

Dzung Viet Dao

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The third column is the impact factor (IF) of the journal, and the fourth column is the number of citations of the article.

263
papers

3,759
citations

33
h-index

46
g-index

324
ext. papers

4,672
ext. citations

4
avg, IF

5.85
L-index

#	Paper	IF	Citations
263	The Piezoresistive Effect of SiC for MEMS Sensors at High Temperatures: A Review. <i>Journal of Microelectromechanical Systems</i> , 2015 , 24, 1663-1677	2.5	150
262	Environment-friendly carbon nanotube based flexible electronics for noninvasive and wearable healthcare. <i>Journal of Materials Chemistry C</i> , 2016 , 4, 10061-10068	7.1	90
261	Natural fiber reinforced composites: A review on material, manufacturing, and machinability. <i>Journal of Thermoplastic Composite Materials</i> , 2021 , 34, 238-284	1.9	86
260	Graphite on paper as material for sensitive thermoresistive sensors. <i>Journal of Materials Chemistry C</i> , 2015 , 3, 8776-8779	7.1	80
259	. <i>Journal of Microelectromechanical Systems</i> , 2017 , 26, 966-986	2.5	78
258	Long-Lived, Transferred Crystalline Silicon Carbide Nanomembranes for Implantable Flexible Electronics. <i>ACS Nano</i> , 2019 , 13, 11572-11581	16.7	65
257	Integrated photonic platform for quantum information with continuous variables. <i>Science Advances</i> , 2018 , 4, eaat9331	14.3	60
256	Fundamental piezoresistive coefficients of p-type single crystalline 3C-SiC. <i>Applied Physics Letters</i> , 2014 , 104, 111905	3.4	59
255	Stretchable respiration sensors: Advanced designs and multifunctional platforms for wearable physiological monitoring. <i>Biosensors and Bioelectronics</i> , 2020 , 166, 112460	11.8	59
254	Digital polymerase chain reaction technology - recent advances and future perspectives. <i>Lab on a Chip</i> , 2018 , 18, 3717-3732	7.2	59
253	Development of miniaturized 6-axis accelerometer utilizing piezoresistive sensing elements. <i>Sensors and Actuators A: Physical</i> , 2007 , 134, 310-320	3.9	55
252	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	6.5	48
251	Ultrahigh-sensitive WO ₃ nanosensor with interdigitated Au nano-electrode for NO ₂ detection. <i>Sensors and Actuators B: Chemical</i> , 2008 , 132, 234-238	8.5	48
250	Piezoresistive effect in p-type 3C-SiC at high temperatures characterized using Joule heating. <i>Scientific Reports</i> , 2016 , 6, 28499	4.9	47
249	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	7.1	47
248	Development of a dual-axis thermal convective gas gyroscope. <i>Journal of Micromechanics and Microengineering</i> , 2006 , 16, 1301-1306	2	46
247	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	6	45

246	Investigation of strain sensing effect in modified single-defect photonic crystal nanocavity. <i>Optics Express</i> , 2011 , 19, 8821-9	3.3	43
245	Piezoresistive Effect of p-Type Single Crystalline 3C-SiC Thin Film. <i>IEEE Electron Device Letters</i> , 2014 , 35, 399-401	4.4	42
244	The Piezoresistive Effect in TopDown Fabricated p-Type 3C-SiC Nanowires. <i>IEEE Electron Device Letters</i> , 2016 , 37, 1029-1032	4.4	41
243	Single-Crystalline 3C-SiC anodically Bonded onto Glass: An Excellent Platform for High-Temperature Electronics and Bioapplications. <i>ACS Applied Materials & Interfaces</i> , 2017 , 9, 27363-27371	8.5	41
242	Charge transport and activation energy of amorphous silicon carbide thin film on quartz at elevated temperature. <i>Applied Physics Express</i> , 2015 , 8, 061303	2.4	40
241	Thermal Flow Sensors for Harsh Environments. <i>Sensors</i> , 2017 , 17,	3.8	40
240	Deformation of a floating liquid marble. <i>Soft Matter</i> , 2015 , 11, 4576-83	3.6	40
239	Solvent-free fabrication of biodegradable hot-film flow sensor for noninvasive respiratory monitoring. <i>Journal Physics D: Applied Physics</i> , 2017 , 50, 215401	3	39
238	Highly sensitive 4H-SiC pressure sensor at cryogenic and elevated temperatures. <i>Materials and Design</i> , 2018 , 156, 441-445	8.1	39
237	Development of PZT Actuated Valveless Micropump. <i>Sensors</i> , 2018 , 18,	3.8	37
236	Floating mechanism of a small liquid marble. <i>Scientific Reports</i> , 2016 , 6, 21777	4.9	36
235	Active demultiplexing of single photons from a solid-state source. <i>Laser and Photonics Reviews</i> , 2017 , 11, 1600297	8.3	35
234	Fabrication and analysis of high-performance piezoelectric MEMS generators. <i>Journal of Micromechanics and Microengineering</i> , 2012 , 22, 065017	2	35
233	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	3.7	34
232	Experimental Investigation of Piezoresistive Effect in p-Type 4H-SiC. <i>IEEE Electron Device Letters</i> , 2017 , 38, 955-958	4.4	33
231	Coalescence Processes of Droplets and Liquid Marbles. <i>Micromachines</i> , 2017 , 8,	3.3	33
230	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, 123502	3.4	33
229	Evaporation of Ethanol-Water Binary Mixture Sessile Liquid Marbles. <i>Langmuir</i> , 2016 , 32, 6097-104	4	33

