

Vincent Ch Lee

List of Publications by Year in descending order

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617
papers

25,411
citations

4955

84
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14197

128
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619
all docs

619
docs citations

619
times ranked

13726
citing authors

#	ARTICLE	IF	CITATIONS
1	A comprehensive review on piezoelectric energy harvesting technology: Materials, mechanisms, and applications. <i>Applied Physics Reviews</i> , 2018, 5, .	5.5	565
2	Haptic-feedback smart glove as a creative human-machine interface (HMI) for virtual/augmented reality applications. <i>Science Advances</i> , 2020, 6, eaaz8693.	4.7	419
3	Triboelectric nanogenerator sensors for soft robotics aiming at digital twin applications. <i>Nature Communications</i> , 2020, 11, 5381.	5.8	363
4	Progress in wearable electronics/photronicsâ€”Moving toward the era of artificial intelligence and internet of things. <i>InformaÃnÃ-MateriÃly</i> , 2020, 2, 1131-1162.	8.5	343
5	Piezoelectric MEMS Energy Harvester for Low-Frequency Vibrations With Wideband Operation Range and Steadily Increased Output Power. <i>Journal of Microelectromechanical Systems</i> , 2011, 20, 1131-1142.	1.7	327
6	Electromagnetic energy harvesting from vibrations of multiple frequencies. <i>Journal of Micromechanics and Microengineering</i> , 2009, 19, 035001.	1.5	294
7	Machine Learning Glove Using Self-Powered Conductive Superhydrophobic Triboelectric Textile for Gesture Recognition in VR/AR Applications. <i>Advanced Science</i> , 2020, 7, 2000261.	5.6	290
8	More than energy harvesting â€” Combining triboelectric nanogenerator and flexible electronics technology for enabling novel micro-/nano-systems. <i>Nano Energy</i> , 2019, 57, 851-871.	8.2	255
9	Silicon photonic platforms for mid-infrared applications [Invited]. <i>Photonics Research</i> , 2017, 5, 417.	3.4	229
10	High-Performance, Room Temperature, Ultra-Broadband Photodetectors Based on Air-Stable PdSe ₂ . <i>Advanced Materials</i> , 2019, 31, e1807609.	11.1	223
11	Self-Powered and Self-Functional Cotton Sock Using Piezoelectric and Triboelectric Hybrid Mechanism for Healthcare and Sports Monitoring. <i>ACS Nano</i> , 2019, 13, 1940-1952.	7.3	221
12	Development Trends and Perspectives of Future Sensors and MEMS/NEMS. <i>Micromachines</i> , 2020, 11, 7.	1.4	216
13	Deep learning-enabled triboelectric smart socks for IoT-based gait analysis and VR applications. <i>Npj Flexible Electronics</i> , 2020, 4, .	5.1	213
14	AI enabled sign language recognition and VR space bidirectional communication using triboelectric smart glove. <i>Nature Communications</i> , 2021, 12, 5378.	5.8	208
15	Investigation of a MEMS piezoelectric energy harvester system with a frequency-widened-bandwidth mechanism introduced by mechanical stoppers. <i>Smart Materials and Structures</i> , 2012, 21, 035005.	1.8	202
16	Reconfigurable MEMS Fano metasurfaces with multiple-inputâ€”output states for logic operations at terahertz frequencies. <i>Nature Communications</i> , 2018, 9, 4056.	5.8	200
17	Active Control of Electromagnetically Induced Transparency Analog in Terahertz MEMS Metamaterial. <i>Advanced Optical Materials</i> , 2016, 4, 541-547.	3.6	198
18	Design, Fabrication, and Characterization of CMOS MEMS-Based Thermoelectric Power Generators. <i>Journal of Microelectromechanical Systems</i> , 2010, 19, 317-324.	1.7	195

