

# Dzung Viet Dao

## List of Publications by Year in descending order

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320  
papers

5,540  
citations

76294

40  
h-index

138417

58  
g-index

324  
all docs

324  
docs citations

324  
times ranked

4358  
citing authors

#	ARTICLE	IF	CITATIONS
1	Natural fiber-reinforced composites: A review on material, manufacturing, and machinability. <i>Journal of Thermoplastic Composite Materials</i> , 2021, 34, 238-284.	2.6	220
2	The Piezoresistive Effect of SiC for MEMS Sensors at High Temperatures: A Review. <i>Journal of Microelectromechanical Systems</i> , 2015, 24, 1663-1677.	1.7	203
3	Stretchable respiration sensors: Advanced designs and multifunctional platforms for wearable physiological monitoring. <i>Biosensors and Bioelectronics</i> , 2020, 166, 112460.	5.3	129
4	Environment-friendly carbon nanotube based flexible electronics for noninvasive and wearable healthcare. <i>Journal of Materials Chemistry C</i> , 2016, 4, 10061-10068.	2.7	119
5	Thermoresistive Effect for Advanced Thermal Sensors: Fundamentals, Design Considerations, and Applications. <i>Journal of Microelectromechanical Systems</i> , 2017, 26, 966-986.	1.7	108
6	Long-Lived, Transferred Crystalline Silicon Carbide Nanomembranes for Implantable Flexible Electronics. <i>ACS Nano</i> , 2019, 13, 11572-11581.	7.3	101
7	Graphite on paper as material for sensitive thermoresistive sensors. <i>Journal of Materials Chemistry C</i> , 2015, 3, 8776-8779.	2.7	98
8	Digital polymerase chain reaction technology – recent advances and future perspectives. <i>Lab on A Chip</i> , 2018, 18, 3717-3732.	3.1	98
9	Integrated photonic platform for quantum information with continuous variables. <i>Science Advances</i> , 2018, 4, eaat9331.	4.7	93
10	Fundamental piezoresistive coefficients of p-type single crystalline 3C-SiC. <i>Applied Physics Letters</i> , 2014, 104, .	1.5	70
11	Development of miniaturized 6-axis accelerometer utilizing piezoresistive sensing elements. <i>Sensors and Actuators A: Physical</i> , 2007, 134, 310-320.	2.0	69
12	Thermal Flow Sensors for Harsh Environments. <i>Sensors</i> , 2017, 17, 2061.	2.1	68
13	Advances in ultrasensitive piezoresistive sensors: from conventional to flexible and stretchable applications. <i>Materials Horizons</i> , 2021, 8, 2123-2150.	6.4	61
14	Highly sensitive 4H-SiC pressure sensor at cryogenic and elevated temperatures. <i>Materials and Design</i> , 2018, 156, 441-445.	3.3	60
15	Thickness dependence of the piezoresistive effect in p-type single crystalline 3C-SiC nanothin films. <i>Journal of Materials Chemistry C</i> , 2014, 2, 7176-7179.	2.7	58
16	Development of a dual-axis thermal convective gas gyroscope. <i>Journal of Micromechanics and Microengineering</i> , 2006, 16, 1301-1306.	1.5	56
17	Development and Analysis of a Sliding Tactile Soft Fingertip Embedded With a Microforce/Moment Sensor. <i>IEEE Transactions on Robotics</i> , 2011, 27, 411-424.	7.3	56
18	Piezoresistive effect in p-type 3C-SiC at high temperatures characterized using Joule heating. <i>Scientific Reports</i> , 2016, 6, 28499.	1.6	55

