

Liann-Be Chang

List of Publications by Year in descending order

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Version: 2024-02-01

57
papers

667
citations

687363
13
h-index

610901
24
g-index

58
all docs

58
docs citations

58
times ranked

877
citing authors

| # | ARTICLE | IF | CITATIONS |
|----|---|-----|-----------|
| 1 | Highly sensitive palladium oxide thin film extended gate FETs as pH sensor. <i>Sensors and Actuators B: Chemical</i> , 2014, 205, 199-205. | 7.8 | 122 |
| 2 | Raman Spectroscopy Analysis for Optical Diagnosis of Oral Cancer Detection. <i>Journal of Clinical Medicine</i> , 2019, 8, 1313. | 2.4 | 65 |
| 3 | Improving Efficiency of Multicrystalline Silicon and CIGS Solar Cells by Incorporating Metal Nanoparticles. <i>Materials</i> , 2015, 8, 6761-6771. | 2.9 | 40 |
| 4 | Formation process of high reflective Ni ²⁺ •Ag ⁺ •Au Ohmic contact for GaN flip-chip light-emitting diodes. <i>Applied Physics Letters</i> , 2007, 90, 163515. | 3.3 | 33 |
| 5 | Effect of Electron Leakage on Efficiency Droop in Wide-Well InGaN-Based Light-Emitting Diodes. <i>Applied Physics Express</i> , 2011, 4, 012106. | 2.4 | 30 |
| 6 | Bump and Underfill Effects on Thermal Behaviors of Flip-Chip LED Packages: Measurement and Modeling. <i>IEEE Transactions on Device and Materials Reliability</i> , 2014, 14, 161-168. | 2.0 | 25 |
| 7 | CZTSe solar cells prepared by electrodeposition of Cu/Sn/Zn stack layer followed by selenization at low Se pressure. <i>Nanoscale Research Letters</i> , 2014, 9, 678. | 5.7 | 23 |
| 8 | Fabrication and thermal analysis of flip-chip light-emitting diodes with different numbers of Au stub bumps. <i>Microelectronics Reliability</i> , 2010, 50, 683-687. | 1.7 | 20 |
| 9 | Heat sink performances of GaN/InGaN flip-chip light-emitting diodes fabricated on silicon and AlN submounts. <i>Microelectronics Reliability</i> , 2012, 52, 884-888. | 1.7 | 19 |
| 10 | Multiclass classification of autofluorescence images of oral cavity lesions based on quantitative analysis. <i>PLoS ONE</i> , 2020, 15, e0228132. | 2.5 | 19 |
| 11 | Si/ZnO nanorods/Ag/AZO structures as promising photovoltaic plasmonic cells. <i>Journal of Applied Physics</i> , 2015, 117, . | 2.5 | 17 |
| 12 | Surface Acoustic Wave Sensor for C-Reactive Protein Detection. <i>Sensors</i> , 2020, 20, 6640. | 3.8 | 17 |
| 13 | Deep traps in the ZnO nanorods/Si solar cells. <i>Journal of Alloys and Compounds</i> , 2017, 708, 247-254. | 5.5 | 15 |
| 14 | High-Efficiency InGaN-Based Yellow-Green Light-Emitting Diodes. <i>Japanese Journal of Applied Physics</i> , 2010, 49, 021004. | 1.5 | 14 |
| 15 | An observation of charge trapping phenomena in GaN/AlGaN/Gd ₂ O ₃ /Ni ²⁺ •Au structure. <i>Applied Physics Letters</i> , 2011, 98, . | 3.3 | 14 |
| 16 | Reactive Mechanism of Cu ₂ ZnSnSe ₄ Thin Films Prepared by Reactive Annealing of the Cu/Zn Metal Layer in a SnSex + Se Atmosphere. <i>Crystals</i> , 2019, 9, 10. | 2.2 | 14 |
| 17 | Light Output Improvement of InGaN-Based Light-Emitting Diodes by Microchannel Structure. <i>IEEE Photonics Technology Letters</i> , 2007, 19, 1175-1177. | 2.5 | 13 |
| 18 | Improvement of crystal quality of AlN grown on sapphire substrate by MOCVD. <i>Crystal Research and Technology</i> , 2010, 45, 703-706. | 1.3 | 13 |