228	Piezoresistive effect of p-type single crystalline 3C-SiC on (111) plane. <i>RSC Advances</i> , 2016 , 6, 21302-21307	3.7	31
227	Liquid marbles as biochemical reactors for the polymerase chain reaction. <i>Lab on A Chip</i> , 2019 , 19, 3220-3227	3.7	31
226	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	3.7	31
225	Liquid marble coalescence via vertical collision. <i>Soft Matter</i> , 2018 , 14, 4160-4168	3.6	30
224	Evaporation dynamics of liquid marbles at elevated temperatures.. <i>RSC Advances</i> , 2018 , 8, 15436-15443	3.7	30
223	Highly sensitive pressure sensors employing 3C-SiC nanowires fabricated on a free standing structure. <i>Materials and Design</i> , 2018 , 156, 16-21	8.1	30
222	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	4.9	30
221	Giant piezoresistive effect by optoelectronic coupling in a heterojunction. <i>Nature Communications</i> , 2019 , 10, 4139	17.4	28
220	3C-SiC/Si Heterostructure: An Excellent Platform for Position-Sensitive Detectors Based on Photovoltaic Effect. <i>ACS Applied Materials & Interfaces</i> , 2019 , 11, 40980-40987	9.5	28
219	A 2-DOF convective micro accelerometer with a low thermal stress sensing element. <i>Smart Materials and Structures</i> , 2007 , 16, 2308-2314	3.4	28
218	The effect of strain on the electrical conductance of p-type nanocrystalline silicon carbide thin films. <i>Journal of Materials Chemistry C</i> , 2015 , 3, 1172-1176	7.1	27
217	Electrical Properties of p-type 3C-SiC/Si Heterojunction Diode Under Mechanical Stress. <i>IEEE Electron Device Letters</i> , 2014 , 35, 1293-1295	4.4	27
216	Micro/nano-mechanical sensors and actuators based on SOI-MEMS technology. <i>Journal of Family Business Management</i> , 2010 , 1, 013001	2.2	27
215	An On-Chip SiC MEMS Device with Integrated Heating, Sensing, and Microfluidic Cooling Systems. <i>Advanced Materials Interfaces</i> , 2018 , 5, 1800764	4.6	26
214	Development of a Dual-Axis Convective Gyroscope With Low Thermal-Induced Stress Sensing Element. <i>Journal of Microelectromechanical Systems</i> , 2007 , 16, 950-958	2.5	26
213	High thermosensitivity of silicon nanowires induced by amorphization. <i>Materials Letters</i> , 2016 , 177, 80-84	3.3	26
212	Core-Shell Beads Made by Composite Liquid Marble Technology as A Versatile Microreactor for Polymerase Chain Reaction. <i>Micromachines</i> , 2020 , 11,	3.3	25
211	Self-Powered Broadband (UV-NIR) Photodetector Based on 3C-SiC/Si Heterojunction. <i>IEEE Transactions on Electron Devices</i> , 2019 , 66, 1804-1809	2.9	24

210	Orientation dependence of the pseudo-Hall effect in p-type 3CβiC four-terminal devices under mechanical stress. <i>RSC Advances</i> , 2015 , 5, 56377-56381	3.7	24
209	Fabrication and Basic Characterization of a Piezoelectric Valveless Micro Jet Pump. <i>Japanese Journal of Applied Physics</i> , 2008 , 47, 8615-8618	1.4	24
208	Flexible and multifunctional electronics fabricated by a solvent-free and user-friendly method. <i>RSC Advances</i> , 2016 , 6, 77267-77274	3.7	24
207	The effect of device geometry and crystal orientation on the stress-dependent offset voltage of 3CβiC(100) four terminal devices. <i>Journal of Materials Chemistry C</i> , 2015 , 3, 8804-8809	7.1	23
206	The Dependence of Offset Voltage in p-Type 3C-SiC van der Pauw Device on Applied Strain. <i>IEEE Electron Device Letters</i> , 2015 , 36, 708-710	4.4	23
205	Design and fabrication of a miniaturized six-degree-of-freedom piezoresistive accelerometer. <i>Journal of Micromechanics and Microengineering</i> , 2005 , 15, 1745-1753	2	23
204	Dielectrophoretic Trapping of a Floating Liquid Marble. <i>Physical Review Applied</i> , 2019 , 11,	4.3	22
203	Advances in Rational Design and Materials of High-Performance Stretchable Electromechanical Sensors. <i>Small</i> , 2020 , 16, e1905707	11	22
202	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	3.9	22
201	Pushing the Limits of Piezoresistive Effect by Optomechanical Coupling in 3C-SiC/Si Heterostructure. <i>ACS Applied Materials & Interfaces</i> , 2017 , 9, 39921-39925	9.5	22
200	Fabrication and testing of polymer cantilevers for VOC sensors. <i>Sensors and Actuators A: Physical</i> , 2013 , 202, 233-239	3.9	21
199	Micromachined NH ₃ Gas Sensor with ppb-level Sensitivity Based on WO ₃ Nanoparticles Thinfilm. <i>Procedia Engineering</i> , 2011 , 25, 1149-1152		21
198	Simulation, fabrication and characterization of a three-axis piezoresistive accelerometer. <i>Smart Materials and Structures</i> , 2006 , 15, 1691-1699	3.4	21
197	High-temperature tolerance of the piezoresistive effect in p-4H-SiC for harsh environment sensing. <i>Journal of Materials Chemistry C</i> , 2018 , 6, 8613-8617	7.1	20
196	Integration of SWNT film into MEMS for a micro-thermoelectric device. <i>Smart Materials and Structures</i> , 2010 , 19, 075003	3.4	20
195	Versatile microfluidic total internal reflection (TIR)-based devices: application to microbeads velocity measurement and single molecule detection with upright and inverted microscope. <i>Lab on A Chip</i> , 2009 , 9, 244-50	7.2	20
194	Measuring the Coefficient of Friction of a Small Floating Liquid Marble. <i>Scientific Reports</i> , 2016 , 6, 383464.9		20
193	Hydrogen sensor based on palladium-yttrium alloy nanosheet. <i>Materials Chemistry and Physics</i> , 2017 , 194, 231-235	4.4	19

