

Longxing Su

List of Publications by Year in descending order

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Version: 2024-02-01

51
papers

2,630
citations

318942

23
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214428

50
g-index

52
all docs

52
docs citations

52
times ranked

2924
citing authors

| # | ARTICLE | IF | CITATIONS |
|----|--|-----|-----------|
| 1 | Switch type PANI/ZnO core-shell microwire heterojunction for UV photodetection. Journal of Materials Science and Technology, 2022, 105, 259-265. | 5.6 | 230 |
| 2 | An all-inorganic CsPbBr ₃ /GaN hetero-structure for a near UV to green band photodetector. Journal of Materials Chemistry C, 2022, 10, 1349-1356. | 2.7 | 14 |
| 3 | Schottky-type GaN-based UV photodetector with atomic-layer-deposited TiN thin film as electrodes. Optics Letters, 2022, 47, 429. | 1.7 | 7 |
| 4 | A vertical CsPbBr ₃ /ZnO heterojunction for photo-sensing lights from UV to green band. Optics Express, 2022, 30, 23330. | 1.7 | 15 |
| 5 | Ohmic-Schottky conversion of ZnO/metal contact modulated by a plasma surface treatment method. Results in Materials, 2022, 15, 100290. | 0.9 | 1 |
| 6 | Scalable manufacture of vertical GaN/SnO ₂ heterostructure for self-powered ultraviolet photodetector, solar cell and dual-color light emitting diode. Information Materials, 2021, 3, 598-610. | 8.5 | 32 |
| 7 | A direct solvent-free conversion approach to prepare mixed-metal metal-organic frameworks from doped metal oxides. Chemical Communications, 2021, 57, 3587-3590. | 2.2 | 8 |
| 8 | Facile fabrication of heterostructure with p-BiOCl nanoflakes and n-ZnO thin film for UV photodetectors. Journal of Semiconductors, 2021, 42, 052301. | 2.0 | 29 |
| 9 | Solid-State Synthesis of Defect-Rich Zr-LiO-66 Metal-Organic Framework Nanoparticles for the Catalytic Ring Opening of Epoxides with Alcohols. ACS Applied Nano Materials, 2021, 4, 9752-9759. | 2.4 | 8 |
| 10 | Alloying induced disorder and localized excitonic states in ternary BexZn1-xO thin films. Journal of Alloys and Compounds, 2021, 874, 159867. | 2.8 | 4 |
| 11 | Selective detection of trimethylamine utilizing nanosheets assembled hierarchical WO _{2.9} nanostructure. Journal of Environmental Chemical Engineering, 2021, 9, 106493. | 3.3 | 5 |
| 12 | Vapor phase infiltration of ZnO quantum dots for all-solid-state PEO-based lithium batteries. Energy Storage Materials, 2021, 43, 258-265. | 9.5 | 25 |
| 13 | A Direct Mechanochemical Conversion of Pt Doped MOF-74 from Doped Metal Oxides for CO Oxidation. Materials Today Nano, 2021, 17, 100158. | 2.3 | 9 |
| 14 | An ultrahigh responsivity self-powered solar-blind photodetector based on a centimeter-sized In ₂ Ga ₂ O ₃ /polyaniline heterojunction. Nanoscale, 2020, 12, 1406-1413. | 2.8 | 76 |
| 15 | Simultaneous Enhancement of Interfacial Stability and Kinetics of Single-Crystal LiNi _{0.6} Mn _{0.2} Co _{0.2} O ₂ through Optimized Surface Coating and Doping. Nano Letters, 2020, 20, 8832-8840. | 4.5 | 86 |
| 16 | Low temperature atomic layer deposition of GaOxNy thin film on III-GaN:Mg for UV photodetector. Applied Physics Letters, 2020, 117, . | 1.5 | 8 |
| 17 | High Responsivity and High Rejection Ratio of Self-Powered Solar-Blind Ultraviolet Photodetector Based on PEDOT:PSS/In ₂ Ga ₂ O ₃ Organic/Inorganic p-n Junction. Journal of Physical Chemistry Letters, 2019, 10, 6850-6856. | 2.1 | 113 |
| 18 | Postannealed Structural Relaxation and Phase Evolution of Quaternary Alloy BeMgZnO. ACS Applied Electronic Materials, 2019, 1, 2061-2068. | 2.0 | 3 |

