

# Wei Zheng

## List of Publications by Year in descending order

Source: <https://exaly.com/author-pdf/9254199/publications.pdf>

Version: 2024-02-01

124  
papers

4,578  
citations

126907

33  
h-index

114465

63  
g-index

131  
all docs

131  
docs citations

131  
times ranked

3426  
citing authors

| #  | ARTICLE   | IF   | CITATIONS |
|----|---|------|-----------|
| 1  | Gallium oxide solar-blind ultraviolet photodetectors: a review. <i>Journal of Materials Chemistry C</i> , 2019, 7, 8753-8770.   | 5.5  | 353       |
| 2  | All-inorganic CsCu <sub>2</sub> I <sub>3</sub> Single Crystal with High PLQY (≈15.7%) Intrinsic White-Light Emission via Strongly Localized 1D Excitonic Recombination. <i>Advanced Materials</i> , 2019, 31, e1905079.   | 21.0 | 229       |
| 3  | Low-Dimensional Structure Vacuum-Ultraviolet Sensitive (<math>\lambda</math> <math>\approx</math> 200 nm) Photodetector with Fast Response Speed Based on High-Quality AlN Micro/Nanowire. <i>Advanced Materials</i> , 2015, 27, 3921-3927.                           | 21.0 | 208       |
| 4  | Vacuum-Ultraviolet Photovoltaic Detector. <i>ACS Nano</i> , 2018, 12, 425-431.  | 14.6 | 193       |
| 5  | Synthesis of two-dimensional $\text{In}^{2+}\text{-Ga}_2\text{O}_3$ nanosheets for high-performance solar blind photodetectors. <i>Journal of Materials Chemistry C</i> , 2014, 2, 3254-3259.   | 5.5  | 167       |
| 6  | High-Performance Graphene/ $\text{In}^{2+}\text{-Ga}_2\text{O}_3$ Heterojunction Deep-Ultraviolet Photodetector with Hot-Electron Excited Carrier Multiplication. <i>ACS Applied Materials &amp; Interfaces</i> , 2018, 10, 22419-22426.                              | 8.0  | 162       |
| 7  | TMK1-mediated auxin signalling regulates differential growth of the apical hook. <i>Nature</i> , 2019, 568, 240-243.  | 27.8 | 156       |
| 8  | High quality $\text{In}^{2+}\text{-Ga}_2\text{O}_3$ film grown with N <sub>2</sub> O for high sensitivity solar-blind-ultraviolet photodetector with fast response speed. <i>Journal of Alloys and Compounds</i> , 2018, 735, 150-154.                                | 5.5  | 142       |
| 9  | Vacuum-ultraviolet photodetectors. <i>Photonix</i> , 2020, 1, .   | 13.5 | 126       |
| 10 | Dual Self-Trapped Exciton Emission with Ultrahigh Photoluminescence Quantum Yield in CsCu <sub>2</sub> I <sub>3</sub> and Cs <sub>3</sub> Cu <sub>2</sub> I <sub>5</sub> Perovskite Single Crystals. <i>Journal of Physical Chemistry C</i> , 2020, 124, 20469-20476. | 3.1  | 108       |
| 11 | Vacuum-Ultraviolet Photodetection in Few-Layered h-BN. <i>ACS Applied Materials &amp; Interfaces</i> , 2018, 10, 27116-27123.   | 8.0  | 106       |
| 12 | Ultrahigh EQE (15%) Solar-Blind UV Photovoltaic Detector with Organic-Inorganic Heterojunction via Dual Built-in Fields Enhanced Photogenerated Carrier Separation Efficiency Mechanism. <i>Advanced Functional Materials</i> , 2019, 29, 1900935.                    | 14.9 | 106       |
| 13 | Vacuum-Ultraviolet Photovoltaic Detector with Improved Response Speed and Responsivity via Heating Annihilation Trap State Mechanism. <i>Advanced Optical Materials</i> , 2018, 6, 1800697.   | 7.3  | 102       |
| 14 | High-Crystalline 2D Layered PbI <sub>2</sub> with Ultrasoft Surface: Liquid-Phase Synthesis and Application of High-Speed Photon Detection. <i>Advanced Electronic Materials</i> , 2016, 2, 1600291.  | 5.1  | 98        |
| 15 | Vacuum-Ultraviolet Photon Detections. <i>IScience</i> , 2020, 23, 101145.   | 4.1  | 98        |
| 16 | Growth, characterization and optoelectronic applications of pure-phase large-area CsPb <sub>2</sub> Br <sub>5</sub> flake single crystals. <i>Journal of Materials Chemistry C</i> , 2018, 6, 446-451.  | 5.5  | 88        |
| 17 | Graphene Interdigital Electrodes for Improving Sensitivity in a Ga <sub>2</sub> O <sub>3</sub> :Zn Deep-Ultraviolet Photoconductive Detector. <i>ACS Applied Materials &amp; Interfaces</i> , 2019, 11, 1013-1020.  | 8.0  | 86        |
| 18 | An ultrafast-temporally-responsive flexible photodetector with high sensitivity based on high-crystallinity organic-inorganic perovskite nanoflake. <i>Nanoscale</i> , 2017, 9, 12718-12726.  | 5.6  | 83        |