192	Isotropic piezoresistance of p-type 4H-SiC in (0001) plane. <i>Applied Physics Letters</i> , 2018 , 113, 012104	3.4	19
191	Self-sensing paper-based actuators employing ferromagnetic nanoparticles and graphite. <i>Applied Physics Letters</i> , 2017 , 110, 144101	3.4	18
190	Paper-Based Electronics Using Graphite and Silver Nanoparticles for Respiration Monitoring. <i>IEEE Sensors Journal</i> , 2019 , 19, 11784-11790	4	18
189	Robust Free-Standing Nano-Thin SiC Membranes Enable Direct Photolithography for MEMS Sensing Applications. <i>Advanced Engineering Materials</i> , 2018 , 20, 1700858	3.5	18
188	Integrated CNTs thin film for MEMS mechanical sensors. <i>Microelectronics Journal</i> , 2010 , 41, 860-864	1.8	18
187	A multi axis fluidic inertial sensor 2008 ,		18
186	Ultra-high strain in epitaxial silicon carbide nanostructures utilizing residual stress amplification. <i>Applied Physics Letters</i> , 2017 , 110, 141906	3.4	17
185	RF MEMS switches for smart antennas. <i>Microsystem Technologies</i> , 2015 , 21, 487-495	1.7	17
184	Unintentionally Doped Epitaxial 3C-SiC(111) Nanothin Film as Material for Highly Sensitive Thermal Sensors at High Temperatures. <i>IEEE Electron Device Letters</i> , 2018 , 39, 580-583	4.4	17
183	Simulation and Fabrication of a Convective Gyroscope. <i>IEEE Sensors Journal</i> , 2008 , 8, 1530-1538	4	17
182	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	2	17
181	Pseudo-Hall effect in single crystal 3C-SiC(111) four-terminal devices. <i>Journal of Materials Chemistry C</i> , 2015 , 3, 12394-12398	7.1	16
180	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	27.7	16
179	Onset of thermomagnetic convection around a vertically oriented hot-wire in ferrofluid. <i>Journal of Magnetism and Magnetic Materials</i> , 2018 , 456, 300-306	2.8	15
178	Highly sensitive p-type 4H-SiC van der Pauw sensor.. <i>RSC Advances</i> , 2018 , 8, 3009-3013	3.7	15
177	High Power and Reliable SPST/SP3T RF MEMS Switches for Wireless Applications. <i>IEEE Electron Device Letters</i> , 2016 , 37, 1219-1222	4.4	15
176	Design and Simulation of a Novel 3-DOF MEMS Convective Gyroscope. <i>IEEJ Transactions on Sensors and Micromachines</i> , 2008 , 128, 219-224	0.2	15
175	Fabrication and Characterization of Smooth Si Mold for Hot Embossing Process. <i>IEEJ Transactions on Sensors and Micromachines</i> , 2007 , 127, 187-191	0.2	15

174	Strain Sensitive Effect in a Triangular Lattice Photonic Crystal Hole-Modified Nanocavity. <i>IEEE Sensors Journal</i> , 2011 , 11, 2657-2663	4	14
173	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	2	14
172	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	2	14
171	Critical Trapping Conditions for Floating Liquid Marbles. <i>Physical Review Applied</i> , 2020 , 13,	4.3	14
170	Accurate dielectrophoretic positioning of a floating liquid marble with a two-electrode configuration. <i>Microfluidics and Nanofluidics</i> , 2019 , 23, 1	2.8	13
169	An automated on-demand liquid marble generator based on electrohydrodynamic pulling. <i>Review of Scientific Instruments</i> , 2019 , 90, 055102	1.7	13
168	Superior Robust Ultrathin Single-Crystalline Silicon Carbide Membrane as a Versatile Platform for Biological Applications. <i>ACS Applied Materials & Interfaces</i> , 2017 , 9, 41641-41647	9.5	13
167	Electrically Stable Carbon Nanotube Yarn Under Tensile Strain. <i>IEEE Electron Device Letters</i> , 2017 , 38, 1331-1334	4.4	13
166	Novel Low-Cost Sensor for Human Bite Force Measurement. <i>Sensors</i> , 2016 , 16,	3.8	13
165	A miniaturized transient hot-wire device for measuring thermal conductivity of non-conductive fluids. <i>Microsystem Technologies</i> , 2016 , 22, 2463-2466	1.7	13
164	Thermomagnetic Convection Around a Current-Carrying Wire in Ferrofluid. <i>Journal of Heat Transfer</i> , 2017 , 139,	1.8	12
163	Opto-electronic coupling in semiconductors: towards ultrasensitive pressure sensing. <i>Journal of Materials Chemistry C</i> , 2020 , 8, 4713-4721	7.1	12
162	High temperature silicon-carbide-based flexible electronics for monitoring hazardous environments. <i>Journal of Hazardous Materials</i> , 2020 , 394, 122486	12.8	12
161	Electrical Resistance of Carbon Nanotube Yarns Under Compressive Transverse Pressure. <i>IEEE Electron Device Letters</i> , 2018 , 39, 584-587	4.4	12
160	Piezoelectric MEMS low-level vibration energy harvester with PMN-PT single crystal cantilever. <i>Electronics Letters</i> , 2012 , 48, 784	1.1	12
159	3CBiC on glass: an ideal platform for temperature sensors under visible light illumination. <i>RSC Advances</i> , 2016 , 6, 87124-87127	3.7	12
158	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	2.8	11
157	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	3.9	11

