# Hutomo Suryo Wasisto

List of Publications by Year
in descending order

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| 176 | 3,715 | 136950 32 | 155660 55 |
|---|---|---|---|
| papers | citations | h-index | g-index |

| 177 | 177 | 177 | 3320 |
|---|---|---|---|
| all docs | docs citations | times ranked | citing authors |

| # | Article | IF | Citations |
|---|---|---|---|
| 1 | GaN based nanorods for solid state lighting. Journal of Applied Physics, 2012, 111, . | 2.5 | 463 |
| 2 | Beyond solid-state lighting: Miniaturization, hybrid integration, and applications of GaN nano- and micro-LEDs. Applied Physics Reviews, 2019, 6, . | 11.3 | 194 |
| 3 | Airborne engineered nanoparticle mass sensor based on a silicon resonant cantilever. Sensors and Actuators B: Chemical, 2013, 180, 77-89. | 7.8 | 136 |
| 4 | The nanorod approach: GaN NanoLEDs for solid state lighting. Physica Status Solidi C: Current Topics in Solid State Physics, 2011, 8, 2296-2301. | 0.8 | 128 |
| 5 | A Highly Selective and Selfâ€Powered Gas Sensor Via Organic Surface Functionalization of pâ€Si/nâ€ZnO Diodes. Advanced Materials, 2014, 26, 8017-8022. | 21.0 | 103 |
| 6 | A Parts Per Billion (ppb) Sensor for NO<sub>2</sub> with Microwatt (Î¼W) Power Requirements Based on Micro Light Plates. ACS Sensors, 2019, 4, 822-826. | 7.8 | 85 |
| 7 | Continuous-Flow MOVPE of Ga-Polar GaN Column Arrays and Coreâ€“Shell LED Structures. Crystal Growth and Design, 2013, 13, 3475-3480. | 3.0 | 80 |
| 8 | Highly Selective SAMâ€“Nanowire Hybrid NO<sub>2</sub> Sensor: Insight into Charge Transfer Dynamics and Alignment of Frontier Molecular Orbitals. Advanced Functional Materials, 2014, 24, 595-602. | 14.9 | 71 |
| 9 | Band Engineered Epitaxial 3D GaN-InGaN Coreâ€“Shell Rod Arrays as an Advanced Photoanode for Visible-Light-Driven Water Splitting. ACS Applied Materials & Interfaces, 2014, 6, 2235-2240. | 8.0 | 69 |
| 10 | Silicon resonant nanopillar sensors for airborne titanium dioxide engineered nanoparticle mass detection. Sensors and Actuators B: Chemical, 2013, 189, 146-156. | 7.8 | 63 |
| 11 | Piezoresistive microcantilevers for humidity sensing. Journal of Micromechanics and Microengineering, 2019, 29, 053003. | 2.6 | 60 |
| 12 | Handheld personal airborne nanoparticle detector based on microelectromechanical silicon resonant cantilever. Microelectronic Engineering, 2015, 145, 96-103. | 2.4 | 59 |
| 13 | GaN nanowire arrays with nonpolar sidewalls for vertically integrated field-effect transistors. Nanotechnology, 2017, 28, 095206. | 2.6 | 58 |
| 14 | Vertical architecture for enhancement mode power transistors based on GaN nanowires. Applied Physics Letters, 2016, 108, . | 3.3 | 55 |
| 15 | Quartz crystal microbalance humidity sensors integrated with hydrophilic polyethyleneimine-grafted polyacrylonitrile nanofibers. Sensors and Actuators B: Chemical, 2020, 319, 128286. | 7.8 | 54 |
| 16 | Advances of the top-down synthesis approach for high-performance silicon anodes in Li-ion batteries. Journal of Materials Chemistry A, 2021, 9, 18906-18926. | 10.3 | 52 |
| 17 | Portable cantilever-based airborne nanoparticle detector. Sensors and Actuators B: Chemical, 2013, 187, 118-127. | 7.8 | 50 |
| 18 | Phosphorâ€converted white light from blueâ€emitting InGaN microrod LEDs. Physica Status Solidi (A) Applications and Materials Science, 2016, 213, 1577-1584. | 1.8 | 48 |

| # | Article | IF | Citations |
|---|---|---|---|
| 19 | Characterization of particle emission from household electrical appliances. Science of the Total Environment, 2011, 409, 2534-2540. | 8.0 | 47 |
