China Materials</i> , 2022, 65, 1569-1576.                                                                              | 3.5 | 8         |
| 8  | Ion diffusion-induced double layer doping toward stable and efficient perovskite solar cells. <i>Nano Research</i> , 2022, 15, 5114-5122.                                                                                     | 5.8 | 47        |
| 9  | Performance enhancement of solution-processed InZnO thin-film transistors by Al doping and surface passivation. <i>Journal of Semiconductors</i> , 2022, 43, 034102.                                                          | 2.0 | 11        |
| 10 | Enhanced p-Type Conductivity of $\text{NiO}_x$ Films with Divalent Cd Ion Doping for Efficient Inverted Perovskite Solar Cells. <i>ACS Applied Materials &amp; Interfaces</i> , 2022, 14, 17434-17443.                        | 4.0 | 13        |
| 11 | Template Assembled Large-Size $\text{CsPbBr}_3$ Nanocomposite Films toward Flexible, Stable, and High-Performance X-Ray Scintillators. <i>Laser and Photonics Reviews</i> , 2022, 16, .                                       | 4.4 | 59        |
| 12 | Self-Formed Multifunctional Grain Boundary Passivation Layer Achieving 22.4% Efficient and Stable Perovskite Solar Cells. <i>Solar Rrl</i> , 2022, 6, .                                                                       | 3.1 | 13        |
| 13 | Interfacial defect passivation by novel phosphonium salts yields 22% efficiency perovskite solar cells: Experimental and theoretical evidence. <i>EcoMat</i> , 2022, 4, .                                                     | 6.8 | 35        |
| 14 | Simultaneous Passivation of Bulk and Interface Defects with Gradient 2D/3D Heterojunction Engineering for Efficient and Stable Perovskite Solar Cells. <i>ACS Applied Materials &amp; Interfaces</i> , 2022, 14, 21079-21088. | 4.0 | 26        |
| 15 | Opportunities and challenges of low-dimensional hybrid metal halides in white light-emitting diodes. <i>Journal Physics D: Applied Physics</i> , 2022, 55, 333003.                                                            | 1.3 | 8         |
| 16 | Ion migration suppression mechanism via 4-sulfobenzoic acid monopotassium salt for 22.7% stable perovskite solar cells. <i>Science China Materials</i> , 2022, 65, 3368-3381.                                                 | 3.5 | 19        |
| 17 | Stabilizing Perovskite Precursor by Synergy of Functional Groups for $\text{NiO}_x$ -Based Inverted Solar Cells with 23.5% Efficiency. <i>Angewandte Chemie - International Edition</i> , 2022, 61, .                         | 7.2 | 82        |
| 18 | Revealing Steric-Hindrance-Dependent Buried Interface Defect Passivation Mechanism in Efficient and Stable Perovskite Solar Cells with Mitigated Tensile Stress. <i>Advanced Functional Materials</i> , 2022, 32, .           | 7.8 | 83        |

| #  | ARTICLE                                                                                                                                                                                                                             | IF  | CITATIONS |
|----|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----|-----------|
| 19 | Double-Side Interface Engineering Synergistically Boosts the Efficiency of Inorganic CsPbBr <sub>2</sub> Perovskite Solar Cells Over 12%. <i>Advanced Optical Materials</i> , 2022, 10, .                                           | 3.6 | 16        |
| 20 | Highly Efficient and Ultra-Broadband Yellow Emission of Lead-Free Antimony Halide toward White Light-Emitting Diodes and Visible Light Communication. <i>Laser and Photonics Reviews</i> , 2022, 16, .                              | 4.4 | 36        |
| 21 | Sodium Benzenesulfonate Modified Poly (3,4-Ethylenedioxythiophene):Polystyrene Sulfonate with Improved Wettability and Work Function for Efficient and Stable Perovskite Solar Cells. <i>Solar Rrl</i> , 2021, 5, .                 | 3.1 | 51        |
| 22 | Room temperature synthesis of Sn <sup>2+</sup> -doped highly luminescent CsPbBr <sub>3</sub> quantum dots for high CRI white light-emitting diodes. <i>Nanoscale</i> , 2021, 13, 9740-9746.                                         | 2.8 | 42        |
| 23 | All-Inorganic Lead-Free Perovskite (â€Like) Single Crystals: Synthesis, Properties, and Applications. <i>Small Methods</i> , 2021, 5, e2001308.                                                                                     | 4.6 | 60        |