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19	Solvent-free fabrication of biodegradable hot-film flow sensor for noninvasive respiratory monitoring. <i>Journal Physics D: Applied Physics</i> , 2017, 50, 215401.	1.3	54
20	Ultrahigh-sensitive WO <sub>3</sub> nanosensor with interdigitated Au nano-electrode for NO <sub>2</sub> detection. <i>Sensors and Actuators B: Chemical</i> , 2008, 132, 234-238.	4.0	53
21	A survey of practical equations for prediction of effective thermal conductivity of spherical-particle nanofluids. <i>Journal of Molecular Liquids</i> , 2015, 211, 712-733.	2.3	53
22	Development of PZT Actuated Valveless Micropump. <i>Sensors</i> , 2018, 18, 1302.	2.1	53
23	Piezoresistive Effect of p-Type Single Crystalline 3C-SiC Thin Film. <i>IEEE Electron Device Letters</i> , 2014, 35, 399-401.	2.2	51
24	Active demultiplexing of single photons from a solid-state source. <i>Laser and Photonics Reviews</i> , 2017, 11, 1600297.	4.4	51
25	Coalescence Processes of Droplets and Liquid Marbles. <i>Micromachines</i> , 2017, 8, 336.	1.4	50
26	Single-Crystalline 3C-SiC anodically Bonded onto Glass: An Excellent Platform for High-Temperature Electronics and Bioapplications. <i>ACS Applied Materials &amp; Interfaces</i> , 2017, 9, 27365-27371.	4.0	49
27	Highly sensitive pressure sensors employing 3C-SiC nanowires fabricated on a free standing structure. <i>Materials and Design</i> , 2018, 156, 16-21.	3.3	49
28	Investigation of strain sensing effect in modified single-defect photonic crystal nanocavity. <i>Optics Express</i> , 2011, 19, 8821.	1.7	48
29	Giant piezoresistive effect by optoelectronic coupling in a heterojunction. <i>Nature Communications</i> , 2019, 10, 4139.	5.8	46
30	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
31	Advances in Rational Design and Materials of High-Performance Stretchable Electromechanical Sensors. <i>Small</i> , 2020, 16, e1905707.	5.2	46
32	Fabrication and analysis of high-performance piezoelectric MEMS generators. <i>Journal of Micromechanics and Microengineering</i> , 2012, 22, 065017.	1.5	45
33	The Piezoresistive Effect in Top-Down Fabricated p-Type 3C-SiC Nanowires. <i>IEEE Electron Device Letters</i> , 2016, 37, 1029-1032.	2.2	45
34	Deformation of a floating liquid marble. <i>Soft Matter</i> , 2015, 11, 4576-4583.	1.2	44
35	Liquid marbles as biochemical reactors for the polymerase chain reaction. <i>Lab on A Chip</i> , 2019, 19, 3220-3227.	3.1	44
36	Self-Powered Broadband (UV-NIR) Photodetector Based on 3C-SiC/Si Heterojunction. <i>IEEE Transactions on Electron Devices</i> , 2019, 66, 1804-1809.	1.6	44