| 20 | Intelligent Mobile Electronic Nose System Comprising a Hybrid Polymer-Functionalized Quartz Crystal Microbalance Sensor Array. ACS Omega, 2020, 5, 29492-29503. | 3.5 | 46 |
| 21 | Quartz Crystal Microbalances Functionalized with Citric Acid-Doped Polyvinyl Acetate Nanofibers for Ammonia Sensing. ACS Applied Nano Materials, 2020, 3, 5687-5697. | 5.0 | 45 |
| 22 | Growth kinetics and mass transport mechanisms of GaN columns by selective area metal organic vapor phase epitaxy. Journal of Applied Physics, 2014, 115, . | 2.5 | 44 |
| 23 | A phase-locked loop frequency tracking system for portable microelectromechanical piezoresistive cantilever mass sensors. Microsystem Technologies, 2014, 20, 559-569. | 2.0 | 44 |
| 24 | Vertical GaN Nanowires and Nanoscale Light-Emitting-Diode Arrays for Lighting and Sensing Applications. ACS Applied Nano Materials, 2019, 2, 4133-4142. | 5.0 | 44 |
| 25 | Micro light plates for low-power photoactivated (gas) sensors. Applied Physics Letters, 2019, 114, . | 3.3 | 42 |
| 26 | A highly sensitive safrole sensor based on polyvinyl acetate (PVAc) nanofiber-coated QCM. Scientific Reports, 2019, 9, 15407. | 3.3 | 41 |
| 27 | Wearable Carbon Monoxide Sensors Based on Hybrid Graphene/ZnO Nanocomposites. IEEE Access, 2020, 8, 49169-49179. | 4.2 | 41 |
| 28 | Ultrashort Pulse Laser Lift-Off Processing of InGaN/GaN Light-Emitting Diode Chips. ACS Applied Electronic Materials, 2021, 3, 778-788. | 4.3 | 41 |
| 29 | Femtogram aerosol nanoparticle mass sensing utilising vertical silicon nanowire resonators. Micro and Nano Letters, 2013, 8, 554-558. | 1.3 | 38 |
| 30 | Electrospun Nanofibers for Quartz Crystal Microbalance Gas Sensors: A Review. ACS Applied Nano Materials, 2021, 4, 9957-9975. | 5.0 | 38 |
| 31 | Versatilely tuned vertical silicon nanowire arrays by cryogenic reactive ion etching as a lithium-ion battery anode. Scientific Reports, 2021, 11, 19779. | 3.3 | 36 |
| 32 | Growth mechanisms of GaN microrods for 3D coreâ€“shell LEDs: The influence of silane flow. Physica Status Solidi (A) Applications and Materials Science, 2015, 212, 2830-2836. | 1.8 | 34 |
| 33 | Analysis of asymmetric resonance response of thermally excited silicon micro-cantilevers for mass-sensitive nanoparticle detection. Journal of Micromechanics and Microengineering, 2017, 27, 064001. | 2.6 | 33 |
| 34 | Towards fabrication of 3D isotopically modulated vertical silicon nanowires in selective areas by nanosphere lithography. Microelectronic Engineering, 2017, 179, 74-82. | 2.4 | 32 |
| 35 | Normally Off Vertical 3-D GaN Nanowire MOSFETs With Inverted <inline-formula> <tex-math notation="LaTeX">${p}$ </tex-math> </inline-formula>-GaN Channel. IEEE Transactions on Electron Devices, 2018, 65, 2439-2445. | 3.0 | 32 |
| 36 | Top-down GaN nanowire transistors with nearly zero gate hysteresis for parallel vertical electronics. Scientific Reports, 2019, 9, 10301. | 3.3 | 32 |

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|---|---|---|---|
| 37 | 3D GaN nanoarchitecture for field-effect transistors. Micro and Nano Engineering, 2019, 3, 59-81. | 2.9 | 32 |
| 38 | Production of vertical nanowire resonators by cryogenic-ICPâ€“DRIE. Microsystem Technologies, 2014, 20, 759-767. | 2.0 | 31 |
| 39 | Finite element modeling and experimental proof of NEMS-based silicon pillar resonators for nanoparticle mass sensing applications. Microsystem Technologies, 2014, 20, 571-584. | 2.0 | 31 |