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19	Deep learning enabled smart mats as a scalable floor monitoring system. Nature Communications, 2020, 11, 4609.	5.8	195
20	Progress in TENG technology – A journey from energy harvesting to nanoenergy and nanosystem. EcoMat, 2020, 2, e12058.	6.8	194
21	Technologies toward next generation human machine interfaces: From machine learning enhanced tactile sensing to neuromorphic sensory systems. Applied Physics Reviews, 2020, 7, .	5.5	194
22	Piezoelectric MEMS-based wideband energy harvesting systems using a frequency-up-conversion cantilever stopper. Sensors and Actuators A: Physical, 2012, 186, 242-248.	2.0	191
23	Hybrid energy harvesting technology: From materials, structural design, system integration to applications. Renewable and Sustainable Energy Reviews, 2021, 137, 110473.	8.2	185
24	Promoting smart cities into the 5G era with multi-field Internet of Things (IoT) applications powered with advanced mechanical energy harvesters. Nano Energy, 2021, 88, 106304.	8.2	185
25	Making use of nanoenergy from human – Nanogenerator and self-powered sensor enabled sustainable wireless IoT sensory systems. Nano Today, 2021, 36, 101016.	6.2	180
26	Triboelectric Self-Powered Wearable Flexible Patch as 3D Motion Control Interface for Robotic Manipulator. ACS Nano, 2018, 12, 11561-11571.	7.3	179
27	Self-Sustainable Wearable Textile Nano-Energy Nano-System (NENS) for Next-Generation Healthcare Applications. Advanced Science, 2019, 6, 1901437.	5.6	179
28	An intelligent skin based self-powered finger motion sensor integrated with triboelectric nanogenerator. Nano Energy, 2016, 19, 532-540.	8.2	178
29	Technology evolution from self-powered sensors to AIoT enabled smart homes. Nano Energy, 2021, 79, 105414.	8.2	177
30	Beyond energy harvesting - multi-functional triboelectric nanosensors on a textile. Nano Energy, 2019, 57, 338-352.	8.2	173
31	Minimalist and multi-functional human machine interface (HMI) using a flexible wearable triboelectric patch. Nano Energy, 2019, 62, 355-366.	8.2	164
32	Waveguide-Integrated Black Phosphorus Photodetector for Mid-Infrared Applications. ACS Nano, 2019, 13, 913-921.	7.3	164
33	Self-powered liquid triboelectric microfluidic sensor for pressure sensing and finger motion monitoring applications. Nano Energy, 2016, 30, 450-459.	8.2	157
34	Self-powered triboelectric nanogenerator buoy ball for applications ranging from environment monitoring to water wave energy farm. Nano Energy, 2017, 40, 203-213.	8.2	153
35	Artificial Intelligence-Enabled Sensing Technologies in the 5G/Internet of Things Era: From Virtual Reality/Augmented Reality to the Digital Twin. Advanced Intelligent Systems, 2022, 4, .	3.3	146
36	MEMS Based Broadband Piezoelectric Ultrasonic Energy Harvester (PUEH) for Enabling Self-Powered Implantable Biomedical Devices. Scientific Reports, 2016, 6, 24946.	1.6	145