| #  | ARTICLE  | IF   | CITATIONS |
|----|--|------|-----------|
| 19 | All-silicon photovoltaic detectors with deep ultraviolet selectivity. <i>PhotonIX</i> , 2020, 1, .   | 13.5 | 71        |
| 20 | Vacuum Ultraviolet Photodetection in Two-Dimensional Oxides. <i>ACS Applied Materials &amp; Interfaces</i> , 2018, 10, 20696-20702.  | 8.0  | 68        |
| 21 | Raman tensor of AlN bulk single crystal. <i>Photonics Research</i> , 2015, 3, 38.  | 7.0  | 66        |
| 22 | Balanced Photodetection in One-Step Liquid-Phase-Synthesized CsPbBr <sub>3</sub> Micro-/Nanoflake Single Crystals. <i>ACS Applied Materials &amp; Interfaces</i> , 2018, 10, 1865-1870.              | 8.0  | 60        |
| 23 | Aqueous Solution Growth of Millimeter-Sized Nongreen-Luminescent Wide Bandgap Cs <sub>4</sub> PbBr <sub>6</sub> Bulk Crystal. <i>Crystal Growth and Design</i> , 2018, 18, 6393-6398.                | 3.0  | 59        |
| 24 | Vacuum ultraviolet photovoltaic arrays. <i>Photonics Research</i> , 2019, 7, 98.   | 7.0  | 57        |
| 25 | Ultrafast Photovoltaic-Type Deep Ultraviolet Photodetectors Using Hybrid Zero-/Two-Dimensional Heterojunctions. <i>ACS Applied Materials &amp; Interfaces</i> , 2019, 11, 8412-8418.                 | 8.0  | 53        |
| 26 | Vacuum-Ultraviolet-Oriented van der Waals Photovoltaics. <i>ACS Photonics</i> , 2019, 6, 1869-1875.  | 6.6  | 49        |
| 27 | Ultrawide Band Gap Oxide Nanodots ( $E_g$ ; 4.8 eV) for a High-Performance Deep Ultraviolet Photovoltaic Detector. <i>ACS Applied Materials &amp; Interfaces</i> , 2020, 12, 6030-6036.              | 8.0  | 39        |
| 28 | Photophysics in Cs <sub>3</sub> Cu <sub>2</sub> I <sub>5</sub> and CsCu <sub>2</sub> I <sub>3</sub> . <i>Materials Chemistry Frontiers</i> , 2021, 5, 7088-7107.                                     | 5.9  | 39        |
| 29 | Enhanced performance of solar-blind ultraviolet photodetector based on Mg-doped amorphous gallium oxide film. <i>Vacuum</i> , 2019, 159, 204-208.  | 3.5  | 38        |
| 30 | Ultrafast (600Âps) Î±-ray scintillators. <i>PhotonIX</i> , 2022, 3, .  | 13.5 | 38        |
| 31 | Oxides/graphene heterostructure for deep-ultraviolet photovoltaic photodetector. <i>Carbon</i> , 2019, 147, 427-433.   | 10.3 | 37        |
| 32 | Ultra-Robust Deep-UV Photovoltaic Detector Based on Graphene/(AlGa)2O3/GaN with High-Performance in Temperature Fluctuations. <i>ACS Applied Materials &amp; Interfaces</i> , 2019, 11, 48071-48078. | 8.0  | 36        |
| 33 | Ultrawide-Bandgap Amorphous MgGaO: Nonequilibrium Growth and Vacuum Ultraviolet Application. <i>Advanced Optical Materials</i> , 2019, 7, 1801272.   | 7.3  | 36        |
| 34 | Amorphous-MgGaO Film Combined with Graphene for Vacuum-Ultraviolet Photovoltaic Detector. <i>ACS Applied Materials &amp; Interfaces</i> , 2018, 10, 42681-42687.                                     | 8.0  | 33        |
| 35 | Ultra-high Photovoltage (2.45 V) Forming in Graphene Heterojunction via Quasi-Fermi Level Splitting Enhanced Effect. <i>IScience</i> , 2020, 23, 100818.   | 4.1  | 33        |
| 36 | Laser Tuning in van der Waals Crystals. <i>ACS Nano</i> , 2018, 12, 2001-2007.   | 14.6 | 31        |