156	Wireless Battery-Free SiC Sensors Operating in Harsh Environments Using Resonant Inductive Coupling. <i>IEEE Electron Device Letters</i> , 2019 , 40, 609-612	4.4	11
155	Self-powered monolithic accelerometer using a photonic gate. <i>Nano Energy</i> , 2020 , 76, 104950	17.1	11
154	A hot-film air flow sensor for elevated temperatures. <i>Review of Scientific Instruments</i> , 2019 , 90, 015007	1.7	10
153	Degraded boiling heat transfer from hotwire in ferrofluid due to particle deposition. <i>Applied Thermal Engineering</i> , 2018 , 142, 255-261	5.8	10
152	Photoresponse of a Highly-Rectifying 3C-SiC/Si Heterostructure Under UV and Visible Illuminations. <i>IEEE Electron Device Letters</i> , 2018 , 39, 1219-1222	4.4	10
151	A micromirror with CNTs hinge fabricated by the integration of CNTs film into a MEMS actuator. <i>Journal of Micromechanics and Microengineering</i> , 2013 , 23, 075024	2	10
150	Ultra-sensitive self-powered position-sensitive detector based on horizontally-aligned double 3C-SiC/Si heterostructures. <i>Nano Energy</i> , 2021 , 79, 105494	17.1	10
149	Steady-state analytical model of suspended p-type 3C-BiC bridges under consideration of Joule heating. <i>Journal of Micromechanics and Microengineering</i> , 2017 , 27, 075008	2	9
148	Influence of external mechanical stress on electrical properties of single-crystal n-3C-SiC/p-Si heterojunction diode. <i>Applied Physics Express</i> , 2015 , 8, 061302	2.4	9
147	Optothermotronic effect as an ultrasensitive thermal sensing technology for solid-state electronics. <i>Science Advances</i> , 2020 , 6, eaay2671	14.3	9
146	Piezo-Hall effect in single crystal p-type 3C-BiC(100) thin film grown by low pressure chemical vapor deposition. <i>RSC Advances</i> , 2016 , 6, 31191-31195	3.7	9
145	Multimodule Micro Transportation System Based on Electrostatic Comb-Drive Actuator and Ratchet Mechanism. <i>Journal of Microelectromechanical Systems</i> , 2011 , 20, 140-149	2.5	9
144	Novel fabrication process for a monolithic PMMA torsion mirror and vertical comb actuator. <i>Journal of Micromechanics and Microengineering</i> , 2011 , 21, 065032	2	9
143	Drilling Behavior of Flax/Poly(Lactic Acid) Bio-Composite Laminates: An Experimental Investigation. <i>Journal of Natural Fibers</i> , 2020 , 17, 1264-1280	1.8	9
142	Advances in ultrasensitive piezoresistive sensors: from conventional to flexible and stretchable applications. <i>Materials Horizons</i> , 2021 , 8, 2123-2150	14.4	9
141	Low-Cost Graphite on Paper Pressure Sensor for a Robot Gripper with a Trivial Fabrication Process. <i>Sensors</i> , 2018 , 18,	3.8	9
140	Vibration analysis of initially curved single walled carbon nanotube with vacancy defect for ultrahigh frequency nanoresonators. <i>Microsystem Technologies</i> , 2016 , 22, 1115-1120	1.7	8
139	A Novel Three-State Contactless RF Micromachined Switch for Wireless Applications. <i>IEEE Electron Device Letters</i> , 2015 , 36, 1363-1365	4.4	8