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37	Leveraging of MEMS Technologies for Optical Metamaterials Applications. <i>Advanced Optical Materials</i> , 2020, 8, 1900653.	3.6	144
38	Tunable multiband terahertz metamaterials using a reconfigurable electric split-ring resonator array. <i>Light: Science and Applications</i> , 2014, 3, e171-e171.	7.7	143
39	Wearable Triboelectric Sensors Enabled Gait Analysis and Waist Motion Capture for IoT-Based Smart Healthcare Applications. <i>Advanced Science</i> , 2022, 9, e2103694.	5.6	143
40	A rotational pendulum based electromagnetic/triboelectric hybrid-generator for ultra-low-frequency vibrations aiming at human motion and blue energy applications. <i>Nano Energy</i> , 2019, 63, 103871.	8.2	142
41	Self-powered glove-based intuitive interface for diversified control applications in real/cyber space. <i>Nano Energy</i> , 2019, 58, 641-651.	8.2	140
42	Artificial Intelligence of Things (AIoT) Enabled Virtual Shop Applications Using Self-Powered Sensor Enhanced Soft Robotic Manipulator. <i>Advanced Science</i> , 2021, 8, e2100230.	5.6	138
43	A non-resonant rotational electromagnetic energy harvester for low-frequency and irregular human motion. <i>Applied Physics Letters</i> , 2018, 113, .	1.5	137
44	A new energy harvester design for high power output at low frequencies. <i>Sensors and Actuators A: Physical</i> , 2013, 199, 344-352.	2.0	135
45	Self-Powered Bio-Inspired Spider-Net Coding Interface Using Single-Electrode Triboelectric Nanogenerator. <i>Advanced Science</i> , 2019, 6, 1900617.	5.6	134
46	Hybrid Metamaterial Absorber Platform for Sensing of CO ₂ Gas at Mid-IR. <i>Advanced Science</i> , 2018, 5, 1700581.	5.6	132
47	A new S-shaped MEMS PZT cantilever for energy harvesting from low frequency vibrations below 30ÅHz. <i>Microsystem Technologies</i> , 2012, 18, 497-506.	1.2	130
48	Self-Powered Direct Muscle Stimulation Using a Triboelectric Nanogenerator (TENG) Integrated with a Flexible Multiple-Channel Intramuscular Electrode. <i>ACS Nano</i> , 2019, 13, 3589-3599.	7.3	130
49	Ultra-thin flexible polyimide neural probe embedded in a dissolvable maltose-coated microneedle. <i>Journal of Micromechanics and Microengineering</i> , 2014, 24, 065015.	1.5	129
50	Active Phase Transition via Loss Engineering in a Terahertz MEMS Metamaterial. <i>Advanced Materials</i> , 2017, 29, 1700733.	11.1	125
51	Development of battery-free neural interface and modulated control of tibialis anterior muscle via common peroneal nerve based on triboelectric nanogenerators (TENGs). <i>Nano Energy</i> , 2017, 33, 1-11.	8.2	124
52	Self-excited piezoelectric PZT microcantilevers for dynamic SFM with inherent sensing and actuating capabilities. <i>Sensors and Actuators A: Physical</i> , 1999, 72, 179-188.	2.0	122
53	Wearable Triboelectric Human-Machine Interface (THMI) Using Robust Nanophotonic Readout. <i>ACS Nano</i> , 2020, 14, 8915-8930.	7.3	121
54	Controlling Surface Charge Generated by Contact Electrification: Strategies and Applications. <i>Advanced Materials</i> , 2018, 30, e1802405.	11.1	117

