

Lingyu Wan

List of Publications by Year in descending order

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50
papers

604
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times ranked

518
citing authors

| # | ARTICLE | IF | CITATIONS |
|----|--|------|-----------|
| 1 | Flower-like triboelectric nanogenerator for blue energy harvesting with six degrees of freedom. <i>Nano Energy</i> , 2022, 93, 106796. | 16.0 | 37 |
| 2 | Interferometrical single-molecule localization based on dynamic PSF engineering. <i>Optics Letters</i> , 2022, 47, 1770. | 3.3 | 3 |
| 3 | Interaction between Water Wave and Geometrical Structures of Floating Triboelectric Nanogenerators. <i>Advanced Energy Materials</i> , 2022, 12, . | 19.5 | 20 |
| 4 | A comparative investigation of the optical properties of polar and semipolar GaN epi-films grown by metalorganic chemical vapor deposition. <i>Semiconductor Science and Technology</i> , 2022, 37, 065021. | 2.0 | 1 |
| 5 | Self-Powered Resistance-Switching Properties of Pr _{0.7} Ca _{0.3} MnO ₃ Film Driven by Triboelectric Nanogenerator. <i>Nanomaterials</i> , 2022, 12, 2199. | 4.1 | 4 |
| 6 | Carrier recombination dynamics in green InGaN-LEDs with quantum-dot-like structures. <i>Journal of Materials Science</i> , 2021, 56, 1481-1491. | 3.7 | 3 |
| 7 | Comparative spectroscopic studies of MOCVD grown AlN films on Al ₂ O ₃ and 6H-SiC. <i>Journal of Alloys and Compounds</i> , 2021, 857, 157487. | 5.5 | 28 |
| 8 | Optical and Electronic Energy Band Properties of Nb-Doped $\hat{\Gamma}^2$ -Ga ₂ O ₃ Crystals. <i>Crystals</i> , 2021, 11, 135. | 2.2 | 4 |
| 9 | Optical and structural properties of AlN thin films deposited on different faces of sapphire substrates. <i>Semiconductor Science and Technology</i> , 2021, 36, 045012. | 2.0 | 7 |
| 10 | Temperature-Dependent Optical Properties of Graphene on Si and SiO ₂ /Si Substrates. <i>Crystals</i> , 2021, 11, 358. | 2.2 | 4 |
| 11 | Multi-technique investigation of Ni-doped ZnO thin films on sapphire by metalorganic chemical vapor deposition. <i>Journal of Vacuum Science and Technology A: Vacuum, Surfaces and Films</i> , 2021, 39, 023408. | 2.1 | 3 |
| 12 | A Polymeric Bilayer Multi-Legged Soft Millirobot with Dual Actuation and Humidity Sensing. <i>Sensors</i> , 2021, 21, 1972. | 3.8 | 5 |
| 13 | Performance-Enhanced and Washable Triboelectric Air Filter Based on Polyvinylidene Fluoride/LiO ₂ Composite Nanofiber Membrane. <i>Macromolecular Materials and Engineering</i> , 2021, 306, 2100128. | 3.6 | 28 |
| 14 | Structural and electronic characteristics of Fe-doped $\hat{\Gamma}^2$ -Ga ₂ O ₃ single crystals and the annealing effects. <i>Journal of Materials Science</i> , 2021, 56, 13178. | 3.7 | 18 |
| 15 | Optical and electronic properties of (Al _{1-x} Ga _x) ₂ O ₃ /Al ₂ O ₃ (x>0.4) films grown by magnetron sputtering. <i>Journal of Alloys and Compounds</i> , 2021, 864, 158765. | 5.5 | 13 |
| 16 | Alternate-Layered MXene Composite Film-Based Triboelectric Nanogenerator with Enhanced Electrical Performance. <i>Nanoscale Research Letters</i> , 2021, 16, 81. | 5.7 | 13 |
| 17 | Dynamic piezo-phototronic effect in InGaN/GaN multiple quantum wells. <i>Superlattices and Microstructures</i> , 2021, 155, 106926. | 3.1 | 4 |
| 18 | Optical and surface properties of 3C-SiC thin epitaxial films grown at different temperatures on 4H-SiC substrates. <i>Superlattices and Microstructures</i> , 2021, 156, 106960. | 3.1 | 8 |

