

Thanh Nguyen

List of Publications by Year in descending order

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Version: 2024-02-01

38
papers

664
citations

623574

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h-index

580701

25
g-index

38
all docs

38
docs citations

38
times ranked

510
citing authors

| # | ARTICLE | IF | CITATIONS |
|----|---|-----|-----------|
| 1 | Electric Field-Enhanced Electrohydrodynamic Process For Fabrication of Highly Sensitive Piezoelectric Sensor. , 2022, , . | | 2 |
| 2 | The concept of light-harvesting, self-powered mechanical sensors using a monolithic structure. Nano Energy, 2022, 96, 107030. | 8.2 | 10 |
| 3 | Ultrasensitive Self-Powered Position-Sensitive Detector Based on n-3C-SiC/p-Si Heterojunctions. ACS Applied Electronic Materials, 2022, 4, 768-775. | 2.0 | 9 |
| 4 | Enhanced Electrohydrodynamics for Electrospinning a Highly Sensitive Flexible Fiber-Based Piezoelectric Sensor. ACS Applied Electronic Materials, 2022, 4, 1301-1310. | 2.0 | 15 |
| 5 | Light-Harvesting Self-Powered Monolithic-Structure Temperature Sensing Based on 3C-SiC/Si Heterostructure. ACS Applied Materials & Interfaces, 2022, 14, 22593-22600. | 4.0 | 3 |
| 6 | Stretchable, Skin-Breathable, and Ultrasensitive Respiration Sensor Using Graphite on Paper With Smart Structures. IEEE Sensors Journal, 2022, 22, 16804-16810. | 2.4 | 3 |
| 7 | Ultra-sensitive self-powered position-sensitive detector based on horizontally-aligned double 3C-SiC/Si heterostructures. Nano Energy, 2021, 79, 105494. | 8.2 | 25 |
| 8 | Physical Sensors: Thermal Sensors. , 2021, , . | | 1 |
| 9 | Advances in ultrasensitive piezoresistive sensors: from conventional to flexible and stretchable applications. Materials Horizons, 2021, 8, 2123-2150. | 6.4 | 61 |
| 10 | In-air particle generation by on-chip electrohydrodynamics. Lab on A Chip, 2021, 21, 1779-1787. | 3.1 | 11 |
| 11 | A Wearable, Bending-Insensitive Respiration Sensor Using Highly Oriented Carbon Nanotube Film. IEEE Sensors Journal, 2021, 21, 7308-7315. | 2.4 | 20 |
| 12 | Effects of photogenerated-hole diffusion on 3C-SiC/Si heterostructure optoelectronic position-sensitive detector. Journal Physics D: Applied Physics, 2021, 54, 265101. | 1.3 | 13 |
| 13 | Wide-Band-Gap Semiconductors for Biointegrated Electronics: Recent Advances and Future Directions. ACS Applied Electronic Materials, 2021, 3, 1959-1981. | 2.0 | 21 |
| 14 | Electrospray propelled by ionic wind in a bipolar system for direct delivery of charge reduced nanoparticles. Applied Physics Express, 2021, 14, 055001. | 1.1 | 9 |
| 15 | AlGaIn/GaN 2-D Electron Gas for Highly Sensitive and High-Temperature Current Sensing. IEEE Transactions on Electron Devices, 2021, 68, 1495-1500. | 1.6 | 4 |
| 16 | Piezotronic effect in a normally off p-GaN/AlGaIn/GaN HEMT toward highly sensitive pressure sensor. Applied Physics Letters, 2021, 118, 242104. | 1.5 | 15 |
| 17 | Piezoresistive Effect with a Gauge Factor of 18×10^3 in a Semiconductor Heterojunction Modulated by Bonded Light-Emitting Diodes. ACS Applied Materials & Interfaces, 2021, 13, 35046-35053. | 4.0 | 11 |
| 18 | Neuromorphic processing at 11 Tera-OPs with soliton crystal Kerr microcombs. , 2021, , . | | 1 |

| # | ARTICLE | IF | CITATIONS |
|----|--|-----|-----------|
| 19 | Generation of a Charge Carrier Gradient in a 3C-SiC/Si Heterojunction with Asymmetric Configuration. ACS Applied Materials & Interfaces, 2021, 13, 55329-55338. | 4.0 | 9 |
| 20 | Seebeck coefficient in SiC/Si heterojunction for self-powered thermal sensor. , 2021, , . | | 1 |
| 21 | Ultrasensitive strain sensor enhanced by Bonded Light Emitting Diodes. , 2021, , . | | 0 |
| 22 | Design and fabrication of paper-based stretchable sensor for respiration monitoring. , 2021, , . | | 1 |
| 23 | Rapid Fabrication of High-responsivity Photodetectors Utilizing AlGaIn/GaN on Sapphire. , 2021, , . | | 0 |
| 24 | Stretchable respiration sensors: Advanced designs and multifunctional platforms for wearable physiological monitoring. Biosensors and Bioelectronics, 2020, 166, 112460. | 5.3 | 129 |
| 25 | Optothermotronic effect as an ultrasensitive thermal sensing technology for solid-state electronics. Science Advances, 2020, 6, eaay2671. | 4.7 | 19 |
| 26 | Engine performance and combustion characteristics of a direct injection compression ignition engine fueled waste cooking oil synthetic diesel. International Journal of Coal Science and Technology, 2020, 7, 560-570. | 2.7 | 6 |
| 27 | Optoelectronic Enhancement for Piezoresistive Pressure Sensor. , 2020, , . | | 3 |
| 28 | Opto-electronic coupling in semiconductors: towards ultrasensitive pressure sensing. Journal of Materials Chemistry C, 2020, 8, 4713-4721. | 2.7 | 22 |
| 29 | Self-powered monolithic accelerometer using a photonic gate. Nano Energy, 2020, 76, 104950. | 8.2 | 18 |
| 30 | Advances in Rational Design and Materials of High-Performance Stretchable Electromechanical Sensors. Small, 2020, 16, e1905707. | 5.2 | 46 |
| 31 | High temperature silicon-carbide-based flexible electronics for monitoring hazardous environments. Journal of Hazardous Materials, 2020, 394, 122486. | 6.5 | 15 |
| 32 | Paper-Based Electronics Using Graphite and Silver Nanoparticles for Respiration Monitoring. IEEE Sensors Journal, 2019, 19, 11784-11790. | 2.4 | 30 |
| 33 | Ultra-Sensitive OPTO-Piezoresistive Sensors Utilising 3C-SiC/Si Heterostructures. , 2019, , . | | 3 |
| 34 | Giant piezoresistive effect by optoelectronic coupling in a heterojunction. Nature Communications, 2019, 10, 4139. | 5.8 | 46 |
| 35 | 3C-SiC/Si Heterostructure: An Excellent Platform for Position-Sensitive Detectors Based on Photovoltaic Effect. ACS Applied Materials & Interfaces, 2019, 11, 40980-40987. | 4.0 | 46 |
| 36 | A hot-film air flow sensor for elevated temperatures. Review of Scientific Instruments, 2019, 90, 015007. | 0.6 | 13 |

| # | ARTICLE | IF | CITATIONS |
|----|--|-----|-----------|
| 37 | Influence of cobalt ions on the anodic oxidation of a lead alloy under conditions typical of copper electrowinning. Journal of Applied Electrochemistry, 2008, 38, 215-224. | 1.5 | 9 |
| 38 | Influence of lead dioxide surface films on anodic oxidation of a lead alloy under conditions typical of copper electrowinning. Journal of Applied Electrochemistry, 2008, 38, 569-577. | 1.5 | 14 |