| #  | ARTICLE   | IF   | CITATIONS |
|----|---|------|-----------|
| 37 | High-Performance Solar Blind Ultraviolet Photodetector Based on Single Crystal Orientation Mg-Alloyed Ga <sub>2</sub> O <sub>3</sub> Film Grown by a Nonequilibrium MOCVD Scheme. ACS Applied Electronic Materials, 2019, 1, 1653-1659. | 4.3  | 31        |
| 38 | X-ray radiation excited ultralong (>20,000 seconds) intrinsic phosphorescence in aluminum nitride single-crystal scintillators. Nature Communications, 2020, 11, 4351.  | 12.8 | 31        |
| 39 | Balanced Photodetection in Mixed-Dimensional Phototransistors Consisting of CsPbBr <sub>3</sub> Quantum Dots and Few-Layer MoS <sub>2</sub> . ACS Applied Nano Materials, 2019, 2, 2599-2605.   | 5.0  | 30        |
| 40 | Temperature-Dependent Phonon Shifts in van der Waals Crystals. Journal of Physical Chemistry Letters, 2021, 12, 5261-5270.  | 4.6  | 29        |
| 41 | Raman tensor of layered black phosphorus. Photonix, 2020, 1, .  | 13.5 | 29        |
| 42 | Raman tensor of layered MoS <sub>2</sub> . Optics Letters, 2020, 45, 1313.  | 3.3  | 29        |
| 43 | Strongly anisotropic behavior of A <sub>1</sub> (TO) phonon mode in bulk AlN. Journal of Alloys and Compounds, 2014, 584, 374-376.  | 5.5  | 28        |
| 44 | Elucidation of phase difference in Raman tensor formalism. Photonics Research, 2018, 6, 709.  | 7.0  | 28        |
| 45 | Raman Tensor of van der Waals MoSe <sub>2</sub> . Journal of Physical Chemistry Letters, 2020, 11, 4311-4316.   | 4.6  | 28        |
| 46 | Vacuum Ultraviolet (120–200 nm) Avalanche Photodetectors. Advanced Optical Materials, 2022, 10, .   | 7.3  | 27        |
| 47 | A Strategy of Transparent Conductive Oxide for UV Focal Plane Array Detector: Two-Step Thermodynamic Process. Advanced Electronic Materials, 2016, 2, 1600320.  | 5.1  | 25        |
| 48 | High-sensitive and fast response to 255 nm deep-UV light of CH <sub>3</sub> NH <sub>3</sub> PbX <sub>3</sub> (X = Cl, Br, I) bulk crystals. Royal Society Open Science, 2018, 5, 180905.  | 2.4  | 25        |
| 49 | Raman spectroscopy regulation in van der Waals crystals. Photonics Research, 2018, 6, 991.  | 7.0  | 25        |
| 50 | Broadband graphene-based photoacoustic microscopy with high sensitivity. Nanoscale, 2018, 10, 8606-8614.  | 5.6  | 24        |
| 51 | Amorphous boron nitride for vacuum-ultraviolet photodetection. Applied Physics Letters, 2020, 117, .  | 3.3  | 24        |
| 52 | Anisotropic temperature dependence of optical phonons in layered Pb <sub>2</sub> . Journal of Raman Spectroscopy, 2018, 49, 775-779.  | 2.5  | 23        |
| 53 | One-step on-chip synthesis of highly-luminescent Cs <sub>4</sub> PbBr <sub>6</sub> microcrystal. Materials Letters, 2018, 232, 118-121.   | 2.6  | 23        |
| 54 | Raman Tensor of WSe <sub>2</sub> via Angle-Resolved Polarized Raman Spectroscopy. Journal of Physical Chemistry C, 2019, 123, 29337-29342.  | 3.1  | 23        |