| 24 | One-Volt, Solution-Processed InZnO Thin-Film Transistors. <i>IEEE Electron Device Letters</i> , 2021, 42, 525-528.                                                                                                                  | 2.2 | 35        |
| 25 | Efficiently Luminescent and Stable Lead-Free Cs <sub>3</sub> Cu <sub>2</sub> Cl <sub>5</sub> @Silica Nanocrystals for White Light-Emitting Diodes and Communication. <i>Advanced Optical Materials</i> , 2021, 9, 2100307.          | 3.6 | 73        |
| 26 | Dual Resistance and Impedance Investigation: Ultrasensitive and Stable Humidity Detection of Molybdenum Disulfide Nanosheet-Polyethylene Oxide Hybrids. <i>ACS Applied Materials &amp; Interfaces</i> , 2021, 13, 25250-25259.      | 4.0 | 33        |
| 27 | Opportunities and challenges of inorganic perovskites in high-performance photodetectors. <i>Journal Physics D: Applied Physics</i> , 2021, 54, 293002.                                                                             | 1.3 | 35        |
| 28 | Crystal Orientation Modulation and Defect Passivation for Efficient and Stable Methylammonium-Free Dion-Jacobson Quasi-2D Perovskite Solar Cells. <i>ACS Applied Materials &amp; Interfaces</i> , 2021, 13, 29567-29575.            | 4.0 | 24        |
| 29 | Interfacial Defect Passivation and Stress Release via Multi-Active-Site Ligand Anchoring Enables Efficient and Stable Methylammonium-Free Perovskite Solar Cells. <i>ACS Energy Letters</i> , 2021, 6, 2526-2538.                   | 8.8 | 170       |
| 30 | Simultaneous passivation of bulk and interface defects through synergistic effect of anion and cation toward efficient and stable planar perovskite solar cells. <i>Journal of Energy Chemistry</i> , 2021, 63, 452-460.            | 7.1 | 105       |
| 31 | Hollow Cu <sub>2</sub> O nanospheres loaded with MoS <sub>2</sub> /reduced graphene oxide nanosheets for ppb-level NO <sub>2</sub> detection at room temperature. <i>Journal of Hazardous Materials</i> , 2021, 416, 126218.        | 6.5 | 83        |
| 32 | Interfacial defect passivation and stress release by multifunctional KPF6 modification for planar perovskite solar cells with enhanced efficiency and stability. <i>Chemical Engineering Journal</i> , 2021, 418, 129375.           | 6.6 | 157       |
| 33 | Room Temperature Synthesis of Stable Zirconia-Coated CsPbBr <sub>3</sub> Nanocrystals for White Light-Emitting Diodes and Visible Light Communication. <i>Laser and Photonics Reviews</i> , 2021, 15, 2100278.                      | 4.4 | 138       |
| 34 | Interfacial gradient energy band alignment modulation via ion exchange reaction toward efficient and stable methylammonium-free Dion-Jacobson quasi-2D perovskite solar cells. <i>Journal of Power Sources</i> , 2021, 506, 230213. | 4.0 | 16        |
| 35 | Highly stable CsPbBr <sub>3</sub> quantum dots by silica-coating and ligand modification for white light-emitting diodes and visible light communication. <i>Chemical Engineering Journal</i> , 2021, 419, 129551.                  | 6.6 | 96        |
| 36 | Intrinsic white-light emission from low-dimensional perovskites for white-light-emitting diodes with high-color-rendering index. <i>Cell Reports Physical Science</i> , 2021, 2, 100585.                                            | 2.8 | 21        |

| #  | ARTICLE                                                                                                                                                                                                                                                | IF  | CITATIONS |
|----|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----|-----------|
| 37 | Interface modification by ethanolamine interfacial layer for efficient planar structure perovskite solar cells. <i>Journal of Power Sources</i> , 2021, 513, 230549.                                                                                   | 4.0 | 11        |
| 38 | Conductometric room temperature ammonia sensors based on titanium dioxide nanoparticles decorated thin black phosphorus nanosheets. <i>Sensors and Actuators B: Chemical</i> , 2021, 349, 130770.                                                      | 4.0 | 72        |
| 39 | Inorganic lead-free cesium copper chlorine nanocrystal for highly efficient and stable warm white light-emitting diodes. <i>Photonics Research</i> , 2021, 9, 187.                                                                                     | 3.4 | 44        |