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|----|---|-----|-----------|
| 19 | Effects of Annealing on Characteristics of Cu ₂ ZnSnSe ₄ /CH ₃ NH ₃ PbI ₃ /ZnS/IZO Nanostructures for Enhanced Photovoltaic Solar Cells. <i>Nanomaterials</i> , 2020, 10, 521. | 4.1 | 13 |
| 20 | The Characteristics of Perovskite Solar Cells Fabricated Using DMF and DMSO/GBL Solvents. <i>Journal of Electronic Materials</i> , 2020, 49, 6823-6828. | 2.2 | 13 |
| 21 | Electrostatic Reliability Characteristics of GaN Flip-Chip Power Light-Emitting Diodes With Metal–Oxide–Silicon Submount. <i>IEEE Transactions on Electron Devices</i> , 2010, 57, 119-124. | 3.0 | 11 |
| 22 | Effect of Sn Content in a CuSnZn Metal Precursor on Formation of MoSe ₂ Film during Selenization in Se+SnSe Vapor. <i>Materials</i> , 2016, 9, 241. | 2.9 | 11 |
| 23 | Phosphor-Free InGaN White Light Emitting Diodes Using Flip-Chip Technology. <i>Materials</i> , 2017, 10, 432. | 2.9 | 9 |
| 24 | Novel Quantitative Analysis Using Optical Imaging (VELscope) and Spectroscopy (Raman) Techniques for Oral Cancer Detection. <i>Cancers</i> , 2020, 12, 3364. | 3.7 | 9 |
| 25 | Developing an Algorithm for Discriminating Oral Cancerous and Normal Tissues Using Raman Spectroscopy. <i>Journal of Personalized Medicine</i> , 2021, 11, 1165. | 2.5 | 9 |
| 26 | A Surface Acoustic Wave Sensor with a Microfluidic Channel for Detecting C-Reactive Protein. <i>Chemosensors</i> , 2021, 9, 106. | 3.6 | 8 |
| 27 | Low-Cost CuIn _{1-x} Ga _x Se ₂ Ultra-Thin Hole-Transporting Material Layer for Perovskite/CIGSe Heterojunction Solar Cells. <i>Applied Sciences (Switzerland)</i> , 2019, 9, 719. | 2.5 | 7 |
| 28 | The reflectivity of Mo/Ag/Au ohmic contacts on p-type GaN for flip-chip light-emitting diode (FCLED) applications. <i>Applied Surface Science</i> , 2008, 254, 4479-4482. | 6.1 | 6 |
| 29 | Comparison of silicone and spin-on glass packaging materials for light-emitting diode encapsulation. <i>Thin Solid Films</i> , 2014, 570, 496-499. | 1.8 | 6 |
| 30 | Formation of Cl-Doped ZnO Thin Films by a Cathodic Electrodeposition for Use as a Window Layer in CIGS Solar Cells. <i>Materials</i> , 2018, 11, 953. | 2.9 | 6 |
| 31 | Improvement of Surge Protection by Using an AlGaIn/GaN-Based Metal–Semiconductor–Metal Two-Dimensional Electron Gas Varactor. <i>Japanese Journal of Applied Physics</i> , 2012, 51, 124201. | 1.5 | 5 |
| 32 | Improvement of Surge Protection by Using an AlGaIn/GaN-Based Metal–Semiconductor–Metal Two-Dimensional Electron Gas Varactor. <i>Japanese Journal of Applied Physics</i> , 2012, 51, 124201. | 1.5 | 4 |
| 33 | Improving the reliability of eutectic bonding vertical power light-emitting diodes by a Mo buffer layer. <i>Thin Solid Films</i> , 2014, 570, 500-503. | 1.8 | 4 |
| 34 | Effects of Growth Parameters on Surface-morphological, Structural and Electrical Properties of Mo Films by RF Magnetron Sputtering. <i>Materials Research Society Symposia Proceedings</i> , 2008, 1123, 18. | 0.1 | 3 |
| 35 | Lane detection system based on software and hardware codesign. , 2009, , . | | 3 |
| 36 | Tin sulfide thin films prepared by thermal evaporation and sulfurization. , 2014, , . | | 3 |