| #  | ARTICLE   | IF  | CITATIONS |
|----|---|-----|-----------|
| 55 | Near vacuum-ultraviolet aperiodic oscillation emission of AlN films. <i>Science Bulletin</i> , 2020, 65, 827-831.   | 9.0 | 21        |
| 56 | Real-Time Tracking of Emitter Generation in a Zero-Dimensional Perovskite. <i>Chemistry of Materials</i> , 2021, 33, 3721-3728.   | 6.7 | 20        |
| 57 | Ultrawide-bandgap (6.14 eV) (AlGa)2O3/Ga2O3 heterostructure designed by lattice matching strategy for highly sensitive vacuum ultraviolet photodetection. <i>Science China Materials</i> , 2021, 64, 3027-3036.   | 6.3 | 20        |
| 58 | In-plane enhanced epitaxy for step-flow AlN yielding a high-performance vacuum-ultraviolet photovoltaic detector. <i>CrystEngComm</i> , 2020, 22, 654-659.  | 2.6 | 19        |
| 59 | Raman tensor of layered black arsenic. <i>Journal of Raman Spectroscopy</i> , 2020, 51, 1324-1330.  | 2.5 | 19        |
| 60 | Pt/ZnGa <sub>2</sub> O <sub>4</sub> /p-Si Back-to-Back Heterojunction for Deep UV Sensitive Photovoltaic Photodetection with Ultralow Dark Current and High Spectral Selectivity. <i>ACS Applied Materials &amp; Interfaces</i> , 2022, 14, 5653-5660.          | 8.0 | 19        |
| 61 | Strong Electron-Phonon Coupling in $\hat{\Gamma}^2$ -Ga <sub>2</sub> O <sub>3</sub> : A Huge Broadening of Self-Trapped Exciton Emission and a Significant Red Shift of the Direct Bandgap. <i>Journal of Physical Chemistry Letters</i> , 2022, 13, 3053-3058. | 4.6 | 19        |
| 62 | ZnGa <sub>2</sub> O <sub>4</sub> deep-ultraviolet photodetector based on Si substrate. <i>Materials Letters</i> , 2021, 283, 128805.  | 2.6 | 18        |
| 63 | Lu <sub>2</sub> O <sub>3</sub> : A promising ultrawide bandgap semiconductor for deep UV photodetector. <i>Applied Physics Letters</i> , 2021, 118, .   | 3.3 | 18        |
| 64 | Experimental Evidence on Stability of N Substitution for O in ZnO Lattice. <i>Journal of Physical Chemistry Letters</i> , 2020, 11, 8901-8907.  | 4.6 | 17        |
| 65 | Raman tensor of layered WS <sub>2</sub> . <i>Science China Materials</i> , 2020, 63, 1848-1854.   | 6.3 | 17        |
| 66 | Raman Tensor of Layered Td-WTe <sub>2</sub> . <i>Journal of Physical Chemistry C</i> , 2020, 124, 16596-16603.  | 3.1 | 16        |
| 67 | Self-assembled eco-friendly metal halide heterostructures for bright and color-tunable white radioluminescence. <i>Cell Reports Physical Science</i> , 2021, 2, 100437.   | 5.6 | 16        |
| 68 | High-Efficiency Down-Conversion Radiation Fluorescence and Ultrafast Photoluminescence (1.2 ns) at the Interface of Hybrid Cs <sub>4</sub> PbBr <sub>6</sub> CsI Nanocrystals. <i>Journal of Physical Chemistry Letters</i> , 2021, 12, 7342-7349.              | 4.6 | 16        |
| 69 | Brushed Crystallized Ultrathin Oxides: Recrystallization and Deep-Ultraviolet Imaging Application. <i>ACS Applied Electronic Materials</i> , 2019, 1, 2166-2173.  | 4.3 | 15        |
| 70 | Sensitive and Fast Direct Conversion X-ray Detectors Based on Single-Crystalline HgI <sub>2</sub> Photoconductor and ZnO Nanowire Vacuum Diode. <i>Advanced Materials Technologies</i> , 2020, 5, 1901108.  | 5.8 | 15        |
| 71 | Crystal Growth of $\hat{\Gamma}^2$ -HgI <sub>2</sub> by the Temperature Difference Method for High Sensitivity X-ray Detection. <i>Crystal Growth and Design</i> , 2015, 15, 3383-3387.   | 3.0 | 14        |
| 72 | Raman Tensor of Layered SnS <sub>2</sub> . <i>Journal of Physical Chemistry Letters</i> , 2020, 11, 10094-10099.  | 4.6 | 14        |