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|----|---|------|-----------|
| 19 | Flexible and stretchable triboelectric nanogenerator fabric for biomechanical energy harvesting and self-powered dual-mode human motion monitoring. Nano Energy, 2021, 86, 106058. | 16.0 | 147 |
| 20 | Defect controls by silicon doping in non-polar a-plane AlGaIn epi-layers. Materials Express, 2021, 11, 1466-1475. | 0.5 | 0 |
| 21 | Characterization of defect levels in $\hat{\Gamma}^2$ -Ga ₂ O ₃ single crystals doped with tantalum. CrystEngComm, 2021, 23, 2835-2841. | 2.6 | 5 |
| 22 | Dielectric and energy storage properties of Bi ₂ O ₃ -B ₂ O ₃ -SiO ₂ doped Ba _{0.85} Ca _{0.15} Zr _{0.1} Ti _{0.9} O ₃ lead-free glass-ceramics. Royal Society Open Science, 2020, 7, 191822. | 2.4 | 7 |
| 23 | Microstructure and temperature-dependence of Raman scattering properties of $\hat{\Gamma}^2$ -(Al _x Ga _{1-x}) ₂ O ₃ crystals. Superlattices and Microstructures, 2020, 140, 106469. | 3.1 | 11 |
| 24 | Temperature-dependent electrical and optical studies on nonpolar a-plane GaN thin films with various Si-doping levels. Materials Science in Semiconductor Processing, 2020, 114, 105063. | 4.0 | 5 |
| 25 | Investigation of the Optical Properties of InSb Thin Films Grown on GaAs by Temperature-Dependent Spectroscopic Ellipsometry. Journal of Applied Spectroscopy, 2019, 86, 276-282. | 0.7 | 2 |
| 26 | Evolution of the local structure and crystal phase for thin ZnGaO films grown by metal organic chemical vapor deposition. Journal of Crystal Growth, 2019, 520, 89-95. | 1.5 | 4 |
| 27 | Surface/structural characteristics and band alignments of thin Ga ₂ O ₃ films grown on sapphire by pulse laser deposition. Applied Surface Science, 2019, 479, 1246-1253. | 6.1 | 58 |
| 28 | Surface and optical properties of indium-rich InGaIn layers grown on sapphire by migration-enhanced plasma assisted metal organic chemical vapor deposition. Materials Research Express, 2019, 6, 016407. | 1.6 | 4 |
| 29 | Synchrotron Radiation X-Ray Absorption Spectroscopy and Spectroscopic Ellipsometry Studies of InSb Thin Films on GaAs Grown by Metalorganic Chemical Vapor Deposition. Advances in Materials Science and Engineering, 2018, 2018, 1-11. | 1.8 | 4 |
| 30 | Quality evaluation of homopetaxial 4H-SiC thin films by a Raman scattering study of forbidden modes. Optical Materials Express, 2018, 8, 119. | 3.0 | 13 |
| 31 | Surface, structural and optical properties of AlN thin films grown on different face sapphire substrates by metalorganic chemical vapor deposition. Applied Surface Science, 2018, 458, 972-977. | 6.1 | 28 |
| 32 | Investigation of HfO ₂ Thin Films on Si by X-ray Photoelectron Spectroscopy, Rutherford Backscattering, Grazing Incidence X-ray Diffraction and Variable Angle Spectroscopic Ellipsometry. Crystals, 2018, 8, 248. | 2.2 | 57 |
| 33 | Modelling of microcavity effect in InGaIn/GaN heterostructures for interfacial study. Materials Research Express, 2018, 5, 086201. | 1.6 | 1 |
| 34 | Influence of high-temperature AlN intermediate layer on the optical properties of MOCVD grown AlGaIn films. Materials Research Express, 2017, 4, 025903. | 1.6 | 1 |
| 35 | Adducing crystalline features from Raman scattering studies of cubic SiC using different excitation wavelengths. Journal Physics D: Applied Physics, 2017, 50, 115102. | 2.8 | 6 |
| 36 | Variation of phonon coupling factors in the photoluminescence of cadmium telluride by variable excitation power. Optical Materials Express, 2017, 7, 808. | 3.0 | 3 |

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|----|--|-----|-----------|
| 37 | Spectroscopic ellipsometry and X-ray diffraction studies on Si _{1-x} Gex/Si epilayers and superlattices. Applied Surface Science, 2017, 421, 748-754. | 6.1 | 2 |
| 38 | Spectroscopic ellipsometry studies on ZnCdO thin films with different Cd concentrations grown by pulsed laser deposition. Applied Surface Science, 2017, 421, 383-388. | 6.1 | 9 |
| 39 | Propagation and power flow of high-order three-Airy beams. Optics Communications, 2017, 405, 120-126. | 2.1 | 5 |
| 40 | Green light-emitting diodes with InGaN/GaN multiple quantum well structures: Time-resolved photoluminescence, emission dynamics and related studies. , 2016, , . | | 1 |
| 41 | X-ray absorption fine structure of ZnO thin film on Si and sapphire grown by MOCVD. , 2016, , . | | 1 |
| 42 | Low-angle optical vortex coronagraphic scatterometer. Optics Letters, 2016, 41, 4915. | 3.3 | 1 |
| 43 | On-ground simulation of optical links for free-space laser communications. Optik, 2010, 121, 263-267. | 2.9 | 10 |
| 44 | White-light imaging analysis of bi-grating systems. Journal of the Optical Society of America A: Optics and Image Science, and Vision, 2009, 26, 2336. | 1.5 | 1 |
| 45 | Series representation of the Gaussian beam far-field diffracted by annular aperture. Optik, 2008, 119, 766-768. | 2.9 | 2 |
| 46 | Diffraction properties of ultrashort pulsed beams with arbitrary temporal profiles studied with a volume holographic grating. Journal of Optics, 2007, 9, 1113-1117. | 1.5 | 2 |
| 47 | Radius of curvature measurements for laser beams: A simple method. Optik, 2006, 117, 173-176. | 2.9 | 3 |
| 48 | Collimation testing using axial intensity. Optik, 2005, 116, 356-360. | 2.9 | 0 |
| 49 | Wave-front analysis method of circular aperture sampling for collimation testing. Applied Optics, 2005, 44, 2705. | 2.1 | 7 |
| 50 | Temperature-Dependent Properties of Graphene on SiC Substrates for Triboelectric Nanogenerators. Frontiers in Materials, 0, 9, . | 2.4 | 1 |