| 40 | Multifunctional organic ammonium salt-modified SnO <sub>2</sub> nanoparticles toward efficient and stable planar perovskite solar cells. <i>Journal of Materials Chemistry A</i> , 2021, 9, 3940-3951.                                                 | 5.2 | 146       |
| 41 | Low-operating temperature ammonia sensor based on Cu <sub>2</sub> O nanoparticles decorated with p-type MoS <sub>2</sub> nanosheets. <i>Journal of Materials Chemistry C</i> , 2021, 9, 4838-4846.                                                     | 2.7 | 72        |
| 42 | Highly efficient emission and high-CRI warm white light-emitting diodes from ligand-modified CsPbBr <sub>3</sub> quantum dots. <i>Opto-Electronic Advances</i> , 2021, .                                                                               | 6.4 | 10        |
| 43 | MXene Ti <sub>3</sub> C <sub>2</sub> T <sub>x</sub> -Derived Nitrogen-Functionalized Heterophase TiO <sub>2</sub> Homojunctions for Room-Temperature Trace Ammonia Gas Sensing. <i>ACS Applied Materials &amp; Interfaces</i> , 2021, 13, 56485-56497. | 4.0 | 77        |
| 44 | Deciphering Ultrafast Carrier Dynamics of Eco-Friendly ZnSeTe-Based Quantum Dots: Toward High-Quality Blue-Green Emitters. <i>Journal of Physical Chemistry Letters</i> , 2021, 12, 11931-11938.                                                       | 2.1 | 13        |
| 45 | NH <sub>4</sub> Cl-Modified ZnO for High-Performance CsPbBr <sub>2</sub> Perovskite Solar Cells via Low-Temperature Process. <i>Solar Rrl</i> , 2020, 4, 1900363.                                                                                      | 3.1 | 186       |
| 46 | Room temperature synthesis of stable single silica-coated CsPbBr <sub>3</sub> quantum dots combining tunable red emission of Ag-In-Zn-S for High-CRI white light-emitting diodes. <i>Nano Energy</i> , 2020, 67, 104279.                               | 8.2 | 197       |
| 47 | The Role of Mineral Acid Doping of PEDOT:PSS and Its Application in Organic Photovoltaics. <i>Advanced Electronic Materials</i> , 2020, 6, 1900648.                                                                                                    | 2.6 | 56        |
| 48 | Optoelectronic Modulation of Undoped NiO Films for Inverted Perovskite Solar Cells via Intrinsic Defect Regulation. <i>ACS Applied Energy Materials</i> , 2020, 3, 9732-9741.                                                                          | 2.5 | 20        |
| 49 | Methylammonium chloride as an interface modifier for planar-structure perovskite solar cells with a high open circuit voltage of 1.19V. <i>Journal of Power Sources</i> , 2020, 480, 229073.                                                           | 4.0 | 41        |
| 50 | High-Efficiency and Stable Inverted Planar Perovskite Solar Cells with Pulsed Laser Deposited Cu-Doped NiO Hole-Transport Layers. <i>ACS Applied Materials &amp; Interfaces</i> , 2020, 12, 50684-50691.                                               | 4.0 | 33        |
| 51 | Small Molecule Modulator at the Interface for Efficient Perovskite Solar Cells with High Short-Circuit Current Density and Hysteresis Free. <i>Advanced Electronic Materials</i> , 2020, 6, 2000604.                                                   | 2.6 | 62        |
| 52 | Interface Modulator of Ultrathin Magnesium Oxide for Low-Temperature-Processed Inorganic CsPbBr <sub>2</sub> Perovskite Solar Cells with Efficiency Over 11%. <i>Solar Rrl</i> , 2020, 4, 2000226.                                                     | 3.1 | 98        |
| 53 | Challenges and strategies relating to device function layers and their integration toward high-performance inorganic perovskite solar cells. <i>Nanoscale</i> , 2020, 12, 14369-14404.                                                                 | 2.8 | 99        |
| 54 | High-Performance Photodetectors With X-Ray Responsivity Based on Interface Modified Perovskite Film. <i>IEEE Electron Device Letters</i> , 2020, 41, 1044-1047.                                                                                        | 2.2 | 12        |

| #  | ARTICLE                                                                                                                                                                                                                     | IF   | CITATIONS |
|----|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------|-----------|