138	Graphite-on-paper based tactile sensors using plastic laminating technique 2015 ,		8
137	Micromachined Coreless Single-Layer Transformer Without Crossovers. <i>IEEE Magnetics Letters</i> , 2015 , 6, 1-4	1.6	8
136	A large pseudo-Hall effect in n-type 3C-SiC(1 0 0) and its dependence on crystallographic orientation for stress sensing applications. <i>Materials Letters</i> , 2018 , 213, 11-14	3.3	8
135	Thermo-electro-rheological behaviour of vanadium electrolyte-based electrochemical graphene oxide nanofluid designed for redox flow battery. <i>Journal of Molecular Liquids</i> , 2021 , 338, 116860	6	8
134	Pressure and temperature sensitive e-skin for in situ robotic applications. <i>Materials and Design</i> , 2021 , 208, 109886	8.1	8
133	Thermoresistance of p-Type 4H β -SiC Integrated MEMS Devices for High-Temperature Sensing. <i>Advanced Engineering Materials</i> , 2019 , 21, 1801049	3.5	7
132	Development of polymer electrostatic comb-drive actuator using hot embossing and ultraprecision cutting technology. <i>Journal of Micro/Nanolithography, MEMS, and MOEMS</i> , 2009 , 8, 043065	0.7	7
131	Development of polymer MEMS process technology as an approach to a sustainable production system. <i>Advances in Natural Sciences: Nanoscience and Nanotechnology</i> , 2012 , 3, 015009	1.6	7
130	A Fully Integrated MEMS-Based Convective 3-DOF Gyroscope 2007 ,		7
129	A new structure of Tesla coupled nozzle in synthetic jet micro-pump. <i>Sensors and Actuators A: Physical</i> , 2020 , 315, 112296	3.9	7
128	A Generalized Analytical Model for Joule Heating of Segmented Wires. <i>Journal of Heat Transfer</i> , 2018 , 140,	1.8	6
127	Characterization of the piezoresistance in highly doped p-type 3C-SiC at cryogenic temperatures.. <i>RSC Advances</i> , 2018 , 8, 29976-29979	3.7	6
126	Fabrication and Characterization of 3-DOF Soft-Contact Tactile Sensor Utilizing 3-DOF Micro Force Moment Sensor. <i>IEEJ Transactions on Sensors and Micromachines</i> , 2007 , 127, 177-181	0.2	6
125	A Dual Axis Accelerometer Utilizing Low Doped Silicon Thermistor. <i>IEEJ Transactions on Sensors and Micromachines</i> , 2006 , 126, 190-194	0.2	6
124	Influence of gallium ion beam acceleration voltage on the bend angle of amorphous silicon cantilevers. <i>Japanese Journal of Applied Physics</i> , 2016 , 55, 06GL02	1.4	6
123	Demodulation Band Optimization in Envelope Analysis for Fault Diagnosis of Rolling Element Bearings Using a Real-Coded Genetic Algorithm. <i>IEEE Access</i> , 2019 , 7, 168828-168838	3.5	6
122	Environment-friendly wearable thermal flow sensors for noninvasive respiratory monitoring 2017 ,		5
121	Study on contact resistance in single-contact and multi-contact MEMS switches. <i>Microelectronic Engineering</i> , 2015 , 135, 13-16	2.5	5

120	Palladium on paper as a low-cost and flexible material for fast hydrogen sensing. <i>Journal of Materials Science: Materials in Electronics</i> , 2020 , 31, 5298-5304	2.1	5
119	Charge reduced nanoparticles by sub-kHz ac electrohydrodynamic atomization toward drug delivery applications. <i>Applied Physics Letters</i> , 2020 , 116, 023703	3.4	5
118	A rapid and cost-effective metallization technique for 3C-SiC MEMS using direct wire bonding.. <i>RSC Advances</i> , 2018 , 8, 15310-15314	3.7	5
117	Towards highly sensitive strain sensing based on nanostructured materials. <i>Advances in Natural Sciences: Nanoscience and Nanotechnology</i> , 2010 , 1, 045012	1.6	5
116	A novel micro transportation system with fast movement of a micro container based on electrostatic actuation and a ratchet mechanism. <i>Journal of Micromechanics and Microengineering</i> , 2010 , 20, 115026	2	5
115	Piezoresistive effect in silicon nanowires [A comprehensive analysis based on first-principles calculations 2009 ,		5
114	Ultra miniature novel three-axis micro accelerometer 2009 ,		5
113	Evaluation of the piezoresistive effect in single crystalline silicon nanowires 2009 ,		5
112	Convective Gas Gyroscope Based on Thermo-Resistive Effect in Si P-N Junction 2007 ,		5
111	A dual axis thermal convective silicon gyroscope		5
110	A Wearable, Bending-Insensitive Respiration Sensor Using Highly Oriented Carbon Nanotube Film. <i>IEEE Sensors Journal</i> , 2021 , 21, 7308-7315	4	5
109	Soft ionic liquid multi-point touch sensor.. <i>RSC Advances</i> , 2019 , 9, 10733-10738	3.7	4
108	Highly-doped SiC resonator with ultra-large tuning frequency range by Joule heating effect. <i>Materials and Design</i> , 2020 , 194, 108922	8.1	4
107	Lithography and Etching-Free Microfabrication of Silicon Carbide on Insulator Using Direct UV Laser Ablation . <i>Advanced Engineering Materials</i> , 2020 , 22, 1901173	3.5	4
106	Design and analysis of a z-axis tuning fork gyroscope with guided-mechanical coupling. <i>Microsystem Technologies</i> , 2014 , 20, 281-289	1.7	4
105	A micro gearing system based on a ratchet mechanism and electrostatic actuation. <i>Microsystem Technologies</i> , 2013 , 19, 261-267	1.7	4
104	Fabrication of optically smooth, through-wafer silicon molds for PDMS total internal reflection-based devices. <i>Microsystem Technologies</i> , 2009 , 15, 1845-1853	1.7	4
103	Single mask, simple structure micro rotational motor driven by electrostatic comb-drive actuators. <i>Journal of Micromechanics and Microengineering</i> , 2012 , 22, 015008	2	4