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37	Floating mechanism of a small liquid marble. <i>Scientific Reports</i> , 2016, 6, 21777.	1.6	43
38	Biosensors and Chemical Sensors for Healthcare Monitoring: A Review. <i>IEEJ Transactions on Electrical and Electronic Engineering</i> , 2022, 17, 626-636.	0.8	43
39	Micro/nano-mechanical sensors and actuators based on SOI-MEMS technology. <i>Journal of Family Business Management</i> , 2010, 1, 013001.	2.6	42
40	Charge transport and activation energy of amorphous silicon carbide thin film on quartz at elevated temperature. <i>Applied Physics Express</i> , 2015, 8, 061303.	1.1	41
41	Experimental Investigation of Piezoresistive Effect in p-Type 4H-SiC. <i>IEEE Electron Device Letters</i> , 2017, 38, 955-958.	2.2	41
42	An On-Chip SiC MEMS Device with Integrated Heating, Sensing, and Microfluidic Cooling Systems. <i>Advanced Materials Interfaces</i> , 2018, 5, 1800764.	1.9	41
43	Advances in electrode and electrolyte improvements in vanadium redox flow batteries with a focus on the nanofluidic electrolyte approach. <i>Physics Reports</i> , 2020, 881, 1-49.	10.3	41
44	Piezoresistive effect of p-type single crystalline 3C-SiC on (111) plane. <i>RSC Advances</i> , 2016, 6, 21302-21307.	1.7	40
45	Piezoresistive effect of p-type silicon nanowires fabricated by a top-down process using FIB implantation and wet etching. <i>RSC Advances</i> , 2015, 5, 82121-82126.	1.7	39
46	Thermoresistive properties of p-type 3C-SiC nanoscale thin films for high-temperature MEMS thermal-based sensors. <i>RSC Advances</i> , 2015, 5, 106083-106086.	1.7	38
47	Pressure and temperature sensitive e-skin for in situ robotic applications. <i>Materials and Design</i> , 2021, 208, 109886.	3.3	38
48	Excellent Rectifying Properties of the n-3C-SiC/p-Si Heterojunction Subjected to High Temperature Annealing for Electronics, MEMS, and LED Applications. <i>Scientific Reports</i> , 2017, 7, 17734.	1.6	37
49	Highly sensitive 3C-SiC on glass based thermal flow sensor realized using MEMS technology. <i>Sensors and Actuators A: Physical</i> , 2018, 279, 293-305.	2.0	37
50	Nano strain-amplifier: Making ultra-sensitive piezoresistance in nanowires possible without the need of quantum and surface charge effects. <i>Applied Physics Letters</i> , 2016, 109, .	1.5	36
51	Liquid marble coalescence via vertical collision. <i>Soft Matter</i> , 2018, 14, 4160-4168.	1.2	36
52	Evaporation dynamics of liquid marbles at elevated temperatures. <i>RSC Advances</i> , 2018, 8, 15436-15443.	1.7	36
53	Evaporation of Ethanol-Water Binary Mixture Sessile Liquid Marbles. <i>Langmuir</i> , 2016, 32, 6097-6104.	1.6	35
54	A 2-DOF convective micro accelerometer with a low thermal stress sensing element. <i>Smart Materials and Structures</i> , 2007, 16, 2308-2314.	1.8	32

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55	Fabrication and Basic Characterization of a Piezoelectric Valveless Micro Jet Pump. Japanese Journal of Applied Physics, 2008, 47, 8615.	0.8	32
56	Micromachined NH <sub>3</sub> Gas Sensor with ppb-level Sensitivity Based on WO <sub>3</sub> Nanoparticles Thinfilm. Procedia Engineering, 2011, 25, 1149-1152.	1.2	31
57	Core-Shell Beads Made by Composite Liquid Marble Technology as A Versatile Microreactor for Polymerase Chain Reaction. Micromachines, 2020, 11, 242.	1.4	31
58	Design and fabrication of a miniaturized six-degree-of-freedom piezoresistive accelerometer. Journal of Micromechanics and Microengineering, 2005, 15, 1745-1753.	1.5	30
59	Development of a Dual-Axis Convective Gyroscope With Low Thermal-Induced Stress Sensing Element. Journal of Microelectromechanical Systems, 2007, 16, 950-958.	1.7	30
60	Electrical Properties of p-type 3C-SiC/Si Heterojunction Diode Under Mechanical Stress. IEEE Electron Device Letters, 2014, 35, 1293-1295.	2.2	30
61	Paper-Based Electronics Using Graphite and Silver Nanoparticles for Respiration Monitoring. IEEE Sensors Journal, 2019, 19, 11784-11790.	2.4	30
62	Advances in Si and SiC Materials for High-Performance Supercapacitors toward Integrated Energy Storage Systems. Small, 2021, 17, e2101775.	5.2	30
63	Thermo-electro-rheological behaviour of vanadium electrolyte-based electrochemical graphene oxide nanofluid designed for redox flow battery. Journal of Molecular Liquids, 2021, 338, 116860.	2.3	30
64	The effect of strain on the electrical conductance of p-type nanocrystalline silicon carbide thin films. Journal of Materials Chemistry C, 2015, 3, 1172-1176.	2.7	29
65	Self-sensing paper-based actuators employing ferromagnetic nanoparticles and graphite. Applied Physics Letters, 2017, 110, .	1.5	29
66	Simulation, fabrication and characterization of a three-axis piezoresistive accelerometer. Smart Materials and Structures, 2006, 15, 1691-1699.	1.8	28
67	High thermosensitivity of silicon nanowires induced by amorphization. Materials Letters, 2016, 177, 80-84.	1.3	28
68	High-temperature tolerance of the piezoresistive effect in p-4H-SiC for harsh environment sensing. Journal of Materials Chemistry C, 2018, 6, 8613-8617.	2.7	28
69	Flexible and multifunctional electronics fabricated by a solvent-free and user-friendly method. RSC Advances, 2016, 6, 77267-77274.	1.7	27
70	Integrated CNTs thin film for MEMS mechanical sensors. Microelectronics Journal, 2010, 41, 860-864.	1.1	26
71	Pushing the Limits of Piezoresistive Effect by Optomechanical Coupling in 3C-SiC/Si Heterostructure. ACS Applied Materials & Interfaces, 2017, 9, 39921-39925.	4.0	26
72	Robust Free-Standing Nano-Thin SiC Membranes Enable Direct Photolithography for MEMS Sensing Applications. Advanced Engineering Materials, 2018, 20, 1700858.	1.6	26