| 55 | Interfacial defects passivation using fullerene-polymer mixing layer for planar-structure perovskite solar cells with negligible hysteresis. <i>Solar Energy</i> , 2020, 206, 816-825.                                      | 2.9  | 86        |
| 56 | Stable and low-threshold whispering-gallery-mode lasing from modified CsPbBr <sub>3</sub> perovskite quantum dots@SiO <sub>2</sub> sphere. <i>Chemical Engineering Journal</i> , 2020, 401, 126066.                         | 6.6  | 67        |
| 57 | Critical role of interface contact modulation in realizing low-temperature fabrication of efficient and stable CsPbI <sub>2</sub> Br perovskite solar cells. <i>Chemical Engineering Journal</i> , 2020, 394, 124903.       | 6.6  | 97        |
| 58 | High performance CsPbBr <sub>3</sub> quantum dots photodetectors by using zinc oxide nanorods arrays as an electron-transport layer. <i>Applied Physics Letters</i> , 2020, 116, .                                          | 1.5  | 102       |
| 59 | Room-temperature doping of ytterbium into efficient near-infrared emission CsPbBr <sub>1.5</sub> Cl <sub>1.5</sub> perovskite quantum dots. <i>Chemical Communications</i> , 2020, 56, 5811-5814.                           | 2.2  | 61        |
| 60 | All-Inorganic Perovskite Quantum Dots: Ligand Modification, Surface Treatment and Other Strategies for Enhanced Stability and Durability. <i>Springer Series in Materials Science</i> , 2020, , 51-106.                     | 0.4  | 2         |
| 61 | Ultrapure and highly efficient green light emitting devices based on ligand-modified CsPbBr <sub>3</sub> quantum dots. <i>Photonics Research</i> , 2020, 8, 1086.                                                           | 3.4  | 51        |
| 62 | Room temperature synthesis of stable silica-coated CsPbBr <sub>3</sub> quantum dots for amplified spontaneous emission. <i>Photonics Research</i> , 2020, 8, 1605.                                                          | 3.4  | 53        |
| 63 | Stable Dynamics Performance and High Efficiency of ABX <sub>3</sub> -type Superalkali Perovskites First Obtained by Introducing H <sub>5</sub> O <sub>2</sub> Cation. <i>Advanced Energy Materials</i> , 2019, 9, 1900664.  | 10.2 | 113       |
| 64 | Eco-friendly and high-performance photoelectrochemical anode based on AgInS <sub>2</sub> quantum dots embedded in 3D graphene nanowalls. <i>Journal of Materials Chemistry C</i> , 2019, 7, 9830-9839.                      | 2.7  | 48        |
| 65 | Perovskite Quantum Dots: Ultrathin, Core-Shell Structured SiO <sub>2</sub> Coated Mn <sup>2+</sup> -Doped Perovskite Quantum Dots for Bright White Light-Emitting Diodes (Small 19/2019). <i>Small</i> , 2019, 15, 1970101. | 5.2  | 2         |
| 66 | Tunable electronic structures and high efficiency obtained by introducing superalkali and superhalogen into AMX <sub>3</sub> -type perovskites. <i>Journal of Power Sources</i> , 2019, 429, 120-126.                       | 4.0  | 43        |
| 67 | Ultrastable CsPbBr <sub>3</sub> Perovskite Quantum Dot and Their Enhanced Amplified Spontaneous Emission by Surface Ligand Modification. <i>Small</i> , 2019, 15, e1901173.                                                 | 5.2  | 229       |
| 68 | Inhibition of In-plane Charge Transport in Hole Transfer Layer to Achieve High Fill Factor for Inverted Planar Perovskite Solar Cells. <i>Solar Rrl</i> , 2019, 3, 1900104.                                                 | 3.1  | 25        |
| 69 | Ultrathin, Core-Shell Structured SiO <sub>2</sub> Coated Mn <sup>2+</sup> -Doped Perovskite Quantum Dots for Bright White Light-Emitting Diodes. <i>Small</i> , 2019, 15, e1900484.                                         | 5.2  | 95        |
| 70 | Human hair keratin for physically transient resistive switching memory devices. <i>Journal of Materials Chemistry C</i> , 2019, 7, 3315-3321.                                                                               | 2.7  | 55        |
| 71 | Defect passivation using ultrathin PTAA layers for efficient and stable perovskite solar cells with a high fill factor and eliminated hysteresis. <i>Journal of Materials Chemistry A</i> , 2019, 7, 26421-26428.           | 5.2  | 262       |
| 72 | Enhanced single-mode lasers of all-inorganic perovskite nanocube by localized surface plasmonic effect from Au nanoparticles. <i>Journal of Luminescence</i> , 2019, 208, 402-407.                                          | 1.5  | 28        |