| # | ARTICLE | IF | CITATIONS |
|----|---|------|-----------|
| 19 | Electrically driven plasmon-exciton coupled random lasing in ZnO metal-semiconductor-metal devices. <i>Applied Surface Science</i> , 2018, 439, 525-532. | 3.1 | 10 |
| 20 | Solution-Processed Transparent Self-Powered p-CuZnS/n-ZnO UV Photodiode. <i>Physica Status Solidi - Rapid Research Letters</i> , 2018, 12, 1700381. | 1.2 | 54 |
| 21 | A Real-Time Wearable UV-Radiation Monitor based on a High-Performance p-CuZnS/n-TiO ₂ Photodetector. <i>Advanced Materials</i> , 2018, 30, e1803165. | 11.1 | 300 |
| 22 | Self-Powered n-SnO ₂ /p-CuZnS Core-Shell Microwire UV Photodetector with Optimized Performance. <i>Advanced Optical Materials</i> , 2018, 6, 1800213. | 3.6 | 83 |
| 23 | Back-to-back symmetric Schottky type UVA photodetector based on ternary alloy BeZnO. <i>Journal of Materials Chemistry C</i> , 2018, 6, 7776-7782. | 2.7 | 21 |
| 24 | One-Step Hydrothermal Synthesis of ZnS Quantum Dots-Reduced Graphene Oxide Composites with Enhanced Photocatalytic Activity. <i>Physica Status Solidi (A) Applications and Materials Science</i> , 2018, 215, 1800082. | 0.8 | 13 |
| 25 | UV Photodetectors Based on BiOCl Nanosheet Arrays: The Effects of Morphologies and Electrode Configurations. <i>Small</i> , 2018, 14, e1801611. | 5.2 | 38 |
| 26 | Resonant Raman scattering study of Be _x Zn _{1-x} O thin films grown on sapphire by molecular beam epitaxy. <i>International Journal of Modern Physics B</i> , 2017, 31, 1744067. | 1.0 | 2 |
| 27 | An Ultrahigh Responsivity (9.7 mA W ⁻¹) Self-Powered Solar-Blind Photodetector Based on Individual ZnO/Ga ₂ O ₃ Heterostructures. <i>Advanced Functional Materials</i> , 2017, 27, 1700264. | 7.8 | 616 |
| 28 | Highly Desirable Photodetectors Derived from Versatile Plasmonic Nanostructures. <i>Advanced Functional Materials</i> , 2017, 27, 1704181. | 7.8 | 54 |
| 29 | Novel BeZnO Based Self-Powered Dual-Color UV Photodetector Realized via a One-Step Fabrication Method. <i>Laser and Photonics Reviews</i> , 2017, 11, 1700222. | 4.4 | 53 |
| 30 | Self-Powered Ultraviolet Photodetectors Driven by Built-In Electric Field. <i>Small</i> , 2017, 13, 1701687. | 5.2 | 245 |
| 31 | Electrically driven deep ultraviolet MgZnO lasers at room temperature. <i>Scientific Reports</i> , 2017, 7, 2677. | 1.6 | 30 |
| 32 | Realization of deep ultraviolet random lasing in MgZnO metal-semiconductor-metal devices. , 2016, , . | | 0 |
| 33 | Enhanced Exciton Binding Energy of ZnO by Long-Distance Perturbation of Doped Be Atoms. <i>Journal of Physical Chemistry Letters</i> , 2016, 7, 1484-1489. | 2.1 | 25 |
| 34 | Comparative study on beryllium and magnesium as a co-doping element for ZnO:N. <i>Chinese Physics B</i> , 2016, 25, 066106. | 0.7 | 3 |
| 35 | Controlled growth of epitaxial wurtzite BeMgZnO alloy films and two microscopic origins of Be-Mg mutual stabilizing mechanism. <i>Journal of Alloys and Compounds</i> , 2015, 631, 355-359. | 2.8 | 11 |
| 36 | The role of Be incorporation in the modulation of the N doping ZnO. <i>Journal of Alloys and Compounds</i> , 2015, 622, 719-724. | 2.8 | 16 |

