

Jae Yeong Park

List of Publications by Year in descending order

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202
papers

7,348
citations

38720

50
h-index

64755

79
g-index

204
all docs

204
docs citations

204
times ranked

5891
citing authors

#	ARTICLE	IF	CITATIONS
1	Phase-Rich Laser-Induced Hierarchically Interactive MXene Reinforced Carbon Nanofibers for Multifunctional Breathable Bioelectronics. <i>Advanced Functional Materials</i> , 2022, 32, 2107969.	7.8	16
2	Fabric-Assisted MXene/Silicone Nanocomposite-Based Triboelectric Nanogenerators for Self-Powered Sensors and Wearable Electronics. <i>Advanced Functional Materials</i> , 2022, 32, 2107143.	7.8	81
3	Multifunctional hybrid skin patch for wearable smart healthcare applications. <i>Biosensors and Bioelectronics</i> , 2022, 196, 113685.	5.3	36
4	Metal-organic framework-derived nanoporous carbon incorporated nanofibers for high-performance triboelectric nanogenerators and self-powered sensors. <i>Nano Energy</i> , 2022, 94, 106921.	8.2	79
5	Phase-Rich Laser-Induced Hierarchically Interactive MXene Reinforced Carbon Nanofibers for Multifunctional Breathable Bioelectronics (<i>Adv. Funct. Mater.</i> 5/2022). <i>Advanced Functional Materials</i> , 2022, 32, .	7.8	0
6	Polyaniline-nanospines engineered nanofibrous membrane based piezoresistive sensor for high-performance electronic skins. <i>Nano Energy</i> , 2022, 95, 106970.	8.2	37
7	Siloxene-Polymer Composite Nanofiber Towards High-Performance Triboelectric Harvesters and Self-Powered Sensors. , 2022, , .		1
8	Polyaniline-Nanospikes Modified Hybrid Nanofibrous Membrane Based Flexible Piezoresistive Sensor For Physiological Signal Monitoring. , 2022, , .		1
9	On-skin ultrathin and stretchable multifunctional sensor for smart healthcare wearables. <i>Npj Flexible Electronics</i> , 2022, 6, .	5.1	68
10	A Hybrid Self-Powered Arbitrary Wave Motion Sensing System for Real-Time Wireless Marine Environment Monitoring Application (<i>Adv. Energy Mater.</i> 7/2022). <i>Advanced Energy Materials</i> , 2022, 12, .	10.2	0
11	Siloxene/PVDF Composite Nanofibrous Membrane for High-Performance Triboelectric Nanogenerator and Self-Powered Static and Dynamic Pressure Sensing Applications. <i>Advanced Functional Materials</i> , 2022, 32, .	7.8	64
12	A Siloxene/Ecoflex Nanocomposite-Based Triboelectric Nanogenerator with Enhanced Charge Retention by MoS ₂ /LIG for Self-Powered Touchless Sensor Applications. <i>Advanced Functional Materials</i> , 2022, 32, .	7.8	36
13	A High-Performance Rotational Energy Harvester Integrated with Artificial Intelligence-Powered Triboelectric Sensors for Wireless Environmental Monitoring System. <i>Advanced Engineering Materials</i> , 2022, 24, .	1.6	5
14	A Hybrid Self-Powered Arbitrary Wave Motion Sensing System for Real-Time Wireless Marine Environment Monitoring Application. <i>Advanced Energy Materials</i> , 2022, 12, .	10.2	18
15	A nanocomposite-decorated laser-induced graphene-based multi-functional hybrid sensor for simultaneous detection of water contaminants. <i>Analytica Chimica Acta</i> , 2022, 1209, 339872.	2.6	9
16	Siloxene-Functionalized Laser-Induced Graphene via C _{1s} /O _{1s} /Si Bonding for High-Performance Heavy Metal Sensing Patch Applications. <i>Small</i> , 2022, 18, .	5.2	9
17	Silicone-incorporated nanoporous cobalt oxide and MXene nanocomposite-coated stretchable fabric for wearable triboelectric nanogenerator and self-powered sensing applications. <i>Nano Energy</i> , 2022, 100, 107454.	8.2	29
18	Laser-carbonized MXene/ZIF-67 nanocomposite as an intermediate layer for boosting the output performance of fabric-based triboelectric nanogenerator. <i>Nano Energy</i> , 2022, 100, 107462.	8.2	22