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|----|---|-----|-----------|
| 37 | Capacitance Swing and Capacitance Ratio of GaN-Based Metal-Semiconductor-Metal Two-Dimensional Electron Gas Varactor with Different Dielectric Films. Journal of Electrical Engineering and Technology, 2015, 10, 1720-1725. | 2.0 | 3 |
| 38 | Anomalous Decrease of Off-State Drain Leakage Current in GaN/AlGaIn HEMTs With Dual Optical Excitation. IEEE Electron Device Letters, 2014, 35, 820-822. | 3.9 | 2 |
| 39 | Improved surge protection of flip-chip gallium nitride-based HEMTs by metal-semiconductor-metal two-dimensional electron gas varactor. Journal of Vacuum Science and Technology B: Nanotechnology and Microelectronics, 2015, 33, 021401. | 1.2 | 2 |
| 40 | Output Properties of Transparent Submount Packaged FlipChip Light-Emitting Diode Modules. Applied Sciences (Switzerland), 2016, 6, 179. | 2.5 | 2 |
| 41 | RGB-Stack Light Emitting Diode Modules with Transparent Glass Circuit Board and Oil Encapsulation. Materials, 2018, 11, 365. | 2.9 | 2 |
| 42 | Deep Etched Gallium Nitride Waveguide for Raman Spectroscopic Applications. Crystals, 2019, 9, 176. | 2.2 | 2 |
| 43 | Capacitance Characteristics and Breakdown Mechanism of AlGaIn/GaN Metal-Semiconductor-Metal Varactors and their Anti-Surge Application. Crystals, 2020, 10, 292. | 2.2 | 2 |
| 44 | GaN 2DEG Varactor-Based Impulse Suppression Module for Protection Against Malicious Electromagnetic Interference. Journal of Electronic Materials, 2020, 49, 6798-6805. | 2.2 | 2 |
| 45 | Wideband double-ring resonator with transmission zeros and resonances using high permittivity aluminum nitride substrate. Microwave and Optical Technology Letters, 2009, 51, 2878-2882. | 1.4 | 1 |
| 46 | Enhance the protection capability of intentional electro magnetic interference with Zinc Oxide sintered gas discharge tube. , 2015, , . | | 1 |
| 47 | Effect of the chemical composition of Cu-In-Ga-Se layers on the photoconductivity and conversion efficiency of CdS/CIGSe solar cells. Semiconductors, 2016, 50, 1344-1351. | 0.5 | 1 |
| 48 | Lifetime of excess electrons in Cu-Zn-Sn-Se powders. Semiconductors, 2017, 51, 18-22. | 0.5 | 1 |
| 49 | Meta-Learning Techniques to Analyze the Raman Data for Optical Diagnosis of Oral Cancer Detection. , 2019, , . | | 1 |
| 50 | Annealing-Dependent Breakdown Voltage and Capacitance of Gallium Oxide-Based Gallium Nitride MOSOM Varactors. Materials, 2020, 13, 4956. | 2.9 | 1 |
| 51 | The Improvement of Bonding Metal Layers in a GaAs Vertical Structure Light-Emitting Diode Package. Journal of Electronic Materials, 2020, 49, 6859-6864. | 2.2 | 1 |
| 52 | The Reflectivity enhancement of Ni/Ag/(Ti or Mo)/Au Ohmic Contact for Flip-Chip Light-Emitting Diode Applications. , 2007, , . | | 0 |
| 53 | Effects of Growth Parameters on Surface-morphological, Structural, Electrical and Optical Properties of AZO Films by RF Magnetron Sputtering. Materials Research Society Symposia Proceedings, 2009, 1201, 149. | 0.1 | 0 |
| 54 | An observation of charge trapping phenomena in GaN/AlGaIn/Gd ₂ O ₃ /MOS schottky structure. , 2011, , . | | 0 |

| # | ARTICLE | IF | CITATIONS |
|----|---|----|-----------|
| 55 | Thickness effect of IGZO layer in light-addressable potentiometric sensor. , 2016, , . | | 0 |
| 56 | The formation of MoSe ₂ films during selenization process in CZTSe solar cells. , 2016, , . | | 0 |
| 57 | Frequency dependent capacitance of metal semiconductor metal varactor diode and its tunable filter application. , 2018, , . | | 0 |