| 40 | Evaluation of photoresist-based nanoparticle removal method for recycling silicon cantilever mass sensors. Sensors and Actuators A: Physical, 2013, 202, 90-99. | 4.1 | 30 |
| 41 | High Aspect Ratio GaN Fin Microstructures with Nonpolar Sidewalls by Continuous Mode Metalorganic Vapor Phase Epitaxy. Crystal Growth and Design, 2016, 16, 1458-1462. | 3.0 | 30 |
| 42 | Directly addressable GaN-based nano-LED arrays: fabrication and electro-optical characterization. Microsystems and Nanoengineering, 2020, 6, 88. | 7.0 | 30 |
| 43 | Integrated Strategy toward Self-Powering and Selectivity Tuning of Semiconductor Gas Sensors. ACS Sensors, 2016, 1, 1256-1264. | 7.8 | 28 |
| 44 | Femtosecond Laser Liftâ€Off with Subâ€Bandgap Excitation for Production of Freeâ€Standing GaN Lightâ€Emitting Diode Chips. Advanced Engineering Materials, 2020, 22, 1901192. | 3.5 | 28 |
| 45 | Nanoindentation of crystalline silicon pillars fabricated by soft UV nanoimprint lithography and cryogenic deep reactive ion etching. Sensors and Actuators A: Physical, 2018, 283, 65-78. | 4.1 | 27 |
| 46 | Wafer-scale transfer route for topâ€“down III-nitride nanowire LED arrays based on the femtosecond laser lift-off technique. Microsystems and Nanoengineering, 2021, 7, 32. | 7.0 | 27 |
| 47 | Vertical silicon nanowire arrayâ€patterned microcantilever resonators for enhanced detection of cigarette smoke aerosols. Micro and Nano Letters, 2014, 9, 676-679. | 1.3 | 26 |
| 48 | Room-temperature ppb-level trimethylamine gas sensors functionalized with citric acid-doped polyvinyl acetate nanofibrous mats. Materials Advances, 2021, 2, 3705-3714. | 5.4 | 26 |
| 49 | Enhanced performance of pocket-sized nanoparticle exposure monitor for healthy indoor environment. Building and Environment, 2016, 95, 13-20. | 6.9 | 25 |
| 50 | Piezoelectric MEMS Resonators for Cigarette Particle Detection. Micromachines, 2019, 10, 145. | 2.9 | 25 |
| 51 | Gold-modified indium tin oxide as a transparent window in optoelectronic diagnostics of electrochemically active biofilms. Biosensors and Bioelectronics, 2017, 94, 74-80. | 10.1 | 24 |
| 52 | Direct correlations of structural and optical properties of three-dimensional GaN/InGaN core/shell micro-light emitting diodes. Japanese Journal of Applied Physics, 2016, 55, 05FJ09. | 1.5 | 22 |
| 53 | Partially integrated cantilever-based airborne nanoparticle detector for continuous carbon aerosol mass concentration monitoring. Journal of Sensors and Sensor Systems, 2015, 4, 111-123. | 0.9 | 22 |
| 54 | Vertically Aligned n-Type Silicon Nanowire Array as a Free-Standing Anode for Lithium-Ion Batteries. Nanomaterials, 2021, 11, 3137. | 4.1 | 21 |

| # | Article | IF | Citations |
|---|---|---|---|
| 55 | Hybrid learning method based on feature clustering and scoring for enhanced COVID-19 breath analysis by an electronic nose. Artificial Intelligence in Medicine, 2022, 129, 102323. | 6.5 | 21 |
| 56 | Real-Time Frequency Tracking of an Electro-Thermal Piezoresistive Cantilever Resonator with ZnO Nanorods for Chemical Sensing. Chemosensors, 2019, 7, 2. | 3.6 | 19 |
| 57 | In-Plane and Out-of-Plane MEMS Piezoresistive Cantilever Sensors for Nanoparticle Mass Detection. Sensors, 2020, 20, 618. | 3.8 | 19 |
| 58 | Silicon Nanowire Resonators: Aerosol Nanoparticle Mass Sensing in the Workplace. IEEE Nanotechnology Magazine, 2013, 7, 18-23. | 1.3 | 18 |
| 59 | Piezoresistive Silicon Cantilever Covered by ZnO Nanorods for Humidity Sensing. Procedia Engineering, 2016, 168, 1114-1117. | 1.2 | 18 |