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19	Hysteresis-Free Double-Network Hydrogel-Based Strain Sensor for Wearable Smart Bioelectronics. ACS Applied Materials & Interfaces, 2022, 14, 31363-31372.	4.0	29
20	Black Phosphorus@Laser-Engraved Graphene Heterostructure-Based Temperature-Strain Hybridized Sensor for Electronic Skin Applications. Advanced Functional Materials, 2021, 31, 2007661.	7.8	107
21	A wearable microfluidics-integrated impedimetric immunosensor based on Ti ₃ C ₂ T MXene incorporated laser-burned graphene for noninvasive sweat cortisol detection. Sensors and Actuators B: Chemical, 2021, 329, 129206.	4.0	86
22	A Novel MXene/Ecoflex Nanocomposite-Coated Fabric as a Highly Negative and Stable Friction Layer for High-Output Triboelectric Nanogenerators. Advanced Energy Materials, 2021, 11, .	10.2	133
23	A wearable battery-free wireless and skin-interfaced microfluidics integrated electrochemical sensing patch for on-site biomarkers monitoring in human perspiration. Biosensors and Bioelectronics, 2021, 175, 112844.	5.3	66
24	High-performance triboelectric nanogenerator based on MXene functionalized polyvinylidene fluoride composite nanofibers. Nano Energy, 2021, 81, 105670.	8.2	211
25	One-Chip Integration of RF MEMS Switched Capacitor and Power Amplifier Using CMOS-Compatible Post Fabrication Process. Journal of Electrical Engineering and Technology, 2021, 16, 491-498.	1.2	1
26	An Electrospun PVDF-TRFE/Mxene Nanofibrous Mat-Based Self-Powered Motion Sensor. , 2021, , .		5
27	A rime ice-inspired bismuth-based flexible sensor for zinc ion detection in human perspiration. Mikrochimica Acta, 2021, 188, 97.	2.5	10
28	Electronic Skin: Black Phosphorus@Laser-Engraved Graphene Heterostructure-Based Temperature-Strain Hybridized Sensor for Electronic Skin Applications (Adv. Funct. Mater. 10/2021). Advanced Functional Materials, 2021, 31, 2170068.	7.8	1
29	Photothermal sterilization cellulose patch with hollow gold nanoparticles. Journal of Industrial and Engineering Chemistry, 2021, 95, 120-125.	2.9	16
30	Polyaziridine-Encapsulated Phosphorene-Incorporated Flexible 3D Porous Graphene for Multimodal Sensing and Energy Storage Applications. Advanced Functional Materials, 2021, 31, 2009018.	7.8	25
31	A Poly-DADMAC Functionalized Nanofibrous Mat-Based Self-Powered Human Motion Sensor for IoT Applications. , 2021, , .		0
32	Keystroke Dynamics based Hybrid Nanogenerators for Biometric Authentication and Identification using Artificial Intelligence. Advanced Science, 2021, 8, e2100711.	5.6	35
33	Ultra-robust and broadband rotary hybridized nanogenerator for self-sustained smart-farming applications. Nano Energy, 2021, 85, 105974.	8.2	33
34	Cobalt-Nanoporous Carbon Functionalized Nanocomposite-Based Triboelectric Nanogenerator for Contactless and Sustainable Self-Powered Sensor Systems. Advanced Functional Materials, 2021, 31, 2105110.	7.8	47
35	A highly selective and stable cationic polyelectrolyte encapsulated black phosphorene based impedimetric immunosensor for Interleukin-6 biomarker detection. Biosensors and Bioelectronics, 2021, 186, 113287.	5.3	29
36	High-performance keyboard typing motion driven hybrid nanogenerator. Nano Energy, 2021, 88, 106232.	8.2	14