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73	Integration of SWNT film into MEMS for a micro-thermoelectric device. Smart Materials and Structures, 2010, 19, 075003.	1.8	25
74	Orientation dependence of the pseudo-Hall effect in p-type 3C-SiC four-terminal devices under mechanical stress. RSC Advances, 2015, 5, 56377-56381.	1.7	25
75	The effect of device geometry and crystal orientation on the stress-dependent offset voltage of 3C-SiC(100) four terminal devices. Journal of Materials Chemistry C, 2015, 3, 8804-8809.	2.7	25
76	The Dependence of Offset Voltage in p-Type 3C-SiC van der Pauw Device on Applied Strain. IEEE Electron Device Letters, 2015, 36, 708-710.	2.2	25
77	Novel Low-Cost Sensor for Human Bite Force Measurement. Sensors, 2016, 16, 1244.	2.1	25
78	Ultra-sensitive self-powered position-sensitive detector based on horizontally-aligned double 3C-SiC/Si heterostructures. Nano Energy, 2021, 79, 105494.	8.2	25
79	Simulation and Fabrication of a Convective Gyroscope. IEEE Sensors Journal, 2008, 8, 1530-1538.	2.4	24
80	Versatile microfluidic total internal reflection (TIR)-based devices: Application to microbeads velocity measurement and single molecule detection with upright and inverted microscope. Lab on A Chip, 2009, 9, 244-250.	3.1	24
81	Fabrication and testing of polymer cantilevers for VOC sensors. Sensors and Actuators A: Physical, 2013, 202, 233-239.	2.0	24
82	Dielectrophoretic Trapping of a Floating Liquid Marble. Physical Review Applied, 2019, 11, .	1.5	24
83	Measuring the Coefficient of Friction of a Small Floating Liquid Marble. Scientific Reports, 2016, 6, 38346.	1.6	23
84	High Power and Reliable SPST/SP3T RF MEMS Switches for Wireless Applications. IEEE Electron Device Letters, 2016, 37, 1219-1222.	2.2	23
85	Hydrogen sensor based on palladium-yttrium alloy nanosheet. Materials Chemistry and Physics, 2017, 194, 231-235.	2.0	23
86	A multi axis fluidic inertial sensor. , 2008, , .		22
87	Design and Simulation of a Novel 3-DOF MEMS Convective Gyroscope. IEJ Transactions on Sensors and Micromachines, 2008, 128, 219-224.	0.0	22
88	Unintentionally Doped Epitaxial 3C-SiC(111) Nanothin Film as Material for Highly Sensitive Thermal Sensors at High Temperatures. IEEE Electron Device Letters, 2018, 39, 580-583.	2.2	22
89	Isotropic piezoresistance of p-type 4H-SiC in (0001) plane. Applied Physics Letters, 2018, 113, .	1.5	22
90	Opto-electronic coupling in semiconductors: towards ultrasensitive pressure sensing. Journal of Materials Chemistry C, 2020, 8, 4713-4721.	2.7	22