| 60 | Nano illumination microscopy: a technique based on scanning with an array of individually addressable nanoLEDs. Optics Express, 2020, 28, 19044. | 3.4 | 18 |
| 61 | Thermal characterization of vertical silicon nanowires. Journal of Materials Research, 2011, 26, 1958-1962. | 2.6 | 17 |
| 62 | Study of 3D-growth conditions for selective area MOVPE of high aspect ratio GaN fins with non-polar vertical sidewalls. Journal of Crystal Growth, 2017, 476, 90-98. | 1.5 | 17 |
| 63 | Sonochemical synthesis of magnetic Fe3O4/graphene nanocomposites for label-free electrochemical biosensors. Journal of Materials Science: Materials in Electronics, 2020, 31, 15381-15393. | 2.2 | 17 |
| 64 | Continuous Live-Cell Culture Imaging and Single-Cell Tracking by Computational Lensfree LED Microscopy. Sensors, 2019, 19, 1234. | 3.8 | 16 |
| 65 | Visible Light-Driven p-Type Semiconductor Gas Sensors Based on CaFe2O4 Nanoparticles. Sensors, 2020, 20, 850. | 3.8 | 16 |
| 66 | Transferable micromachined piezoresistive force sensor with integrated double-meander-spring system. Journal of Sensors and Sensor Systems, 2017, 6, 121-133. | 0.9 | 16 |
| 67 | Highly stable threshold voltage in GaN nanowire FETs: The advantages of p-GaN channel/Al2O3 gate insulator. Applied Physics Letters, 2020, 117, . | 3.3 | 15 |
| 68 | GaN nanorods and LED structures grown on patterned Si and AlN/Si substrates by selective area growth. Physica Status Solidi C: Current Topics in Solid State Physics, 2010, 7, 2224-2226. | 0.8 | 14 |
| 69 | Performance analysis and simulation of vertical gallium nitride nanowire transistors. Solid-State Electronics, 2018, 144, 73-77. | 1.4 | 13 |
| 70 | Vertical 3D gallium nitride field-effect transistors based on fin structures with inverted p-doped channel. Semiconductor Science and Technology, 2021, 36, 014002. | 2.0 | 13 |
| 71 | Characterization of the internal properties of InGaN/GaN coreâ€“shell LEDs. Physica Status Solidi (A) Applications and Materials Science, 2016, 213, 11-18. | 1.8 | 12 |
| 72 | Area-Selective Growth of Aligned ZnO Nanorod Arrays for MEMS Device Applications. Proceedings (mdpi), 2018, 2, . | 0.2 | 11 |

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|---|---|---|---|
| 73 | Traceable Nanomechanical Metrology of GaN Micropillar Array. Advanced Engineering Materials, 2018, 20, 1800353. | 3.5 | 11 |
| 74 | Photoluminescence of planar and 3D InGaN/GaN LED structures excited with femtosecond laser pulses close to the damage threshold. Scientific Reports, 2018, 8, 11560. | 3.3 | 11 |
| 75 | Contact resonance spectroscopy for on-the-machine manufactory monitoring. Sensors and Actuators A: Physical, 2018, 279, 501-508. | 4.1 | 11 |
| 76 | Strategy toward Miniaturized, Self-out-Readable Resonant Cantilever and Integrated Electrostatic Microchannel Separator for Highly Sensitive Airborne Nanoparticle Detection. Sensors, 2019, 19, 901. | 3.8 | 11 |
| 77 | Stability evaluation of quartz crystal microbalances coated with polyvinyl acetate nanofibrous mats as butanol vapor sensors. Materials Today Communications, 2021, 26, 101770. | 1.9 | 11 |
| 78 | Size-Dependent Electroluminescence and Current-Voltage Measurements of Blue InGaN/GaN ÂµLEDs down to the Submicron Scale. Nanomaterials, 2021, 11, 836. | 4.1 | 11 |
| 79 | Size-selective electrostatic sampling and removal of nanoparticles on silicon cantilever sensors for air-quality monitoring. , 2017, , . | | 10 |
| 80 | Human exposure to airborne particles during wood processing. Atmospheric Environment, 2018, 193, 101-108. | 4.1 | 10 |