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37	Cation functionalized nylon composite nanofibrous mat as a highly positive friction layer for robust, high output triboelectric nanogenerators and self-powered sensors. Nano Energy, 2021, 88, 106300.	8.2	47
38	Hydrogen-Bond-Triggered Hybrid Nanofibrous Membrane-Based Wearable Pressure Sensor with Ultrahigh Sensitivity over a Broad Pressure Range. ACS Nano, 2021, 15, 4380-4393.	7.3	155
39	Electrospun PVDF-TrFE/MXene Nanofiber Mat-Based Triboelectric Nanogenerator for Smart Home Appliances. ACS Applied Materials & Interfaces, 2021, 13, 4955-4967.	4.0	211
40	A Hybrid Ionic Nanofibrous Membrane Based Pressure Sensor With Ultra-High Sensitivity Over Broad Pressure Range for Wearable Healthcare Applications. , 2021, , .		2
41	Thermally reduced graphene oxide-nylon membrane based epidermal sensor using vacuum filtration for wearable electrophysiological signals and human motion monitoring. Carbon, 2020, 158, 386-393.	5.4	34
42	Carbon-Free Nanocoral-Structured Platinum Electrocatalyst for Enhanced Methanol Oxidation Reaction Activity with Superior Poison Tolerance. ChemElectroChem, 2020, 7, 452-459.	1.7	3
43	High-Performance Flexible Electrochemical Heavy Metal Sensor Based on Layer-by-Layer Assembly of Ti_3C_2Tx /MWNTs Nanocomposites for Noninvasive Detection of Copper and Zinc Ions in Human Biofluids. ACS Applied Materials & Interfaces, 2020, 12, 48928-48937.	4.0	70
44	An Electrodeposited MXene- Ti_3C_2Tx Nanosheets Functionalized by Task-Specific Ionic Liquid for Simultaneous and Multiplexed Detection of Bladder Cancer Biomarkers. Small, 2020, 16, e2002517.	5.2	31
45	A highly miniaturized freestanding kinetic-impact-based non-resonant hybridized electromagnetic-triboelectric nanogenerator for human induced vibrations harvesting. Applied Energy, 2020, 279, 115799.	5.1	55
46	A Battery-Less Arbitrary Motion Sensing System Using Magnetic Repulsion-Based Self-Powered Motion Sensors and Hybrid Nanogenerator. Advanced Functional Materials, 2020, 30, 2003276.	7.8	33
47	Multiplexed Immunosensors: An Electrodeposited MXene- Ti_3C_2Tx Nanosheets Functionalized by Task-Specific Ionic Liquid for Simultaneous and Multiplexed Detection of Bladder Cancer Biomarkers (Small) Tj ETQq1 1 0.7843147gBT /Overlock 10	5.2	1
48	A Fully Functional Universal Self-Chargeable Power Module for Portable/Wearable Electronics and Self-Powered IoT Applications. Advanced Energy Materials, 2020, 10, 2002782.	10.2	53
49	Battery-Less Motion Sensing: A Battery-Less Arbitrary Motion Sensing System Using Magnetic Repulsion-Based Self-Powered Motion Sensors and Hybrid Nanogenerator (Adv. Funct. Mater. 36/2020). Advanced Functional Materials, 2020, 30, 2070245.	7.8	0
50	A human-machine interactive hybridized biomechanical nanogenerator as a self-sustainable power source for multifunctional smart electronics applications. Nano Energy, 2020, 76, 105025.	8.2	40
51	Enhanced Sensitivity of Capacitive Pressure and Strain Sensor Based on $CaCu_3Ti_4O_{12}$ Wrapped Hybrid Sponge for Wearable Applications. Advanced Functional Materials, 2020, 30, 1910020.	7.8	146
52	Biomechanical Energy: Biomechanical Energy-Driven Hybridized Generator as a Universal Portable Power Source for Smart/Wearable Electronics (Adv. Energy Mater. 12/2020). Advanced Energy Materials, 2020, 10, 2070056.	10.2	0
53	Immunosensing Platforms: A Polyallylamine Anchored Amine-Rich Laser-Ablated Graphene Platform for Facile and Highly Selective Electrochemical IgG Biomarker Detection (Adv. Funct. Mater. 14/2020). Advanced Functional Materials, 2020, 30, 2070093.	7.8	1
54	A human skin-inspired self-powered flex sensor with thermally embossed microstructured triboelectric layers for sign language interpretation. Nano Energy, 2020, 76, 105071.	8.2	74