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91	Straight movement of micro containers based on ratchet mechanisms and electrostatic comb-drive actuators. <i>Journal of Micromechanics and Microengineering</i> , 2006, 16, 2532-2538.	1.5	21
92	Ultra-high strain in epitaxial silicon carbide nanostructures utilizing residual stress amplification. <i>Applied Physics Letters</i> , 2017, 110, 141906.	1.5	21
93	RF MEMS switches for smart antennas. <i>Microsystem Technologies</i> , 2015, 21, 487-495.	1.2	20
94	Onset of thermomagnetic convection around a vertically oriented hot-wire in ferrofluid. <i>Journal of Magnetism and Magnetic Materials</i> , 2018, 456, 300-306.	1.0	20
95	A Wearable, Bending-Insensitive Respiration Sensor Using Highly Oriented Carbon Nanotube Film. <i>IEEE Sensors Journal</i> , 2021, 21, 7308-7315.	2.4	20
96	Fabrication and Characterization of Smooth Si Mold for Hot Embossing Process. <i>IEEJ Transactions on Sensors and Micromachines</i> , 2007, 127, 187-191.	0.0	19
97	Superior Robust Ultrathin Single-Crystalline Silicon Carbide Membrane as a Versatile Platform for Biological Applications. <i>ACS Applied Materials &amp; Interfaces</i> , 2017, 9, 41641-41647.	4.0	19
98	Highly sensitive p-type 4H-SiC van der Pauw sensor. <i>RSC Advances</i> , 2018, 8, 3009-3013.	1.7	19
99	Optothermotronic effect as an ultrasensitive thermal sensing technology for solid-state electronics. <i>Science Advances</i> , 2020, 6, eaay2671.	4.7	19
100	Design, simulation and fabrication of a total internal reflection (TIR)-based chip for highly sensitive fluorescent imaging. <i>Journal of Micromechanics and Microengineering</i> , 2007, 17, 1139-1146.	1.5	18
101	Strain Sensitive Effect in a Triangular Lattice Photonic Crystal Hole-Modified Nanocavity. <i>IEEE Sensors Journal</i> , 2011, 11, 2657-2663.	2.4	18
102	Self-powered monolithic accelerometer using a photonic gate. <i>Nano Energy</i> , 2020, 76, 104950.	8.2	18
103	Piezoelectric MEMS low-level vibration energy harvester with PMN-PT single crystal cantilever. <i>Electronics Letters</i> , 2012, 48, 784.	0.5	17
104	Pseudo-Hall effect in single crystal 3C-SiC(111) four-terminal devices. <i>Journal of Materials Chemistry C</i> , 2015, 3, 12394-12398.	2.7	17
105	Low-Cost Graphite on Paper Pressure Sensor for a Robot Gripper with a Trivial Fabrication Process. <i>Sensors</i> , 2018, 18, 3300.	2.1	17
106	Photoresponse of a Highly-Rectifying 3C-SiC/Si Heterostructure Under UV and Visible Illuminations. <i>IEEE Electron Device Letters</i> , 2018, 39, 1219-1222.	2.2	17
107	Accurate dielectrophoretic positioning of a floating liquid marble with a two-electrode configuration. <i>Microfluidics and Nanofluidics</i> , 2019, 23, 1.	1.0	17
108	An automated on-demand liquid marble generator based on electrohydrodynamic pulling. <i>Review of Scientific Instruments</i> , 2019, 90, 055102.	0.6	17