102	Optimum design considerations for a 3-DOF micro accelerometer using nanoscale piezoresistors 2008,		4
101	Development of a 3-DOF Micro Accelerometer with Wireless Readout. <i>IEEJ Transactions on Sensors and Micromachines</i> , 2008 , 128, 235-239	0.2	4
100	Design and Fabrication of Polymer Electrostatic Comb-Drive Actuators for Micro Conveyer Systems. <i>IEEJ Transactions on Sensors and Micromachines</i> , 2006 , 126, 306-311	0.2	4
99	A MEMS-based microsensor to measure all six components of force and moment on a near-wall particle in turbulent flow		4
98	Advances in Si and SiC Materials for High-Performance Supercapacitors toward Integrated Energy Storage Systems. <i>Small</i> , 2021 , 17, e2101775	11	4
97	Strain Effect in Highly-Doped n-Type 3C-SiC-on-Glass Substrate for Mechanical Sensors and Mobility Enhancement. <i>Physica Status Solidi (A) Applications and Materials Science</i> , 2018 , 215, 1800288	1.6	4
96	Biosensors and Chemical Sensors for Healthcare Monitoring: A Review. <i>IEEJ Transactions on Electrical and Electronic Engineering</i> , 2022 , 17, 626-636	1	4
95	Enhanced Electrohydrodynamics for Electrospinning a Highly Sensitive Flexible Fiber-Based Piezoelectric Sensor. <i>ACS Applied Electronic Materials</i> , 2022 , 4, 1301-1310	4	4
94	Formation of silicon carbide nanowire on insulator through direct wet oxidation. <i>Materials Letters</i> , 2017 , 196, 280-283	3.3	3
93	Piezo-Hall effect and fundamental piezo-Hall coefficients of single crystal n-type 3C-SiC(100) with low carrier concentration. <i>Applied Physics Letters</i> , 2017 , 110, 162903	3.4	3
92	Pseudo-Hall Effect in Single Crystal n-Type 3C-SiC(100) Thin Film. <i>Key Engineering Materials</i> , 2017 , 733, 3-7	0.4	3
91	Palladium microfiber network as a platform for hydrogen sensing applications. <i>Journal of Physics and Chemistry of Solids</i> , 2019 , 131, 50-54	3.9	3
90	Micro cam system driven by electrostatic comb-drive actuators based on SOI-MEMS technology. <i>Microsystem Technologies</i> , 2015 , 21, 699-706	1.7	3
89	A planar fractal micro-transformer with air core and hilbert curve. <i>Microsystem Technologies</i> , 2015 , 21, 1691-1695	1.7	3
88	Sensitivity enhancement of piezoresistive micro acceleration sensors with Nanometer Stress Concentration Regions on sensing elements 2009,		3
87	Characterization of the piezoresistive effect and temperature coefficient of resistance in single crystalline silicon nanowires 2009,		3
86	Design and Simulation of Convective Inertial Sensor 2008,		3
85	Tactile Perception using Micro Force/Moment Sensor Embedded in Soft Fingertip 2006,		3

84	Micro force-moment sensor with six-degree of freedom		3
83	Effect of Drilling Parameters on Delamination and Hole Quality in Drilling Flax Fiber Reinforced Bio-Composites. <i>Smart Innovation, Systems and Technologies</i> , 2019 , 71-81	0.5	3
82	Effects of photogenerated-hole diffusion on 3C-SiC/Si heterostructure optoelectronic position-sensitive detector. <i>Journal Physics D: Applied Physics</i> , 2021 , 54, 265101	3	3
81	Piezotronic effect in a normally off p-GaN/AlGaN/GaN HEMT toward highly sensitive pressure sensor. <i>Applied Physics Letters</i> , 2021 , 118, 242104	3-4	3
80	A single-layer micromachined tunable capacitor with an electrically floating plate. <i>Smart Materials and Structures</i> , 2016 , 25, 045014	3-4	3
79	Fundamental piezo-Hall coefficients of single crystal p-type 3C-SiC for arbitrary crystallographic orientation. <i>Applied Physics Letters</i> , 2016 , 109, 092903	3-4	3
78	Piezoresistive Effect with a Gauge Factor of 18 000 in a Semiconductor Heterojunction Modulated by Bonded Light-Emitting Diodes. <i>ACS Applied Materials & Interfaces</i> , 2021 , 13, 35046-35053	9-5	3
77	Ultra-Sensitive OPTO-Piezoresistive Sensors Utilising 3C-SiC/Si Heterostructures 2019 ,		2
76	Transparent crystalline cubic SiC-on-glass electrodes enable simultaneous electrochemistry and optical microscopy. <i>Chemical Communications</i> , 2019 , 55, 7978-7981	5.8	2
75	Apparent thermal conductivity of photoluminescent C-dot nanofluid. <i>Journal of Molecular Liquids</i> , 2019 , 286, 110948	6	2
74	Dependence of offset voltage in AlGaN/GaN van der Pauw devices under mechanical strain. <i>Materials Letters</i> , 2019 , 244, 66-69	3-3	2
73	Optoelectronic Enhancement for Piezoresistive Pressure Sensor 2020 ,		2
72	Constrained Optimum Design of 3-DOF Microaccelerometers. <i>IETE Journal of Research</i> , 2014 , 60, 309-318.	9	2
71	Highly-sensitive fluorescence detection and imaging with microfabricated total internal reflection (TIR)-based devices. <i>Journal of Micro-Nano Mechatronics</i> , 2012 , 7, 45-59		2
70	A novel electrothermally actuated RF MEMS switch for wireless applications 2013 ,		2
69	Longitudinal strain sensitive effect in a photonic crystal cavity. <i>Procedia Engineering</i> , 2011 , 25, 1357-1360		2
68	Tangential and perpendicular driving micro transmission systems based on ratchet mechanism and electrostatic actuator 2009 ,		2
67	Micro Ratcheting Transmission Systems Based on Electrostatic Actuator 2008 ,		2