| 81 | Cellular lasers for cell imaging and biosensing. Acta Biomaterialia, 2022, 143, 39-51. | 8.3 | 10 |
| 82 | A resonant cantilever sensor for monitoring airborne nanoparticles. , 2011, , . | | 9 |
| 83 | Determination of exposure to engineered carbon nanoparticles using a self-sensing piezoresistive silicon cantilever sensor. Microsystem Technologies, 2012, 18, 905-915. | 2.0 | 9 |
| 84 | Improvement of frequency responses of an in-plane electro-thermal cantilever sensor for real-time measurement. Journal of Micromechanics and Microengineering, 2019, 29, 124006. | 2.6 | 9 |
| 85 | Fabrication of a microcantilever-based aerosol detector with integrated electrostatic on-chip ultrafine particle separation and collection. Journal of Micromechanics and Microengineering, 2020, 30, 014001. | 2.6 | 9 |
| 86 | Threeâ€dimensionally structured silicon as a substrate for the MOVPE growth of GaN nanoLEDs. Physica Status Solidi (A) Applications and Materials Science, 2009, 206, 1194-1198. | 1.8 | 8 |
| 87 | An 800 volts high voltage interconnection level shifter using Floating Poly Field Plate (FPFP) method. , 2010, , . | | 8 |
| 88 | Double-meander spring silicon piezoresistive sensors as microforce calibration standards. Optical Engineering, 2016, 55, 091409. | 1.0 | 8 |
| 89 | The influence of MOVPE growth conditions on the shell of core-shell GaN microrod structures. Journal of Crystal Growth, 2017, 465, 34-42. | 1.5 | 8 |
| 90 | InGaN/GaN nanoLED Arrays as a Novel Illumination Source for Biomedical Imaging and Sensing Applications. Proceedings (mdpi), 2018, 2, . | 0.2 | 8 |

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|---|---|---|---|
| 91 | Ultrafine Aerosol Particle Sizer Based on Piezoresistive Microcantilever Resonators with Integrated Air-Flow Channel. Sensors, 2021, 21, 3731. | 3.8 | 8 |
| 92 | Phase optimization of thermally actuated piezoresistive resonant MEMS cantilever sensors. Journal of Sensors and Sensor Systems, 2019, 8, 37-48. | 0.9 | 8 |
| 93 | Visible-Light-Driven Room Temperature NO2 Gas Sensor Based on Localized Surface Plasmon Resonance: The Case of Gold Nanoparticle Decorated Zinc Oxide Nanorods (ZnO NRs). Chemosensors, 2022, 10, 28. | 3.6 | 8 |
| 94 | A novel 800V multiple RESURF LDMOS utilizing linear p-top rings. , 2010, , . | | 7 |
| 95 | LED-Based Tomographic Imaging for Live-Cell Monitoring of Pancreatic Islets in Microfluidic Channels. Proceedings (mdpi), 2017, 1, . | 0.2 | 7 |
| 96 | Self-diffusion in single crystalline silicon nanowires. Journal of Applied Physics, 2018, 123, 161515. | 2.5 | 7 |
| 97 | Performance of an Electrothermal MEMS Cantilever Resonator with Fano-Resonance Annoyance under Cigarette Smoke Exposure. Sensors, 2021, 21, 4088. | 3.8 | 7 |
| 98 | Sensitivity prediction and analysis of nanofiber-based gas sensors using solubility and vapor pressure parameters. Japanese Journal of Applied Physics, 2021, 60, 107001. | 1.5 | 7 |
| 99 | Nano-structured transmissive spectral filter matrix based on guided-mode resonances. Journal of the European Optical Society-Rapid Publications, 2019, 15, . | 1.9 | 6 |
| 100 | A Compact Calibratable Pulse Oximeter Based on Color Filters: Towards a Quantitative Analysis of Measurement Uncertainty. IEEE Sensors Journal, 2021, 21, 7522-7531. | 4.7 | 6 |
| 101 | Gravimetric humidity sensor based on ZnO nanorods covered piezoresistive Si microcantilever. , 2017, , . | | 6 |