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109	Polyacrylonitrile-carbon Nanotube-polyacrylonitrile: A Versatile Robust Platform for Flexible Multifunctional Electronic Devices in Medical Applications. <i>Macromolecular Materials and Engineering</i> , 2019, 304, 1900014.	1.7	17
110	Reduced graphene oxide nanofluidic electrolyte with improved electrochemical properties for vanadium flow batteries. <i>Journal of Energy Storage</i> , 2022, 49, 104133.	3.9	17
111	Drilling Behavior of Flax/Poly(Lactic Acid) Bio-Composite Laminates: An Experimental Investigation. <i>Journal of Natural Fibers</i> , 2020, 17, 1264-1280.	1.7	16
112	A micro transportation system (MTS) with large movement of containers driven by electrostatic comb-drive actuators. <i>Journal of Micromechanics and Microengineering</i> , 2007, 17, 2125-2131.	1.5	15
113	Thermomagnetic Convection Around a Current-Carrying Wire in Ferrofluid. <i>Journal of Heat Transfer</i> , 2017, 139, .	1.2	15
114	Electrically Stable Carbon Nanotube Yarn Under Tensile Strain. <i>IEEE Electron Device Letters</i> , 2017, 38, 1331-1334.	2.2	15
115	Numerical simulation of combined natural and thermomagnetic convection around a current carrying wire in ferrofluid. <i>Journal of Magnetism and Magnetic Materials</i> , 2019, 489, 165383.	1.0	15
116	Critical Trapping Conditions for Floating Liquid Marbles. <i>Physical Review Applied</i> , 2020, 13, .	1.5	15
117	A new structure of Tesla coupled nozzle in synthetic jet micro-pump. <i>Sensors and Actuators A: Physical</i> , 2020, 315, 112296.	2.0	15
118	High temperature silicon-carbide-based flexible electronics for monitoring hazardous environments. <i>Journal of Hazardous Materials</i> , 2020, 394, 122486.	6.5	15
119	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
120	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
121	A miniaturized transient hot-wire device for measuring thermal conductivity of non-conductive fluids. <i>Microsystem Technologies</i> , 2016, 22, 2463-2466.	1.2	14
122	Electrical Resistance of Carbon Nanotube Yarns Under Compressive Transverse Pressure. <i>IEEE Electron Device Letters</i> , 2018, 39, 584-587.	2.2	14
123	Charge reduced nanoparticles by sub-kHz ac electrohydrodynamic atomization toward drug delivery applications. <i>Applied Physics Letters</i> , 2020, 116, .	1.5	14
124	Vibration analysis of initially curved single walled carbon nanotube with vacancy defect for ultrahigh frequency nanoresonators. <i>Microsystem Technologies</i> , 2016, 22, 1115-1120.	1.2	13
125	A hot-film air flow sensor for elevated temperatures. <i>Review of Scientific Instruments</i> , 2019, 90, 015007.	0.6	13
126	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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127	Convective Gas Gyroscope Based on Thermo-Resistive Effect in Si P-N Junction. , 2007, , .		12
128	Multimodule Micro Transportation System Based on Electrostatic Comb-Drive Actuator and Ratchet Mechanism. Journal of Microelectromechanical Systems, 2011, 20, 140-149.	1.7	12
129	A micromirror with CNTs hinge fabricated by the integration of CNTs film into a MEMS actuator. Journal of Micromechanics and Microengineering, 2013, 23, 075024.	1.5	12
130	Micromachined Coreless Single-Layer Transformer Without Crossovers. IEEE Magnetics Letters, 2015, 6, 1-4.	0.6	12
131	3Câ€SiC on glass: an ideal platform for temperature sensors under visible light illumination. RSC Advances, 2016, 6, 87124-87127.	1.7	12
132	Degraded boiling heat transfer from hotwire in ferrofluid due to particle deposition. Applied Thermal Engineering, 2018, 142, 255-261.	3.0	12
133	Wireless Battery-Free SiC Sensors Operating in Harsh Environments Using Resonant Inductive Coupling. IEEE Electron Device Letters, 2019, 40, 609-612.	2.2	12
134	Highly-doped SiC resonator with ultra-large tuning frequency range by Joule heating effect. Materials and Design, 2020, 194, 108922.	3.3	12
135	A dual axis thermal convective silicon gyroscope. , 0, , .		11
136	Development of polymer electrostatic comb-drive actuator using hot embossing and ultraprecision cutting technology. Journal of Micro/ Nanolithography, MEMS, and MOEMS, 2009, 8, 043065.	1.0	11
137	Graphite-on-paper based tactile sensors using plastic laminating technique. , 2015, , .		11
138	Influence of external mechanical stress on electrical properties of single-crystal n-3C-SiC/p-Si heterojunction diode. Applied Physics Express, 2015, 8, 061302.	1.1	11
139	A Novel Three-State Contactless RF Micromachined Switch for Wireless Applications. IEEE Electron Device Letters, 2015, 36, 1363-1365.	2.2	11
140	Thermoresistance of p â€Type 4Hâ€SiC Integrated MEMS Devices for Highâ€Temperature Sensing. Advanced Engineering Materials, 2019, 21, 1801049.	1.6	11
141	Demodulation Band Optimization in Envelope Analysis for Fault Diagnosis of Rolling Element Bearings Using a Real-Coded Genetic Algorithm. IEEE Access, 2019, 7, 168828-168838.	2.6	11
142	In-air particle generation by on-chip electrohydrodynamics. Lab on A Chip, 2021, 21, 1779-1787.	3.1	11
143	Piezoresistive Effect with a Gauge Factor of 18â€000 in a Semiconductor Heterojunction Modulated by Bonded Light-Emitting Diodes. ACS Applied Materials & Interfaces, 2021, 13, 35046-35053.	4.0	11
144	Multimodal Fibrous Static and Dynamic Tactile Sensor. ACS Applied Materials & Interfaces, 2022, 14, 27317-27327.	4.0	11