66	2008,		2
65	Optimization of PZT Diaphragm Pump for the Convective Gyroscope. <i>IEEJ Transactions on Sensors and Micromachines</i> , 2007 , 127, 347-352	0.2	2
64	2006,		2
63	A silicon micromachined six-degree of freedom piezoresistive accelerometer		2
62	Six-degree of freedom micro force-moment sensor for application in geophysics		2
61	Generation of a Charge Carrier Gradient in a 3C-SiC/Si Heterojunction with Asymmetric Configuration. <i>ACS Applied Materials & Interfaces</i> , 2021 , 13, 55329-55338	9.5	2
60	Desirable Features for High-Temperature SiC Sensors. <i>SpringerBriefs in Applied Sciences and Technology</i> , 2018 , 43-53	0.4	2
59	Low-Cost Multifunctional Ionic Liquid Pressure and Temperature Sensor. <i>Smart Innovation, Systems and Technologies</i> , 2019 , 184-192	0.5	2
58	Analytical and experimental investigation of the parameters in drilling flax/poly(lactic acid) bio-composite laminates. <i>International Journal of Advanced Manufacturing Technology</i> , 2020 , 109, 503-521 ^{3,2}		2
57	AlGaN/GaN 2-D Electron Gas for Highly Sensitive and High-Temperature Current Sensing. <i>IEEE Transactions on Electron Devices</i> , 2021 , 68, 1495-1500	2.9	2
56	Experimental investigation of resonant MEMS switch with ac actuation. <i>Applied Physics Letters</i> , 2016 , 108, 253501	3.4	2
55	Real gas model for an electric swashplate refrigeration compressor. <i>International Journal of Refrigeration</i> , 2020 , 118, 210-219	3.8	1
54	Utilizing large hall offset voltage for conversion free 4H-SiC strain sensor 2018,		1
53	Design of Metal MUMPs based LLC resonant converter for on-chip power supplies 2013,		1
52	Fabrication of a sensitive pressure sensor using carbon nanotube micro-yarns 2017,		1
51	A fluid density sensor based on a resonant tube. <i>Advances in Natural Sciences: Nanoscience and Nanotechnology</i> , 2014 , 5, 035010	1.6	1
50	A Novel Bidirectional Z-Shaped Thermally Actuated RF MEMS Switch for Multiple-Beam Antenna Array. <i>Advanced Materials Research</i> , 2013 , 705, 264-269	0.5	1
49	Real-time monitoring of Ca ²⁺ concentration in pancreatic beta cells by a microfluidic device integrated with Total Internal Reflection (TIR)-based chip 2011,		1

48	Bulk PZT Thick Film Preparation on Silicon Wafer and its Application for MEMS Power Generator. <i>Materials Science Forum</i> , 2010 , 663-665, 1115-1120	0.4	1
47	Development of a miniaturized NO ₂ gas sensor based on nanoparticles WO ₃ thin film on interdigitated electrodes 2010 ,		1
46	Piezoresistive and thermoelectric effects of CNT thin film patterned by EB lithography 2009 ,		1
45	Development of a Monolithic PMMA Comb-Drive Micro Actuator Utilizing Hot Embossing and Ultra-Precision Machining 2009 ,		1
44	A Monolithic Dual-Color Total-Internal-Reflection-Based Chip for Highly Sensitive and High-Resolution Dual-Fluorescence Imaging. <i>Journal of Microelectromechanical Systems</i> , 2009 , 18, 1371-1381	2.5	1
43	Design and Simulation of Piezoresistive Micro Accelerometers for Wearable Sensing Applications 2008 ,		1
42	Developing a Wearable System with MEMS Accelerometer for Real-Time Activity Monitoring. <i>IEEJ Transactions on Sensors and Micromachines</i> , 2009 , 129, 142-147	0.2	1
41	Development of 4-DOF Soft-Contact Tactile Sensor and Application to Gripping Operation of Robotics Fingers 2006 ,		1
40	Design and Fabrication of a Convective 3-DOF Angular Rate Sensor 2007 ,		1
39	Novel micro Transportation Systems Based on Ratchet mechanism and Electrostatic Actuators 2007 ,		1
38	Noise and frequency analyses of a miniaturized 3-DOF accelerometer utilizing silicon nanowire piezoresistors		1
37	Design & Fabrication of Piezoresistive Six Degree of Freedom Accelerometer for Biomechanical Applications		1
36	Reduced graphene oxide nanofluidic electrolyte with improved electrochemical properties for vanadium flow batteries. <i>Journal of Energy Storage</i> , 2022 , 49, 104133	7.8	1
35	Evaluation and Analysis of Physical Properties of Nanomaterials for Highly Sensitive Mechanical Sensing Devices. <i>IEEJ Transactions on Sensors and Micromachines</i> , 2010 , 130, 146-151	0.2	1
34	Fundamentals of Thermoelectrical Effect in SiC. <i>SpringerBriefs in Applied Sciences and Technology</i> , 2018 , 11-41	0.4	1
33	Palladium Nanofiber Networks Hydrogen Sensor and Hydrogen-Actuated Switches. <i>Smart Innovation, Systems and Technologies</i> , 2019 , 116-125	0.5	1
32	Carbon Nanotube Four-Terminal Devices for Pressure Sensing Applications. <i>Smart Innovation, Systems and Technologies</i> , 2019 , 199-207	0.5	1
31	Ultraviolet and Visible Photodetection Using 3C-SiC/Si Hetero-Epitaxial Junction. <i>Smart Innovation, Systems and Technologies</i> , 2019 , 208-216	0.5	1