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55	Study of thin film blue energy harvester based on triboelectric nanogenerator and seashore IoT applications. <i>Nano Energy</i> , 2019, 66, 104167.	8.2	117
56	Development of piezoelectric microcantilever flow sensor with wind-driven energy harvesting capability. <i>Applied Physics Letters</i> , 2012, 100, .	1.5	116
57	Active Multifunctional Microelectromechanical System Metadevices: Applications in Polarization Control, Wavefront Deflection, and Holograms. <i>Advanced Optical Materials</i> , 2017, 5, 1600716.	3.6	116
58	From flexible electronics technology in the era of IoT and artificial intelligence toward future implanted body sensor networks. <i>APL Materials</i> , 2019, 7, .	2.2	116
59	Large Scale Triboelectric Nanogenerator and Self-Powered Pressure Sensor Array Using Low Cost Roll-to-Roll UV Embossing. <i>Scientific Reports</i> , 2016, 6, 22253.	1.6	111
60	Zero-bias mid-infrared graphene photodetectors with bulk photoresponse and calibration-free polarization detection. <i>Nature Communications</i> , 2020, 11, 6404.	5.8	111
61	Self-powered control interface based on Gray code with hybrid triboelectric and photovoltaics energy harvesting for IoT smart home and access control applications. <i>Nano Energy</i> , 2020, 70, 104456.	8.2	110
62	Self-Powered Dual-Mode Amenity Sensor Based on the Water-Driven Air Triboelectric Nanogenerator. <i>ACS Nano</i> , 2017, 11, 10337-10346.	7.3	108
63	Computational Study of Photonic Crystals Nano-Ring Resonator for Biochemical Sensing. <i>IEEE Sensors Journal</i> , 2010, 10, 1185-1191.	2.4	107
64	Hybrid energy harvester based on piezoelectric and electromagnetic mechanisms. <i>Journal of Micro/Nanolithography, MEMS, and MOEMS</i> , 2010, 9, 023002.	1.0	107
65	Low cost exoskeleton manipulator using bidirectional triboelectric sensors enhanced multiple degree of freedom sensory system. <i>Nature Communications</i> , 2021, 12, 2692.	5.8	107
66	Toward Self-Powered Wearable Adhesive Skin Patch with Bendable Microneedle Array for Transdermal Drug Delivery. <i>Advanced Science</i> , 2016, 3, 1500441.	5.6	105
67	Advances in chemical sensing technology for enabling the next-generation self-sustainable integrated wearable system in the IoT era. <i>Nano Energy</i> , 2020, 78, 105155.	8.2	105
68	A comprehensive study of non-linear air damping and "pull-in" effects on the electrostatic energy harvesters. <i>Energy Conversion and Management</i> , 2020, 203, 112264.	4.4	102
69	Triboelectric liquid volume sensor for self-powered lab-on-chip applications. <i>Nano Energy</i> , 2016, 23, 80-88.	8.2	101
70	Development of neural interfaces and energy harvesters towards self-powered implantable systems for healthcare monitoring and rehabilitation purposes. <i>Nano Energy</i> , 2019, 65, 104039.	8.2	101
71	Battery-free short-range self-powered wireless sensor network (SS-WSN) using TENG based direct sensory transmission (TDST) mechanism. <i>Nano Energy</i> , 2020, 67, 104266.	8.2	101
72	Study of electrothermal V-beam actuators and latched mechanism for optical switch. <i>Journal of Micromechanics and Microengineering</i> , 2005, 15, 11-19.	1.5	99