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145	Novel fabrication process for a monolithic PMMA torsion mirror and vertical comb actuator. Journal of Micromechanics and Microengineering, 2011, 21, 065032.	1.5	10
146	Development of polymer MEMS process technology as an approach to a sustainable production system. Advances in Natural Sciences: Nanoscience and Nanotechnology, 2012, 3, 015009.	0.7	10
147	A large pseudo-Hall effect in n-type 3C-SiC(1 0 0) and its dependence on crystallographic orientation for stress sensing applications. Materials Letters, 2018, 213, 11-14.	1.3	10
148	The concept of light-harvesting, self-powered mechanical sensors using a monolithic structure. Nano Energy, 2022, 96, 107030.	8.2	10
149	Piezo-Hall effect in single crystal p-type 3C-SiC(100) thin film grown by low pressure chemical vapor deposition. RSC Advances, 2016, 6, 31191-31195.	1.7	9
150	Steady-state analytical model of suspended p-type 3C-SiC bridges under consideration of Joule heating. Journal of Micromechanics and Microengineering, 2017, 27, 075008.	1.5	9
151	A Generalized Analytical Model for Joule Heating of Segmented Wires. Journal of Heat Transfer, 2018, 140, .	1.2	9
152	Characterization of the piezoresistance in highly doped p-type 3C-SiC at cryogenic temperatures. RSC Advances, 2018, 8, 29976-29979.	1.7	9
153	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
154	Influence of gallium ion beam acceleration voltage on the bend angle of amorphous silicon cantilevers. Japanese Journal of Applied Physics, 2016, 55, 06GL02.	0.8	9
155	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
156	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
157	A Dual Axis Accelerometer Utilizing Low Doped Silicon Thermistor. IEEJ Transactions on Sensors and Micromachines, 2006, 126, 190-194.	0.0	8
158	A Fully Integrated MEMS-Based Convective 3-DOF Gyroscope. , 2007, , .		8
159	Towards highly sensitive strain sensing based on nanostructured materials. Advances in Natural Sciences: Nanoscience and Nanotechnology, 2010, 1, 045012.	0.7	8
160	Environment-friendly wearable thermal flow sensors for noninvasive respiratory monitoring. , 2017, , .		8
161	Soft ionic liquid multi-point touch sensor. RSC Advances, 2019, 9, 10733-10738.	1.7	8
162	Effect of Drilling Parameters on Delamination and Hole Quality in Drilling Flax Fiber Reinforced Bio-Composites. Smart Innovation, Systems and Technologies, 2019, , 71-81.	0.5	8

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163	Noise and frequency analyses of a miniaturized 3-DOF accelerometer utilizing silicon nanowire piezoresistors. , 0, , .		7
164	Ultra miniature novel three-axis micro accelerometer. , 2009, , .		7
165	Evaluation of the piezoresistive effect in single crystalline silicon nanowires. , 2009, , .		7
166	Fabrication of optically smooth, through-wafer silicon molds for PDMS total internal reflection-based devices. <i>Microsystem Technologies</i> , 2009, 15, 1845-1853.	1.2	7
167	Characterization of the piezoresistive effect and temperature coefficient of resistance in single crystalline silicon nanowires. , 2009, , .		7
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