| 102 | Transparent porous polymer sheets for efficient product separation in solar water splitting. Sustainable Energy and Fuels, 2022, 6, 377-385. | 4.9 | 6 |
| 103 | Low-weight electrostatic sampler for airborne nanoparticles. , 2011, , . | | 5 |
| 104 | Femtogram Mass Measurement of Airborne Engineered Nanoparticles using Silicon Nanopillar Resonators. Procedia Engineering, 2012, 47, 289-292. | 1.2 | 5 |
| 105 | Ultra-high-speed cantilever tactile probe for high-aspect-ratio micro metrology. , 2015, , . | | 5 |
| 106 | Cantilever Sensors. Sensors, 2019, 19, 2043. | 3.8 | 5 |
| 107 | Demonstration of UV-Induced Threshold Voltage Instabilities in Vertical GaN Nanowire Array-Based Transistors. IEEE Transactions on Electron Devices, 2019, 66, 2119-2124. | 3.0 | 5 |
| 108 | Nonmechanical parfocal and autofocus features based on wave propagation distribution in lensfree holographic microscopy. Scientific Reports, 2021, 11, 3213. | 3.3 | 5 |

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|---|---|---|---|
| 109 | Processing and Characterization of Monolithic Passive-Matrix GaN-Based MicroLED Arrays With Pixel Sizes From 5 to 50 Âµm. IEEE Photonics Journal, 2021, 13, 1-9. | 2.0 | 5 |
| 110 | Gradients in Three-Dimensional Coreâ€“Shell GaN/InGaN Structures: Optimization and Physical Limitations. ACS Applied Materials & Interfaces, 2022, 14, 9272-9280. | 8.0 | 5 |
| 111 | Intracellular gold nanoparticles influence light scattering and facilitate amplified spontaneous emission generation. Journal of Colloid and Interface Science, 2022, 622, 914-923. | 9.4 | 5 |
| 112 | Use of self-sensing piezoresistive Si cantilever sensor for determining carbon nanoparticle mass. , 2011, , . | | 4 |
| 113 | Cleaning of structured templates from nanoparticle accumulation using silicone. Microsystem Technologies, 2012, 18, 835-842. | 2.0 | 4 |
| 114 | MEMS-based silicon cantilevers with integrated electrothermal heaters for airborne ultrafine particle sensing. Proceedings of SPIE, 2013, , . | 0.8 | 4 |
| 115 | Nanofabrication of Vertically Aligned 3D GaN Nanowire Arrays with Sub-50 nm Feature Sizes Using Nanosphere Lift-off Lithography. Proceedings (mdpi), 2017, 1, 309. | 0.2 | 4 |
| 116 | Pursuing the Diffraction Limit with Nano-LED Scanning Transmission Optical Microscopy. Sensors, 2021, 21, 3305. | 3.8 | 4 |
| 117 | Individually Switchable InGaN/GaN Nano-LED Arrays as Highly Resolved Illumination Engines. Electronics (Switzerland), 2021, 10, 1829. | 3.1 | 4 |
| 118 | Microtactile Cantilever Resonators for Characterizing Surface Deposits. Procedia Engineering, 2015, 120, 861-864. | 1.2 | 3 |
| 119 | Electrothermal piezoresistive cantilever resonators for personal measurements of nanoparticles in workplace exposure. Proceedings of SPIE, 2015, , . | 0.8 | 3 |
| 120 | Asymmetric resonance frequency analysis of in-plane electrothermal silicon cantilevers for nanoparticle sensors. Journal of Physics: Conference Series, 2016, 757, 012006. | 0.4 | 3 |
| 121 | Nanomechanical Traceable Metrology of Vertically Aligned Silicon and Germanium Nanowires by Nanoindentation. Proceedings (mdpi), 2017, 1, 375. | 0.2 | 3 |
| 122 | Structural Modifications in Free-Standing InGaN/GaN LEDs after Femtosecond Laser Lift-Off. Proceedings (mdpi), 2018, 2, . | 0.2 | 3 |
| 123 | UV-LED Photo-Activated Room Temperature NO2 Sensors Based on Nanostructured ZnO/AlN Thin Films. Proceedings (mdpi), 2019, 2, . | 0.2 | 3 |
| 124 | Visible Light Activated Room Temperature Gas Sensors Based on CaFe2O4 Nanopowders. Proceedings (mdpi), 2018, 2, 834. | 0.2 | 3 |