| #  | ARTICLE                                                                                                                                                                                                       | IF  | CITATIONS |
|----|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----|-----------|
| 73 | Highly efficient semitransparent CsPbBr <sub>2</sub> perovskite solar cells via low-temperature processed In <sub>2</sub> S <sub>3</sub> as electron-transport-layer. <i>Nano Energy</i> , 2019, 57, 718-727. | 8.2 | 211       |
| 74 | Two-dimensional lead-free hybrid halide perovskite using superatom anions with tunable electronic properties. <i>Solar Energy Materials and Solar Cells</i> , 2019, 191, 33-38.                               | 3.0 | 90        |
| 75 | Tunable dual emission in Mn <sup>2+</sup> -doped CsPbX <sub>3</sub> (X = Cl, Br) quantum dots for high efficiency white light-emitting diodes. <i>Nanotechnology</i> , 2019, 30, 075704.                      | 1.3 | 16        |
| 76 | Single cuprous oxide films synthesized by radical oxidation at low temperature for PV application: notice of redundant publication. <i>Optics Express</i> , 2019, 27, 30449.                                  | 1.7 | 2         |
| 77 | Single cuprous oxide films synthesized by radical oxidation at low temperature for PV application: publisher's note. <i>Optics Express</i> , 2019, 27, 33143.                                                 | 1.7 | 0         |
| 78 | III-VI chalcogenide semiconductor nanocrystals: Synthesis, properties, and applications. <i>Chinese Journal of Catalysis</i> , 2018, 39, 590-605.                                                             | 6.9 | 33        |
| 79 | Eliminating J-V hysteresis in perovskite solar cells via defect controlling. <i>Organic Electronics</i> , 2018, 58, 283-289.                                                                                  | 1.4 | 29        |
| 80 | Efficiency enhancement of ZnO/Cu <sub>2</sub> O solar cells with well oriented and micrometer grain sized Cu <sub>2</sub> O films. <i>Applied Physics Letters</i> , 2018, 112, .                              | 1.5 | 305       |
| 81 | Enhanced Two-Photon-Pumped Emission from In Situ Synthesized Nonblinking CsPbBr <sub>3</sub> /SiO <sub>2</sub> Nanocrystals with Excellent Stability. <i>Advanced Optical Materials</i> , 2018, 6, 1700997.   | 3.6 | 116       |
| 82 | Transient Resistive Switching Memory of CsPbBr <sub>3</sub> Thin Films. <i>Advanced Electronic Materials</i> , 2018, 4, 1700596.                                                                              | 2.6 | 60        |
| 83 | Theoretical and experimental investigation of highly photocatalytic performance of CuInZnS nanoporous structure for removing the NO gas. <i>Journal of Catalysis</i> , 2018, 357, 100-107.                    | 3.1 | 214       |
| 84 | Highly Stable Silica-Wrapped Mn-Doped CsPbCl <sub>3</sub> Quantum Dots for Bright White Light-Emitting Devices. <i>ACS Applied Materials &amp; Interfaces</i> , 2018, 10, 43978-43986.                        | 4.0 | 91        |
| 85 | Enhancement of Conductivity and Thermoelectric Property of PEDOT:PSS via Acid Doping and Single Post-treatment for Flexible Power Generator. <i>Advanced Sustainable Systems</i> , 2018, 2, 1800085.          | 2.7 | 101       |
| 86 | Resistive switching characteristics of AgInZnS nanoparticles. <i>Ceramics International</i> , 2018, 44, S152-S155.                                                                                            | 2.3 | 9         |
| 87 | Synthesis of CuInZnS quantum dots for cell labelling applications. <i>Ceramics International</i> , 2018, 44, S34-S37.                                                                                         | 2.3 | 16        |
| 88 | Efficient charge carrier separation and excellent visible light photoresponse in Cu <sub>2</sub> O nanowires. <i>Nano Energy</i> , 2018, 50, 118-125.                                                         | 8.2 | 166       |
| 89 | Performance improvement of perovskite solar cells through enhanced hole extraction: The role of iodide concentration gradient. <i>Solar Energy Materials and Solar Cells</i> , 2018, 185, 117-123.            | 3.0 | 176       |
| 90 | All-Inorganic Perovskite CsPb <sub>2</sub> Br <sub>5</sub> Microsheets for Photodetector Application. <i>Frontiers in Physics</i> , 2018, 5, .                                                                | 1.0 | 26        |