| # | ARTICLE | IF | CITATIONS |
|----|--|-----|-----------|
| 37 | Understanding the origin of phase segregation of nano-crystalline in a $\text{Be}_x\text{Zn}_{1-x}\text{O}$ random alloy: a novel phase of $\text{Be}_{1/3}\text{Zn}_{2/3}\text{O}$. <i>Nanoscale</i> , 2015, 7, 9852-9858. | 2.8 | 7 |
| 38 | Phase evolution, bandgap engineering and p-type conduction in undoped/N-doped $\text{Be}_x\text{Zn}_{1-x}\text{O}$ alloy epitaxial films. <i>Journal of Alloys and Compounds</i> , 2014, 616, 505-509. | 2.8 | 15 |
| 39 | Grain boundary barrier modification due to coupling effect of crystal polar field and water molecular dipole in ZnO-based structures. <i>Applied Physics Letters</i> , 2014, 104, 242114. | 1.5 | 5 |
| 40 | High-performance zero-bias ultraviolet photodetector based on p-GaN/n-ZnO heterojunction. <i>Applied Physics Letters</i> , 2014, 105, . | 1.5 | 82 |
| 41 | The wurtzite-“rocksalt” phase transition for a $\text{Be}_x\text{Mg}_y\text{Zn}_{1-x-y}\text{O}$ alloy: Be content vs Mg content. <i>Journal of Alloys and Compounds</i> , 2014, 608, 197-201. | 2.8 | 6 |
| 42 | Well-controlled wet etching of ZnO films using hydrogen peroxide solution. <i>Applied Surface Science</i> , 2014, 292, 34-38. | 3.1 | 17 |
| 43 | Wide Range Bandgap Modulation Based on ZnO-based Alloys and Fabrication of Solar Blind UV Detectors with High Rejection Ratio. <i>ACS Applied Materials & Interfaces</i> , 2014, 6, 14152-14158. | 4.0 | 55 |
| 44 | The modulation of grain boundary barrier in ZnMgO/ZnO heterostructure by surface polar liquid. <i>Scientific Reports</i> , 2014, 4, 4185. | 1.6 | 12 |
| 45 | Suppression of oxygen vacancies in Be alloyed ZnO. <i>Journal of Alloys and Compounds</i> , 2013, 577, 179-182. | 2.8 | 15 |
| 46 | Structure and optical properties of ternary alloy BeZnO and quaternary alloy BeMgZnO films growth by molecular beam epitaxy. <i>Applied Surface Science</i> , 2013, 274, 341-344. | 3.1 | 35 |
| 47 | Solar-blind wurtzite MgZnO alloy films stabilized by Be doping. <i>Journal Physics D: Applied Physics</i> , 2013, 46, 245103. | 1.3 | 31 |
| 48 | Formation behavior of $\text{Be}_x\text{Zn}_{1-x}\text{O}$ alloys grown by plasma-assisted molecular beam epitaxy. <i>Applied Physics Letters</i> , 2013, 102, . | 1.5 | 31 |
| 49 | Temperature-dependent structural relaxation of BeZnO alloys. <i>Applied Physics Letters</i> , 2013, 103, . | 1.5 | 27 |
| 50 | Stabilization of p-type dopant nitrogen in BeZnO ternary alloy epitaxial thin films. <i>Journal Physics D: Applied Physics</i> , 2012, 45, 455101. | 1.3 | 19 |
| 51 | ZnO film with ultra-low background electron concentration grown by plasma-assisted MBE using Mg film as the buffer layer. <i>Materials Research Bulletin</i> , 2012, 47, 2673-2675. | 2.7 | 16 |