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73	Artificial Intelligence-Enabled Caregiving Walking Stick Powered by Ultra-Low-Frequency Human Motion. ACS Nano, 2021, 15, 19054-19069.	7.3	98
74	Nanofluidic terahertz metasensor for sensing in aqueous environment. Applied Physics Letters, 2018, 113, .	1.5	97
75	Investigation of Low-Current Direct Stimulation for Rehabilitation Treatment Related to Muscle Function Loss Using Self-Powered TENG System. Advanced Science, 2019, 6, 1900149.	5.6	97
76	Mid-infrared semimetal polarization detectors with configurable polarity transition. Nature Photonics, 2021, 15, 614-621.	15.6	97
77	Progress of Flexible Electronics in Neural Interfacing – A Self-Adaptive Non-Invasive Neural Ribbon Electrode for Small Nerves Recording. Advanced Materials, 2016, 28, 4472-4479.	11.1	96
78	Toward Self-Control Systems for Neurogenic Underactive Bladder: A Triboelectric Nanogenerator Sensor Integrated with a Bistable Micro-Actuator. ACS Nano, 2018, 12, 3487-3501.	7.3	96
79	Broadband Energy Harvester Using Non-linear Polymer Spring and Electromagnetic/Triboelectric Hybrid Mechanism. Scientific Reports, 2017, 7, 41396.	1.6	95
80	Self-Powered Gyroscope Ball Using a Triboelectric Mechanism. Advanced Energy Materials, 2017, 7, 1701300.	10.2	95
81	A Black Phosphorus Carbide Infrared Phototransistor. Advanced Materials, 2018, 30, 1705039.	11.1	95
82	Application of sol-gel deposited thin PZT film for actuation of 1D and 2D scanners. Sensors and Actuators A: Physical, 1999, 73, 144-152.	2.0	94
83	A multi-frequency vibration-based MEMS electromagnetic energy harvesting device. Sensors and Actuators A: Physical, 2013, 204, 37-43.	2.0	93
84	Development of stress-induced curved actuators for a tunable THz filter based on double split-ring resonators. Applied Physics Letters, 2013, 102, .	1.5	89
85	All-Dielectric Surface-Enhanced Infrared Absorption-Based Gas Sensor Using Guided Resonance. ACS Applied Materials & Interfaces, 2018, 10, 38272-38279.	4.0	89
86	Battery-free neuromodulator for peripheral nerve direct stimulation. Nano Energy, 2018, 50, 148-158.	8.2	88
87	Self-powered eye motion sensor based on triboelectric interaction and near-field electrostatic induction for wearable assistive technologies. Nano Energy, 2020, 72, 104675.	8.2	87
88	A novel hybridized blue energy harvester aiming at all-weather IoT applications. Nano Energy, 2020, 76, 105052.	8.2	86
89	Smart materials for smart healthcare – moving from sensors and actuators to self-sustained nanoenergy nanosystems. Smart Materials in Medicine, 2020, 1, 92-124.	3.7	85
90	Direct muscle stimulation using diode-amplified triboelectric nanogenerators (TENGs). Nano Energy, 2019, 63, 103844.	8.2	84

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91	An epidermal sEMG tattoo-like patch as a new human-machine interface for patients with loss of voice. <i>Microsystems and Nanoengineering</i> , 2020, 6, 16.	3.4	84
92	Characterization of heavily doped polysilicon films for CMOS-MEMS thermoelectric power generators. <i>Journal of Micromechanics and Microengineering</i> , 2009, 19, 125029.	1.5	83
93	Optimization and comparison of photonic crystal resonators for silicon microcantilever sensors. <i>Sensors and Actuators A: Physical</i> , 2011, 165, 16-25.	2.0	83
94	Self-powered multifunctional monitoring system using hybrid integrated triboelectric nanogenerators and piezoelectric microsensors. <i>Nano Energy</i> , 2019, 58, 612-623.	8.2	83
95	Mechano-neuromodulation of autonomic pelvic nerve for underactive bladder: A triboelectric neurostimulator integrated with flexible neural clip interface. <i>Nano Energy</i> , 2019, 60, 449-456.	8.2	81
96	Toward Healthcare Diagnoses by Machine-Learning-Enabled Volatile Organic Compound Identification. <i>ACS Nano</i> , 2021, 15, 894-903.	7.3	81
97	Microfluidic metamaterial sensor: Selective trapping and remote sensing of microparticles. <i>Journal of Applied Physics</i> , 2017, 121, .	1.1	80
98	Self-sustained autonomous wireless sensing based on a hybridized TENG and PEG vibration mechanism. <i>Nano Energy</i> , 2021, 80, 105555.	8.2	80
99	Artificial Intelligence of Things (AIoT) Enabled Floor Monitoring System for Smart Home Applications. <i>ACS Nano</i> , 2021, 15, 18312-18326.	7.3	80
100	Progress of infrared guided-wave nanophotonic sensors and devices. <i>Nano Convergence</i> , 2020, 7, 12.	6.3	79
101	Micromachined piezoelectric force sensors based on PZT thin films. <i>IEEE Transactions on Ultrasonics, Ferroelectrics, and Frequency Control</i> , 1996, 43, 553-559.	1.7	77
102	Development of a Broadband Triboelectric Energy Harvester With SU-8 Micropillars. <i>Journal of Microelectromechanical Systems</i> , 2015, 24, 91-99.	1.7	77
103	A MEMS rotary comb mechanism for harvesting the kinetic energy of planar vibrations. <i>Journal of Micromechanics and Microengineering</i> , 2010, 20, 065017.	1.5	76
104	Electrothermally actuated microelectromechanical systems based omega-ring terahertz metamaterial with polarization dependent characteristics. <i>Applied Physics Letters</i> , 2014, 104, .	1.5	76
105	Micro-electro-mechanically switchable near infrared complementary metamaterial absorber. <i>Applied Physics Letters</i> , 2014, 104, .	1.5	76
106	Toward Bioelectronic Medicine-Neuromodulation of Small Peripheral Nerves Using Flexible Neural Clip. <i>Advanced Science</i> , 2017, 4, 1700149.	5.6	76
107	High-Responsivity Mid-Infrared Black Phosphorus Slow Light Waveguide Photodetector. <i>Advanced Optical Materials</i> , 2020, 8, 2000337.	3.6	75
108	Triboelectric Nanogenerators and Hybridized Systems for Enabling Next-Generation IoT Applications. <i>Research</i> , 2021, 2021, 6849171.	2.8	75