| #  | ARTICLE  | IF  | CITATIONS |
|----|--|-----|-----------|
| 73 | Pt/(InGa) <sub>2</sub> O <sub>3</sub> /In-Si Heterojunction-Based Solar-Blind Ultraviolet Photovoltaic Detectors with an Ideal Absorption Cutoff Edge of 280 nm. ACS Applied Materials & Interfaces, 2021, 13, 44568-44576.  | 8.0 | 14        |
| 74 | Ternary compound MgTiO <sub>3</sub> combined with graphene for solar-blind deep ultraviolet photodetection. Journal of Alloys and Compounds, 2022, 911, 165031.  | 5.5 | 14        |
| 75 | A possible high-mobility signal in bulk MoTe <sub>2</sub> : Temperature independent weak phonon decay. AIP Advances, 2016, 6, .  | 1.3 | 13        |
| 76 | Efficient sky-blue radioluminescence of microcrystalline Cs <sub>3</sub> Cu <sub>2</sub> I <sub>5</sub> based large-scale eco-friendly composite scintillators for high-sensitive ionizing radiation detection. Materials Chemistry Frontiers, 2021, 5, 4739-4745. | 5.9 | 13        |
| 77 | Anomalous Blue Shift of Exciton Luminescence in Diamond. Nano Letters, 2022, 22, 1604-1608.  | 9.1 | 12        |
| 78 | Nanosecond and Highly Sensitive Scintillator Based on All-Inorganic Perovskite Single Crystals. ACS Applied Materials & Interfaces, 2022, 14, 1489-1495.   | 8.0 | 12        |
| 79 | Extremely High Photovoltage (3.16 V) Achieved in Vacuum-Ultraviolet-Oriented van der Waals Photovoltaics. ACS Photonics, 2022, 9, 2101-2108.   | 6.6 | 12        |
| 80 | Lattice deformation of wurtzite Mg Zn <sub>1-x</sub> O alloys: An extended X-ray absorption fine structure study. Journal of Alloys and Compounds, 2014, 582, 157-160.   | 5.5 | 11        |
| 81 | Bandgap Engineering of ZrGaO Films for Deep-Ultraviolet Detection. IEEE Electron Device Letters, 2021, 42, 895-898.  | 3.9 | 10        |
| 82 | Band alignment of MAPb(1-x)Br <sub>x</sub> thin films by vacuum deposition. Applied Physics Letters, 2016, 109, .  | 3.3 | 9         |
| 83 | Silicon Nitride Deep-Ultraviolet Photoconductive Detector. IEEE Electron Device Letters, 2020, 41, 1316-1319.  | 3.9 | 9         |
| 84 | Multistep Thermodynamics Yielding Deep Ultraviolet Transparent Conductive Ga <sub>2</sub> O <sub>3</sub> Films. Journal of Physical Chemistry C, 2020, 124, 16722-16727.   | 3.1 | 9         |
| 85 | Identification of TO and LO phonons in cubic natBP, 10BP and 11BP crystals. Applied Physics Letters, 2021, 118, .  | 3.3 | 9         |
| 86 | Quasiphoton polaritons. Heliyon, 2020, 6, e05277.  | 3.2 | 8         |
| 87 | Ultra-Long Van Der Waals CdBr <sub>2</sub> Micro/Nanobelts. Small Methods, 2020, 4, 2000501.   | 8.6 | 8         |
| 88 | Extraction of carrier concentration and mobility of ZnO by mid-infrared reflectance spectroscopy. Journal of Luminescence, 2021, 239, 118365.  | 3.1 | 8         |
| 89 | Deep-ultraviolet aperiodic-oscillation emission of AlGaIn films. Optics Letters, 2020, 45, 1719.   | 3.3 | 8         |
| 90 | Effects of photonic crystal structures on the imaging properties of a ZnO:Ga image converter. Optics Letters, 2018, 43, 5647.  | 3.3 | 8         |

