

# Thanh Nguyen

## List of Publications by Year in descending order

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Version: 2024-02-01

38  
papers

664  
citations

623574

14  
h-index

580701

25  
g-index

38  
all docs

38  
docs citations

38  
times ranked

510  
citing authors

#	ARTICLE	IF	CITATIONS
1	Stretchable respiration sensors: Advanced designs and multifunctional platforms for wearable physiological monitoring. <i>Biosensors and Bioelectronics</i> , 2020, 166, 112460.	5.3	129
2	Advances in ultrasensitive piezoresistive sensors: from conventional to flexible and stretchable applications. <i>Materials Horizons</i> , 2021, 8, 2123-2150.	6.4	61
3	Giant piezoresistive effect by optoelectronic coupling in a heterojunction. <i>Nature Communications</i> , 2019, 10, 4139.	5.8	46
4	3C-SiC/Si Heterostructure: An Excellent Platform for Position-Sensitive Detectors Based on Photovoltaic Effect. <i>ACS Applied Materials &amp; Interfaces</i> , 2019, 11, 40980-40987.	4.0	46
5	Advances in Rational Design and Materials of High-Performance Stretchable Electromechanical Sensors. <i>Small</i> , 2020, 16, e1905707.	5.2	46
6	Paper-Based Electronics Using Graphite and Silver Nanoparticles for Respiration Monitoring. <i>IEEE Sensors Journal</i> , 2019, 19, 11784-11790.	2.4	30
7	Ultra-sensitive self-powered position-sensitive detector based on horizontally-aligned double 3C-SiC/Si heterostructures. <i>Nano Energy</i> , 2021, 79, 105494.	8.2	25
8	Opto-electronic coupling in semiconductors: towards ultrasensitive pressure sensing. <i>Journal of Materials Chemistry C</i> , 2020, 8, 4713-4721.	2.7	22
9	Wide-Band-Gap Semiconductors for Biointegrated Electronics: Recent Advances and Future Directions. <i>ACS Applied Electronic Materials</i> , 2021, 3, 1959-1981.	2.0	21
10	A Wearable, Bending-Insensitive Respiration Sensor Using Highly Oriented Carbon Nanotube Film. <i>IEEE Sensors Journal</i> , 2021, 21, 7308-7315.	2.4	20
11	Optothermotronic effect as an ultrasensitive thermal sensing technology for solid-state electronics. <i>Science Advances</i> , 2020, 6, eaay2671.	4.7	19
12	Self-powered monolithic accelerometer using a photonic gate. <i>Nano Energy</i> , 2020, 76, 104950.	8.2	18
13	High temperature silicon-carbide-based flexible electronics for monitoring hazardous environments. <i>Journal of Hazardous Materials</i> , 2020, 394, 122486.	6.5	15
14	Piezotronic effect in a normally off p-GaN/AlGaN/GaN HEMT toward highly sensitive pressure sensor. <i>Applied Physics Letters</i> , 2021, 118, 242104.	1.5	15
15	Enhanced Electrohydrodynamics for Electrospinning a Highly Sensitive Flexible Fiber-Based Piezoelectric Sensor. <i>ACS Applied Electronic Materials</i> , 2022, 4, 1301-1310.	2.0	15
16	Influence of lead dioxide surface films on anodic oxidation of a lead alloy under conditions typical of copper electrowinning. <i>Journal of Applied Electrochemistry</i> , 2008, 38, 569-577.	1.5	14
17	A hot-film air flow sensor for elevated temperatures. <i>Review of Scientific Instruments</i> , 2019, 90, 015007.	0.6	13
18	Effects of photogenerated-hole diffusion on 3C-SiC/Si heterostructure optoelectronic position-sensitive detector. <i>Journal Physics D: Applied Physics</i> , 2021, 54, 265101.	1.3	13

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19	In-air particle generation by on-chip electrohydrodynamics. <i>Lab on A Chip</i> , 2021, 21, 1779-1787.	3.1	11
20	Piezoresistive Effect with a Gauge Factor of $18 \times 10^3$ in a Semiconductor Heterojunction Modulated by Bonded Light-Emitting Diodes. <i>ACS Applied Materials &amp; Interfaces</i> , 2021, 13, 35046-35053.	4.0	11
21	The concept of light-harvesting, self-powered mechanical sensors using a monolithic structure. <i>Nano Energy</i> , 2022, 96, 107030.	8.2	10
22	Influence of cobalt ions on the anodic oxidation of a lead alloy under conditions typical of copper electrowinning. <i>Journal of Applied Electrochemistry</i> , 2008, 38, 215-224.	1.5	9
23	Electrospray propelled by ionic wind in a bipolar system for direct delivery of charge reduced nanoparticles. <i>Applied Physics Express</i> , 2021, 14, 055001.	1.1	9
24	Generation of a Charge Carrier Gradient in a 3C-SiC/Si Heterojunction with Asymmetric Configuration. <i>ACS Applied Materials &amp; Interfaces</i> , 2021, 13, 55329-55338.	4.0	9
25	Ultrasensitive Self-Powered Position-Sensitive Detector Based on n-3C-SiC/p-Si Heterojunctions. <i>ACS Applied Electronic Materials</i> , 2022, 4, 768-775.	2.0	9
26	Engine performance and combustion characteristics of a direct injection compression ignition engine fueled waste cooking oil synthetic diesel. <i>International Journal of Coal Science and Technology</i> , 2020, 7, 560-570.	2.7	6
27	AlGaIn/GaN 2-D Electron Gas for Highly Sensitive and High-Temperature Current Sensing. <i>IEEE Transactions on Electron Devices</i> , 2021, 68, 1495-1500.	1.6	4
28	Ultra-Sensitive OPTO-Piezoresistive Sensors Utilising 3C-SiC/Si Heterostructures. , 2019, , .		3
29	Optoelectronic Enhancement for Piezoresistive Pressure Sensor. , 2020, , .		3
30	Light-Harvesting Self-Powered Monolithic-Structure Temperature Sensing Based on 3C-SiC/Si Heterostructure. <i>ACS Applied Materials &amp; Interfaces</i> , 2022, 14, 22593-22600.	4.0	3
31	Stretchable, Skin-Breathable, and Ultrasensitive Respiration Sensor Using Graphite on Paper With Smart Structures. <i>IEEE Sensors Journal</i> , 2022, 22, 16804-16810.	2.4	3
32	Electric Field-Enhanced Electrohydrodynamic Process For Fabrication of Highly Sensitive Piezoelectric Sensor. , 2022, , .		2
33	Physical Sensors: Thermal Sensors. , 2021, , .		1
34	Neuromorphic processing at 11 Tera-OPs with soliton crystal Kerr microcombs. , 2021, , .		1
35	Seebeck coefficient in SiC/Si heterojunction for self-powered thermal sensor. , 2021, , .		1
36	Design and fabrication of paper-based stretchable sensor for respiration monitoring. , 2021, , .		1

#	ARTICLE	IF	CITATIONS
37	Ultrasensitive strain sensor enhanced by Bonded Light Emitting Diodes. , 2021, , .		0
38	Rapid Fabrication of High-responsivity Photodetectors Utilizing AlGaIn/GaN on Sapphire. , 2021, , .		0