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109	Novel augmented reality interface using a self-powered triboelectric based virtual reality 3D-control sensor. <i>Nano Energy</i> , 2018, 51, 162-172.	8.2	74
110	Artificial intelligence of toilet (AI-Toilet) for an integrated health monitoring system (IHMS) using smart triboelectric pressure sensors and image sensor. <i>Nano Energy</i> , 2021, 90, 106517.	8.2	74
111	Characterization of micromachined piezoelectric PZT force sensors for dynamic scanning force microscopy. <i>Review of Scientific Instruments</i> , 1997, 68, 2091-2100.	0.6	73
112	Zero-Bending Piezoelectric Micromachined Ultrasonic Transducer (pMUT) With Enhanced Transmitting Performance. <i>Journal of Microelectromechanical Systems</i> , 2015, 24, 2083-2091.	1.7	73
113	Infrared Black Phosphorus Phototransistor with Tunable Responsivity and Low Noise Equivalent Power. <i>ACS Applied Materials & Interfaces</i> , 2017, 9, 36130-36136.	4.0	73
114	Flourishing energy harvesters for future body sensor network: from single to multiple energy sources. <i>IScience</i> , 2021, 24, 101934.	1.9	73
115	A Motion Capturing and Energy Harvesting Hybridized Lower Limb System for Rehabilitation and Sports Applications. <i>Advanced Science</i> , 2021, 8, e2101834.	5.6	72
116	An underwater flag-like triboelectric nanogenerator for harvesting ocean current energy under extremely low velocity condition. <i>Nano Energy</i> , 2021, 90, 106503.	8.2	72
117	Triboelectric single-electrode-output control interface using patterned grid electrode. <i>Nano Energy</i> , 2019, 60, 545-556.	8.2	71
118	Metal-Organic Framework Surface-Enhanced Infrared Absorption Platform Enables Simultaneous On-Chip Sensing of Greenhouse Gases. <i>Advanced Science</i> , 2020, 7, 2001173.	5.6	71
119	Feasibility study of a 3D vibration-driven electromagnetic MEMS energy harvester with multiple vibration modes. <i>Journal of Micromechanics and Microengineering</i> , 2012, 22, 125020.	1.5	70
120	Machine learning-enabled textile-based graphene gas sensing with energy harvesting-assisted IoT application. <i>Nano Energy</i> , 2021, 86, 106035.	8.2	70
121	Non-resonant electromagnetic wideband energy harvesting mechanism for low frequency vibrations. <i>Microsystem Technologies</i> , 2010, 16, 961-966.	1.2	69
122	Electret-material enhanced triboelectric energy harvesting from air flow for self-powered wireless temperature sensor network. <i>Sensors and Actuators A: Physical</i> , 2018, 271, 364-372.	2.0	69
123	Shadow enhanced self-charging power system for wave and solar energy harvesting from the ocean. <i>Nature Communications</i> , 2021, 12, 616.	5.8	69
124	A flexible three-dimensional electrode mesh: An enabling technology for wireless brain-computer interface prostheses. <i>Microsystems and Nanoengineering</i> , 2016, 2, 16012.	3.4	68
125	Active control of near-field coupling in conductively coupled microelectromechanical system metamaterial devices. <i>Applied Physics Letters</i> , 2016, 108, .	1.5	67
126	Active Control of Resonant Cloaking in a Terahertz MEMS Metamaterial. <i>Advanced Optical Materials</i> , 2018, 6, 1800141.	3.6	67