| 125 | Continuous Live-Cell Culture Monitoring by Compact Lensless LED Microscopes. Proceedings (mdpi), 2018, 2, . | 0.2 | 3 |
| 126 | Pinhole microLED Array as Point Source Illumination for Miniaturized Lensless Cell Monitoring Systems. Proceedings (mdpi), 2018, 2, . | 0.2 | 3 |

| # | Article | IF | Citations |
|---|---|---|---|
| 127 | Transferable Substrateless GaN LED Chips Produced by Femtosecond Laser Lift-Off for Flexible Sensor Applications. Proceedings (mdpi), 2018, 2, 891. | 0.2 | 3 |
| 128 | Design and fabrication of AlN-on-Si chirped surface acoustic wave resonators for label-free cell detection. Journal of Physics: Conference Series, 2019, 1319, 012011. | 0.4 | 3 |
| 129 | Time-resolved cathodoluminescence investigations of AlN:Ge/GaN nanowire structures. Nano Express, 2021, 2, 034001. | 2.4 | 3 |
| 130 | Enhanced airborne nanoparticles mass sensing using a high-mode resonant silicon cantilever sensor. , 2011, , . | | 2 |
| 131 | Development of silicon microforce sensors integrated with double meander springs for standard hardness test instruments. , 2015, , . | | 2 |
| 132 | Fabrication of wear-resistant silicon microprobe tips for high-speed surface roughness scanning devices. Proceedings of SPIE, 2015, , . | 0.8 | 2 |
| 133 | Low-cost wearable cantilever-based nanoparticle sensor microsystem for personal health and safety monitoring. , 2015, , . | | 2 |
| 134 | Preparation and Integration of a Multi-Wavelength LED Matrix for Testing Light Cell Interaction in a Novel Lens Less Optical Microscope. Proceedings (mdpi), 2018, 2, 1074. | 0.2 | 2 |
| 135 | Thermal performance analysis of GaN nanowire and fin-shaped power transistors based on self-consistent electrothermal simulations. Microelectronics Reliability, 2018, 91, 227-231. | 1.7 | 2 |
| 136 | Ultra Low Power Mass-Producible Gas Sensor Based on Efficient Self-Heated GaN Nanorods. , 2019, , . | | 2 |
| 137 | Evaluations of heat treatment on polymer adhesive bonding and thermal-induced failure of two-layer through-silicon via structures. Sensors and Actuators A: Physical, 2019, 285, 685-699. | 4.1 | 2 |
| 138 | Silicon Nanopillars with ZNO Nanorods by Nanosphere Lithography on a Piezoresistive Microcantilever. , 2019, , . | | 2 |
| 139 | Method for non-invasive hemoglobin oxygen saturation measurement using broadband light source and color filters. , 2019, , . | | 2 |
| 140 | Towards a super-resolution structured illumination microscope based on an array of nanoLEDs. , 2019, , . | | 2 |
| 141 | Self-exciting and self-sensing resonant cantilever sensors for improved monitoring of airborne nanoparticles exposure. , 2011, , . | | 1 |
| 142 | Effect of Photoresist Coating on the Reusable Resonant Cantilever Sensors for Assessing Exposure to Airborne Nanoparticles. Procedia Engineering, 2012, 47, 302-305. | 1.2 | 1 |
| 143 | Simulation and characterization of silicon nanopillar-based nanoparticle sensors. , 2013, , . | | 1 |
| 144 | Direct-reading Resonant Silicon Cantilever for Probing of Surface Deposits. Procedia Engineering, 2016, 168, 658-661. | 1.2 | 1 |

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|---|---|---|---|
| 145 | Vertical 3D GaN Nanoarchitectures towards an Integrated Optoelectronic Biosensing Platform in Microbial Fuel Cells. Proceedings (mdpi), 2017, 1, . | 0.2 | 1 |
| 146 | Top-Down Fabrication of Arrays of Vertical GaN Nanorods with Freestanding Top Contacts for Environmental Exposure. Proceedings (mdpi), 2018, 2, . | 0.2 | 1 |