| #   | ARTICLE                                                                                                                                                                                                                     | IF  | CITATIONS |
|-----|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----|-----------|
| 91  | PEDOT:PSS monolayers to enhance the hole extraction and stability of perovskite solar cells. <i>Journal of Materials Chemistry A</i> , 2018, 6, 16583-16589.                                                                | 5.2 | 162       |
| 92  | Surface-passivated Cesium Lead Halide Perovskite Quantum Dots: Toward Efficient Light-emitting Diodes with an Inverted Sandwich Structure. <i>Advanced Optical Materials</i> , 2018, 6, 1800007.                            | 3.6 | 44        |
| 93  | Enhanced X-ray photon response in solution-synthesized CsPbBr <sub>3</sub> nanoparticles wrapped by reduced graphene oxide. <i>Solar Energy Materials and Solar Cells</i> , 2018, 187, 249-254.                             | 3.0 | 265       |
| 94  | Flexible All-Inorganic Perovskite CsPbBr <sub>3</sub> Nonvolatile Memory Device. <i>ACS Applied Materials &amp; Interfaces</i> , 2017, 9, 6171-6176.                                                                        | 4.0 | 179       |
| 95  | CsPbBr <sub>3</sub> /Reduced Graphene Oxide nanocomposites and their enhanced photoelectric detection application. <i>Sensors and Actuators B: Chemical</i> , 2017, 245, 435-440.                                           | 4.0 | 61        |
| 96  | Two-photon Lasers: Perovskite CsPb <sub>2</sub> Br <sub>5</sub> Microplate Laser with Enhanced Stability and Tunable Properties ( <i>Advanced Optical Materials</i> 3/2017). <i>Advanced Optical Materials</i> , 2017, 5, . | 3.6 | 1         |
| 97  | Flower-like nickel-zinc-cobalt mixed metal oxide nanowire arrays for electrochemical capacitor applications. <i>Journal of Alloys and Compounds</i> , 2017, 708, 146-153.                                                   | 2.8 | 72        |
| 98  | Enhanced Stability and Tunable Photoluminescence in Perovskite CsPbX <sub>3</sub> /ZnS Quantum Dot Heterostructure. <i>Small</i> , 2017, 13, 1604085.                                                                       | 5.2 | 195       |
| 99  | Swift-heavy ion implanted Nd:YVO <sub>4</sub> waveguides with birefringence preservation and Raman gain enhancement. <i>Optik</i> , 2017, 140, 579-583.                                                                     | 1.4 | 2         |
| 100 | Preparation of cubic Cu <sub>2</sub> O nanoparticles wrapped by reduced graphene oxide for the efficient removal of rhodamine B. <i>Journal of Alloys and Compounds</i> , 2017, 718, 112-115.                               | 2.8 | 249       |
| 101 | Conductivity Enhancement of PEDOT:PSS via Addition of Chloroplatinic Acid and Its Mechanism. <i>Advanced Electronic Materials</i> , 2017, 3, 1700047.                                                                       | 2.6 | 126       |
| 102 | Enhanced photoresponse of self-powered perovskite photodetector based on ZnO nanoparticles decorated CsPbBr <sub>3</sub> films. <i>Solar Energy Materials and Solar Cells</i> , 2017, 172, 341-346.                         | 3.0 | 408       |
| 103 | Robust Cesium Lead Halide Perovskite Microcubes for Frequency Upconversion Lasing. <i>Advanced Optical Materials</i> , 2017, 5, 1700419.                                                                                    | 3.6 | 64        |
| 104 | Performance improvement of perovskite solar cells by employing a CdSe quantum dot/PCBM composite as an electron transport layer. <i>Journal of Materials Chemistry A</i> , 2017, 5, 17499-17505.                            | 5.2 | 293       |
| 105 | Tunable photoluminescence of water-soluble AgInZnS-graphene oxide (GO) nanocomposites and their application in-vivo bioimaging. <i>Sensors and Actuators B: Chemical</i> , 2017, 252, 1179-1186.                            | 4.0 | 391       |
| 106 | Highly compact CsPbBr <sub>3</sub> perovskite thin films decorated by ZnO nanoparticles for enhanced random lasing. <i>Nano Energy</i> , 2017, 40, 195-202.                                                                 | 8.2 | 419       |
| 107 | Tunable photoluminescence of CsPbBr <sub>3</sub> perovskite quantum dots for light emitting diodes application. <i>Journal of Solid State Chemistry</i> , 2017, 255, 115-120.                                               | 1.4 | 42        |