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127	Design and Modeling of a Nanomechanical Sensor Using Silicon Photonic Crystals. Journal of Lightwave Technology, 2008, 26, 839-846.	2.7	66
128	Wearable Triboelectric/Aluminum Nitride Nano-Energy-Nano-System with Self-Sustainable Photonic Modulation and Continuous Force Sensing. Advanced Science, 2020, 7, 1903636.	5.6	66
129	Hybridized wearable patch as a multi-parameter and multi-functional human-machine interface. Nano Energy, 2021, 81, 105582.	8.2	66
130	Dual band complementary metamaterial absorber in near infrared region. Journal of Applied Physics, 2014, 115, .	1.1	65
131	Optical nanomechanical sensor using a silicon photonic crystal cantilever embedded with a nanocavity resonator. Applied Optics, 2009, 48, 1797.	2.1	64
132	A Junctionless Gate-All-Around Silicon Nanowire FET of High Linearity and Its Potential Applications. IEEE Electron Device Letters, 2013, 34, 478-480.	2.2	64
133	Selective stimulation and neural recording on peripheral nerves using flexible split ring electrodes. Sensors and Actuators B: Chemical, 2017, 242, 1165-1170.	4.0	62
134	Continuous direct current by charge transportation for next-generation IoT and real-time virtual reality applications. Nano Energy, 2020, 73, 104760.	8.2	61
135	Characterization of piezoelectric PZT beam actuators for driving 2D scanning micromirrors. Sensors and Actuators A: Physical, 2010, 162, 336-347.	2.0	60
136	Micromachined piezoelectric ultrasonic transducer with ultra-wide frequency bandwidth. Applied Physics Letters, 2015, 106, .	1.5	60
137	Reconfigurable Digital Metamaterial for Dynamic Switching of Terahertz Anisotropy. Advanced Optical Materials, 2016, 4, 391-398.	3.6	60
138	Recent Progress in the Energy Harvesting Technology-From Self-Powered Sensors to Self-Sustained IoT, and New Applications. Nanomaterials, 2021, 11, 2975.	1.9	60
139	Investigation of the Nonlinear Electromagnetic Energy Harvesters From Hand Shaking. IEEE Sensors Journal, 2015, 15, 2356-2364.	2.4	59
140	Autonomously Adhesive, Stretchable, and Transparent Solid-State Polyionic Triboelectric Patch for Wearable Power Source and Tactile Sensor. Advanced Functional Materials, 2021, 31, 2104365.	7.8	59
141	Progress in the Triboelectric Human-Machine Interfaces (HMIs)-Moving from Smart Gloves to AI/Haptic Enabled HMI in the 5G/IoT Era. Nanoenergy Advances, 2021, 1, 81-121.	3.6	59
142	Optimization of NEMS pressure sensors with a multilayered diaphragm using silicon nanowires as piezoresistive sensing elements. Journal of Micromechanics and Microengineering, 2012, 22, 055012.	1.5	58
143	Ultra-wide frequency broadening mechanism for micro-scale electromagnetic energy harvester. Applied Physics Letters, 2014, 104, .	1.5	58
144	Black Phosphorus Carbide as a Tunable Anisotropic Plasmonic Metasurface. ACS Photonics, 2018, 5, 3116-3123.	3.2	58