30	Silicon Micro-/Nanomachining and Applications 2018 , 225-261		1
29	Electrospray propelled by ionic wind in a bipolar system for direct delivery of charge reduced nanoparticles. <i>Applied Physics Express</i> , 2021 , 14, 055001	2.4	1
28	Wet oxidation of 3C-SiC on Si for MEMS processing and use in harsh environments: Effects of the film thicknesses, crystalline orientations, and growth temperatures. <i>Sensors and Actuators A: Physical</i> , 2021 , 317, 112474	3.9	1
27	In-air particle generation by on-chip electrohydrodynamics. <i>Lab on A Chip</i> , 2021 , 21, 1779-1787	7.2	1
26	Thermoelectrical Effect in SiC for High-Temperature MEMS Sensors. <i>SpringerBriefs in Applied Sciences and Technology</i> , 2018 ,	0.4	1
25	Measurement of mechanical and thermal properties of co-sputtered WSi thin film for MEMS applications. <i>Microsystem Technologies</i> , 2010 , 16, 1881-1886	1.7	0
24	Development of a Micro-Force/Moment Sensor Embedded Soft Fingertip and Its Experimental Verification by Compression Test. <i>Nippon Kikai Gakkai Ronbunshu, C Hen/Transactions of the Japan Society of Mechanical Engineers, Part C</i> , 2007 , 73, 3228-3233		0
23	Noninvasive refilling of liquid marbles with water for microfluidic applications. <i>Applied Physics Letters</i> , 2022 , 120, 064102	3.4	0
22	The concept of light-harvesting, self-powered mechanical sensors using a monolithic structure. <i>Nano Energy</i> , 2022 , 107030	17.1	0
21	Design and Fabrication of a Miniaturized Three-Degree-of-Freedom Piezoresistive Acceleration Sensor Based on MEMS Technology Using Deep Reactive Ion Etching. <i>Springer Proceedings in Physics</i> , 2009 , 377-383	0.2	0
20	Introduction to SiC and Thermoelectrical Properties. <i>SpringerBriefs in Applied Sciences and Technology</i> , 2018 , 1-9	0.4	0
19	Combination Effect of Waviness and Vacancy Defects on the Natural Frequency of Single Walled Carbon Nanotubes. <i>Journal of Computational and Theoretical Nanoscience</i> , 2016 , 13, 5031-5036	0.3	0
18	Pseudo-Hall Effect in Graphite on Paper Based Four Terminal Devices for Stress Sensing Applications. <i>Journal of Physics: Conference Series</i> , 2017 , 829, 012004	0.3	0
17	Novel Three-Axis Solid-state Micro Accelerometer with Surrounding Beam Structure. <i>IEEJ Transactions on Sensors and Micromachines</i> , 2010 , 130, 242-246	0.2	0
16	Physical Sensors: Thermal Sensors 2021 ,		0
15	Transient start-up of an electric swashplate refrigeration compressor. <i>Applied Thermal Engineering</i> , 2021 , 196, 117351	5.8	0
14	Design Optimization of MEMS Based LLC Tunable Resonant Converter for Power Supplies on Chip. <i>Advanced Materials Research</i> , 2013 , 705, 258-263	0.5	
13	Design and fabrication process of a micropump using bulk Pb(Zr,Ti)O ₃ for microfluidic devices 2007 , 6800, 439		

12	Design and Fabrication of Six-Degree of Freedom Piezoresistive Turbulent Water Flow Sensor. <i>Journal of Sensor Science and Technology</i> , 2002 , 11, 191-199	0.3
11	Development of a Flexible Thermopile Power Generator Utilizing BiTe-Cu Thin Films. <i>IEEJ Transactions on Sensors and Micromachines</i> , 2008 , 128, 352-357	0.2
10	Impact of Design and Process on Performance of SiC Thermal Devices. <i>SpringerBriefs in Applied Sciences and Technology</i> , 2018 , 75-83	0.4
9	Fabrication of SiC MEMS Sensors. <i>SpringerBriefs in Applied Sciences and Technology</i> , 2018 , 55-74	0.4
8	Applications of Thermoelectrical Effect in SiC. <i>SpringerBriefs in Applied Sciences and Technology</i> , 2018 , 85-106	0.4
7	Future Prospects of SiC Thermoelectrical Sensing Devices. <i>SpringerBriefs in Applied Sciences and Technology</i> , 2018 , 107-115	0.4
6	Development of Fabrication Process for Large-Displacement Polymer MEMS with Stacked Movable Structures Based on Hot Embossing and Polishing. <i>Journal of Japan Institute of Electronics Packaging</i> , 2011 , 14, 507-512	0.1
5	Nanostrain Sensing Based on Piezo-Optic Property of a Photonic Crystal Cavity. <i>IEEJ Transactions on Sensors and Micromachines</i> , 2011 , 131, 258-263	0.2
4	J2240105 Development of MEMS Device for Tensile Testing of Nanowire-Shaped Specimens. <i>The Proceedings of Mechanical Engineering Congress Japan</i> , 2014 , 2014, _J2240105--_J2240105-	0
3	Optical and Electrical Characterizations of Nanoscale Robust 3C-SiC Membrane for UV Sensing Applications. <i>Key Engineering Materials</i> , 2018 , 775, 278-282	0.4
2	Underground LoRa Sensor Node for Bushfire Monitoring. <i>Fire Technology</i> , 1	3
1	Low-Dimensional Palladium on Graphite-on-Paper Substrate for Hydrogen Sensing. <i>Sensors</i> , 2022 , 22, 3926	3.8