| #   | ARTICLE   | IF   | CITATIONS |
|-----|---|------|-----------|
| 91  | Confronting the Air Instability of Cesium Tin Halide Perovskites by Metal Ion Incorporation. <i>Journal of Physical Chemistry Letters</i> , 2021, 12, 10996-11004.  | 4.6  | 8         |
| 92  | A Solar-Blind Ultraviolet Photodetector With Graphene/MgZnO/GaN Vertical Structure. <i>Frontiers in Materials</i> , 2021, 8, .  | 2.4  | 8         |
| 93  | Temperature-dependent optical phonon shifts and splitting in cubic $\text{AB}_2\text{O}_4$ , $\text{AB}_2\text{S}_4$ , and $\text{AB}_2\text{X}_4$ crystals. <i>Optics Letters</i> , 2021, 46, 4844.  | 3.3  | 7         |
| 94  | Ligand Tailoring Oxide Colloidal Quantum Dots for Silicon-Integrated Ultraviolet Photodiode. <i>Advanced Electronic Materials</i> , 2020, 6, 1901238.   | 5.1  | 7         |
| 95  | Lu-Alloyed $\text{SnO}_x$ Films With Tunable Optical Bandgap for Deep Ultraviolet Detection. <i>IEEE Electron Device Letters</i> , 2022, 43, 84-87.   | 3.9  | 7         |
| 96  | Study of $\text{Mg}_x\text{Zn}_{1-x}\text{O}$ Alloys ( $0 < x < 0.15$ ) by X-Ray Absorption Spectroscopy. <i>Advanced Materials Research</i> , 2013, 663, 361-365.  | 0.3  | 6         |
| 97  | Photodetectors: Low-Dimensional Structure Vacuum-Ultraviolet Sensitive ( $\lambda < 200$ nm) Photodetector with Fast Response Speed Based on High-Quality AlN Micro/Nanowire (Adv. Mater.) Tj ETQq1 1 Q.7.04314 egBT /Over                      |      |           |
| 98  | Dual-channel ultra-narrowband mid-infrared filter based on bilayer metallic grating. <i>Optik</i> , 2019, 199, 163352.  | 2.9  | 6         |
| 99  | 2D van der Waals Molecular Crystal $\text{HgI}_2$ : Economical, Rapid, and Substrate-Free Liquid-Phase Synthesis and Strong In-Plane Optical Anisotropy. <i>Small</i> , 2021, 17, e2005368.   | 10.0 | 6         |
| 100 | Laser Tuning in Layered $\text{h-BN}$ Crystals. <i>Journal of Physical Chemistry Letters</i> , 2021, 12, 3795-3801.   | 4.6  | 6         |
| 101 | A CTAB-mediated antisolvent vapor route to shale-like $\text{Cs}_4\text{PbBr}_6$ microplates showing an eminent photoluminescence. <i>RSC Advances</i> , 2020, 10, 10023-10029.   | 3.6  | 5         |
| 102 | High-Pressure $\text{O}_2$ Annealing Enhances the Crystallinity of Ultrawide-Band-Gap Sesquioxides Combined with Graphene for Vacuum-Ultraviolet Photovoltaic Detection. <i>ACS Applied Materials &amp; Interfaces</i> , 2021, 13, 16660-16668. | 8.0  | 5         |
| 103 | Fermi-Surface Modulation of Graphene Synergistically Enhances the Open-Circuit Voltage and Quantum Efficiency of Photovoltaic Solar-Blind Ultraviolet Detectors. <i>Journal of Physical Chemistry Letters</i> , 2021, 12, 11106-11113.          | 4.6  | 5         |
| 104 | Ultra-Hard (41 GPa) Isotopic Pure $\text{SiC}$ Semiconductor Microwires for Flexible Photodetection and Pressure Sensing. <i>ACS Nano</i> , 2022, 16, 4004-4013.  | 14.6 | 5         |
| 105 | Ultrahigh EQE (38.1%) Deep-UV Photodiode with Chemically Doped Graphene as Hole Transport Layer. <i>Advanced Optical Materials</i> , 2022, 10, .  | 7.3  | 5         |
| 106 | Low-Temperature Solution-Processed $\text{Lu}_2\text{O}_3$ Films for Deep-UV Photovoltaic Detectors With High Sensitivity. <i>IEEE Electron Device Letters</i> , 2022, 43, 1295-1298.   | 3.9  | 5         |
| 107 | Amorphous $(\text{LuGa})_2\text{O}_3$ film for deep-ultraviolet photovoltaic detector. <i>Materials Letters</i> , 2021, 297, 129980.  | 2.6  | 4         |
| 108 | Micron-Thick Hexagonal Boron Nitride Crystalline Film for Vacuum Ultraviolet Photodetection with Improved Sensitivity and Spectral Response. <i>ACS Applied Electronic Materials</i> , 2021, 3, 3774-3780.                                      | 4.3  | 4         |