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145	Progress of optomechanical micro/nano sensors: a review. <i>International Journal of Optomechatronics</i> , 2021, 15, 120-159.	3.3	58
146	A MEMS-based piezoelectric cantilever patterned with PZT thin film array for harvesting energy from low frequency vibrations. <i>Physics Procedia</i> , 2011, 19, 129-133.	1.2	57
147	A scrape-through piezoelectric MEMS energy harvester with frequency broadband and up-conversion behaviors. <i>Microsystem Technologies</i> , 2011, 17, 1747-1754.	1.2	57
148	Dynamics of Wicking in Silicon Nanopillars Fabricated with Interference Lithography and Metal-Assisted Chemical Etching. <i>Langmuir</i> , 2012, 28, 11465-11471.	1.6	56
149	Theoretical comparison of the energy harvesting capability among various electrostatic mechanisms from structure aspect. <i>Sensors and Actuators A: Physical</i> , 2009, 156, 208-216.	2.0	55
150	Optical Nanofilters Based on Meta-Atom Side-Coupled Plasmonics Metal- Insulator-Metal Waveguides. <i>Journal of Lightwave Technology</i> , 2013, 31, 2876-2880.	2.7	55
151	Investigation of contact electrification based broadband energy harvesting mechanism using elastic PDMS microstructures. <i>Journal of Micromechanics and Microengineering</i> , 2014, 24, 104002.	1.5	55
152	Bilayer graphene nanoribbon nanoelectromechanical system device: A computational study. <i>Applied Physics Letters</i> , 2009, 95, .	1.5	54
153	Resonance enhancement of terahertz metamaterials by liquid crystals/indium tin oxide interfaces. <i>Optics Express</i> , 2013, 21, 6519.	1.7	54
154	Active control of electromagnetically induced transparency with dual dark mode excitation pathways using MEMS based tri-atomic metamolecules. <i>Applied Physics Letters</i> , 2016, 109, .	1.5	54
155	Applications of Photonic Crystal Nanobeam Cavities for Sensing. <i>Micromachines</i> , 2018, 9, 541.	1.4	54
156	Sensors and Control Interface Methods Based on Triboelectric Nanogenerator in IoT Applications. <i>IEEE Access</i> , 2019, 7, 92745-92757.	2.6	54
157	Nanometer-Scale Heterogeneous Interfacial Sapphire Wafer Bonding for Enabling Plasmonic-Enhanced Nanofluidic Mid-Infrared Spectroscopy. <i>ACS Nano</i> , 2020, 14, 12159-12172.	7.3	54
158	Triboelectric nanogenerator as next-generation self-powered sensor for cooperative vehicle-infrastructure system. <i>Nano Energy</i> , 2022, 97, 107219.	8.2	54
159	Development of a piezoelectric self-excitation and self-detection mechanism in PZT microcantilevers for dynamic scanning force microscopy in liquid. <i>Journal of Vacuum Science & Technology an Official Journal of the American Vacuum Society B, Microelectronics Processing and Phenomena</i> , 1997, 15, 1559.	1.6	53
160	Polarization-sensitive microelectromechanical systems based tunable terahertz metamaterials using three dimensional electric split-ring resonator arrays. <i>Applied Physics Letters</i> , 2013, 102, .	1.5	53
161	A high-performance triboelectric-electromagnetic hybrid wind energy harvester based on rotational tapered rollers aiming at outdoor IoT applications. <i>IScience</i> , 2021, 24, 102300.	1.9	53
162	Technology evolution from micro-scale energy harvesters to nanogenerators. <i>Journal of Micromechanics and Microengineering</i> , 2021, 31, 093002.	1.5	53

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