| 147 | Pixel-Wise Multispectral Sensing System Using Nanostructured Filter Matrix for Biomedical Applications. Proceedings (mdpi), 2018, 2, 880. | 0.2 | 1 |
| 148 | An LED Platform for Micropower Gas Sensors. Proceedings (mdpi), 2018, 2, . | 0.2 | 1 |
| 149 | Large area contact resonance spectroscopy mapping system for on-the-machine measurements. , 2018, , . | | 1 |
| 150 | Self-reading femtogram microbalance for highly sensitive airborne nanoparticle detection. Journal of Physics: Conference Series, 2019, 1319, 012004. | 0.4 | 1 |
| 151 | Indentation modulus and hardness investigation of crystalline silicon surfaces treated by inductively coupled plasma reactive ion etching. Journal of Physics: Conference Series, 2019, 1319, 012008. | 0.4 | 1 |
| 152 | Adsorption and detection of microparticles using silicon microcantilevers. Journal of Physics: Conference Series, 2019, 1319, 012010. | 0.4 | 1 |
| 153 | A Microwatt Gas Sensor for No2 Detection in the Parts Per Billion Range. , 2019, , . | | 1 |
| 154 | Fabrication of SiO<sub>2</sub> microcantilever arrays for mechanical loss measurements. Materials Research Express, 2019, 6, 045206. | 1.6 | 1 |
| 155 | Influence of eccentric nanoindentation on top surface of silicon micropillar arrays. Journal of Physics: Conference Series, 2021, 1837, 012008. | 0.4 | 1 |
| 156 | A Novel Approach for a Chip-Sized Scanning Optical Microscope. Micromachines, 2021, 12, 527. | 2.9 | 1 |
| 157 | Asymmetric resonance response analysis of a thermally excited silicon microcantilever for mass-sensitive nanoparticle detection. Proceedings of SPIE, 2017, , . | 0.8 | 1 |
| 158 | Ontology Development of Semantic E-Learning for Final Project Course. Advanced Science Letters, 2015, 21, 46-51. | 0.2 | 1 |
| 159 | Cleaning of nanopillar templates for nanoparticle collection using PDMS. , 2011, , . | | 0 |
| 160 | LDMOS Thermal SOA Investigation of a Novel 800V Multiple RESURF with Linear P-top Rings. ECS Transactions, 2011, 34, 979-984. | 0.5 | 0 |
| 161 | Silicon nanowire resonators for aerosol nanoparticle mass sensing. , 2013, , . | | 0 |
| 162 | A closed-loop system for frequency tracking of piezoresistive cantilever sensors. , 2013, , . | | 0 |

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|---|---|---|---|
| 163 | Fabrication of vertical nanowire resonators for aerosol exposure assessment. Proceedings of SPIE, 2013, , . | 0.8 | 0 |
| 164 | In-plane-excited silicon nanowire arrays-patterned cantilever sensors for enhanced airborne particulate matter exposure detection. , 2014, , . | | 0 |
| 165 | Large-area fabrication of silicon nanostructures by templated nanoparticle arrays. , 2017, , . | | 0 |
| 166 | Piezo Resistive Read-Out Contact Resonance Spectroscopy for Material and Layer Analysis at High-Aspect-Ratio Geometries. Proceedings (mdpi), 2017, 1, . | 0.2 | 0 |
| 167 | Design of Miniaturized, Self-Out-Readable Cantilever Resonator for Highly Sensitive Airborne Nanoparticle Detection. Proceedings (mdpi), 2018, 2, . | 0.2 | 0 |
| 168 | Nanofabrication of SOI-Based Photonic Waveguide Resonators for Gravimetric Molecule Detection. Proceedings (mdpi), 2018, 2, 1055. | 0.2 | 0 |
| 169 | Micro Light Plates for Photoactivated Micro-Power Gas Sensors. Proceedings (mdpi), 2019, 14, 8. | 0.2 | 0 |
| 170 | Enhancement of real-time resonance tracking in electrothermally actuated cantilever sensor with optimized phase characteristic. Journal of Physics: Conference Series, 2019, 1319, 012003. | 0.4 | 0 |
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