| #   | ARTICLE  | IF  | CITATIONS |
|-----|--|-----|-----------|
| 109 | Effect of temperature distribution on growth habit of AlN crystal. Shenzhen Daxue Xuebao (Ligong) Tj ETQq1 1 0.784314 rgBT /Overl  | 0.2 | 4         |
| 110 | Semipolar (11 $\bar{2}$ ) AlN Grown on m-Plane Sapphire by Flow-Rate Modulation Epitaxy for Vacuum-Ultraviolet Photodetection. Crystal Growth and Design, 2022, 22, 1731-1737.   | 3.0 | 4         |
| 111 | Manganese $K_{\alpha}$ - and $L_{\alpha}$ -Edge X-Ray Absorption Fine Structure Study of Zn <sub>1-x</sub> Mn <sub>x</sub> Te. Advanced Materials Research, 2013, 634-638, 2489-2492.  | 0.3 | 3         |
| 112 | 2D Materials: High-Crystalline 2D Layered PbI <sub>2</sub> with Ultrasoother Surface: Liquid-Phase Synthesis and Application of High-Speed Photon Detection (Adv. Electron. Mater. 11/2016). Advanced Electronic Materials, 2016, 2, . | 5.1 | 3         |
| 113 | Laser tuning in AlN single crystals. Science China Materials, 2021, 64, 2877-2882.   | 6.3 | 3         |
| 114 | Super-hard $\alpha$ -Tanghulu $\alpha$ -cubic BP microwire covered with amorphous SiO <sub>2</sub> balls. Heliyon, 2021, 7, e08300.  | 3.2 | 3         |
| 115 | Growth of $\beta$ -Type AlN Crystals by C and Si Codoping. Advanced Materials Research, 0, 306-307, 246-250.   | 0.3 | 2         |
| 116 | Raman tensor of graphite: Symmetry of G, D and $D_2$ phonons. Science China Materials, 2022, 65, 268-272.  | 6.3 | 2         |
| 117 | Narrow band emission from layered $\pm$ -HgI <sub>2</sub> micro-/nano-sheets with high Huang-Rhys factor. Journal of Luminescence, 2021, 237, 118161.  | 3.1 | 2         |
| 118 | Observation of negative differential resistance in SiO <sub>2</sub> /Si heterostructures. Cell Reports Physical Science, 2021, 2, 100622.  | 5.6 | 2         |
| 119 | Extracting carrier concentration of black c-BN single crystal by mid-infrared reflectance spectroscopy. Vacuum, 2022, 202, 111132.   | 3.5 | 2         |
| 120 | Effect of Annealing Temperature on Solar-Blind Ultraviolet Photodetectors Based on Solution-Processed Scandium Oxide Films. IEEE Electron Device Letters, 2022, 43, 1507-1510.   | 3.9 | 2         |
| 121 | Performance-enhanced CsPbBr <sub>3</sub> /HfO <sub>2</sub> /Si Heterostructure Optoelectronics through the Tunneling Effect. Advanced Materials Interfaces, 2021, 8, 2100279.  | 3.7 | 1         |
| 122 | Correction to $\alpha$ -Vacuum-Ultraviolet-Oriented van der Waals Photovoltaics $\alpha$ . ACS Photonics, 2019, 6, 3338-3338.  | 6.6 | 0         |
| 123 | Doped metasurfaces: Etched structure-free films based on regular spatially doped semiconductor and compatible with general optical ones. IScience, 2021, 24, 102907.   | 4.1 | 0         |
| 124 | Super-Hard $\alpha$ -Tanghulu $\alpha$ -Cubic BP Microrod Covered with Amorphous SiO <sub>2</sub> Balls. SSRN Electronic Journal, 0, , .   | 0.4 | 0         |