| 108 | Inverted Planar Perovskite Solar Cells with a High Fill Factor and Negligible Hysteresis by the Dual Effect of NaCl-Doped PEDOT:PSS. <i>ACS Applied Materials &amp; Interfaces</i> , 2017, 9, 43902-43909.                  | 4.0 | 149       |



| #   | ARTICLE                                                                                                                                                                                                          | IF   | CITATIONS |
|-----|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------|-----------|
| 109 | Perovskite CsPb <sub>2</sub> Br <sub>5</sub> Microplate Laser with Enhanced Stability and Tunable Properties. <i>Advanced Optical Materials</i> , 2017, 5, 1600788.                                              | 3.6  | 135       |
| 110 | Two-step method for preparing all-inorganic CsPbBr <sub>3</sub> perovskite film and its photoelectric detection application. <i>Materials Letters</i> , 2017, 186, 243-246.                                      | 1.3  | 60        |
| 111 | Enhanced performance of light-controlled conductive switching in hybrid cuprous oxide/reduced graphene oxide (Cu <sub>2</sub> O/rGO) nanocomposites. <i>Optics Letters</i> , 2017, 42, 911.                      | 1.7  | 551       |
| 112 | Tunable luminescent CsPb <sub>2</sub> Br <sub>5</sub> nanoplatelets: applications in light-emitting diodes and photodetectors. <i>Photonics Research</i> , 2017, 5, 473.                                         | 3.4  | 79        |
| 113 | Synthesis of MoS <sub>2</sub> /g-C <sub>3</sub> N <sub>4</sub> nanocomposites with enhanced visible-light photocatalytic activity for the removal of nitric oxide (NO). <i>Optics Express</i> , 2016, 24, 10205. | 1.7  | 415       |
| 114 | Flexible electrochromic supercapacitor hybrid electrodes based on tungsten oxide films and silver nanowires. <i>Chemical Communications</i> , 2016, 52, 6296-6299.                                               | 2.2  | 383       |
| 115 | Interdigitated CuS/TiO <sub>2</sub> Nanotube Bulk Heterojunctions Achieved via Ion Exchange. <i>Electrochimica Acta</i> , 2016, 199, 180-186.                                                                    | 2.6  | 17        |
| 116 | Luminescent AIZS-GO nanocomposites as fluorescent probe for detecting copper(II) ion. <i>Sensors and Actuators B: Chemical</i> , 2016, 233, 25-30.                                                               | 4.0  | 49        |
| 117 | Room temperature single-photon emission and lasing for all-inorganic colloidal perovskite quantum dots. <i>Nano Energy</i> , 2016, 28, 462-468.                                                                  | 8.2  | 115       |
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| 120 | A facile method for synthesizing AgInZnS/RGO nanocomposites and their photoelectric detection application. <i>Materials Letters</i> , 2016, 182, 240-243.                                                        | 1.3  | 13        |
| 121 | Three dimensional Z-scheme (BiO) <sub>2</sub> CO <sub>3</sub> /MoS <sub>2</sub> with enhanced visible light photocatalytic NO removal. <i>Applied Catalysis B: Environmental</i> , 2016, 199, 87-95.             | 10.8 | 133       |
| 122 | Highly pure green light emission of perovskite CsPbBr <sub>3</sub> quantum dots and their application for green light-emitting diodes. <i>Optics Express</i> , 2016, 24, 15071.                                  | 1.7  | 154       |
| 123 | Synthesis of Mn doping AgInZnS nanoparticles and their photoluminescence properties. <i>Materials and Design</i> , 2016, 91, 256-261.                                                                            | 3.3  | 16        |
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| 125 | Transient multiexponential signals analysis using Bayesian deconvolution. <i>Applied Mathematics and Computation</i> , 2015, 265, 486-493.                                                                       | 1.4  | 8         |
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| #   | ARTICLE                                                                                                                                                                                                             | IF  | CITATIONS |
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