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55	A chemically modified laser-induced porous graphene based flexible and ultrasensitive electrochemical biosensor for sweat glucose detection. <i>Sensors and Actuators B: Chemical</i> , 2020, 311, 127866.	4.0	178
56	A Polyallylamine Anchored Amine-Rich Laser-Ablated Graphene Platform for Facile and Highly Selective Electrochemical IgG Biomarker Detection. <i>Advanced Functional Materials</i> , 2020, 30, 1907297.	7.8	25
57	Biomechanical Energy-Driven Hybridized Generator as a Universal Portable Power Source for Smart/Wearable Electronics. <i>Advanced Energy Materials</i> , 2020, 10, 1903663.	10.2	63
58	Highly flexible and conductive poly (3, 4-ethylene dioxythiophene)-poly (styrene sulfonate) anchored 3-dimensional porous graphene network-based electrochemical biosensor for glucose and pH detection in human perspiration. <i>Biosensors and Bioelectronics</i> , 2020, 160, 112220.	5.3	93
59	Flexible and robust dry electrodes based on electroconductive polymer spray-coated 3D porous graphene for long-term electrocardiogram signal monitoring system. <i>Carbon</i> , 2020, 165, 26-36.	5.4	52
60	Wearable Capacitive Pressure Sensor Based on MXene Composite Nanofibrous Scaffolds for Reliable Human Physiological Signal Acquisition. <i>ACS Applied Materials & Interfaces</i> , 2020, 12, 22212-22224.	4.0	264
61	Smart bandage with integrated multifunctional sensors based on MXene-functionalized porous graphene scaffold for chronic wound care management. <i>Biosensors and Bioelectronics</i> , 2020, 169, 112637.	5.3	85
62	Hybrid Energy Harvesters: A Fully Functional Universal Self-Chargeable Power Module for Portable/Wearable Electronics and Self-Powered IoT Applications (<i>Adv. Energy Mater.</i> 48/2020). <i>Advanced Energy Materials</i> , 2020, 10, 2070199.	10.2	1
63	Step-controllable RF MEMS tunable capacitor with ultra-wide tuning range using netted metal membrane. <i>Electronics Letters</i> , 2020, 56, 1245-1247.	0.5	0
64	Fashionable wrist band using highly conductive fabric for electrocardiogram signal monitoring. <i>Journal of Industrial Textiles</i> , 2019, 49, 243-261.	1.1	25
65	Green Synthesis and Layer-by-Layer Assembly of Amino-Functionalized Graphene Oxide/Carboxylic Surface Modified Trimetallic Nanoparticles Nanocomposite for Label-Free Electrochemical Biosensing. <i>Journal of the Electrochemical Society</i> , 2019, 166, B983-B993.	1.3	26
66	A Prostate Cancer Detection Immunosensor Based on Nafion/Reduced Graphene Oxide/Aldehyde Functionalized Methyl Pyridine Composite Electrode. <i>Journal of the Electrochemical Society</i> , 2019, 166, B920-B926.	1.3	16
67	High-performance cycloid inspired wearable electromagnetic energy harvester for scavenging human motion energy. <i>Applied Energy</i> , 2019, 256, 113987.	5.1	102
68	A highly flexible and selective dopamine sensor based on Pt-Au nanoparticle-modified laser-induced graphene. <i>Electrochimica Acta</i> , 2019, 328, 135066.	2.6	79
69	A Frequency Up-Converted Hybrid Energy Harvester Using Transverse Impact-Driven Piezoelectric Bimorph for Human-Limb Motion. <i>Micromachines</i> , 2019, 10, 701.	1.4	32
70	Highly Sensitive and Reliable Strain Sensor Based on MoS ₂ -Decorated Laser-Scribed Graphene for Wearable Electronics. , 2019, , .		2
71	A Natural Wind-Driven 3D-Printed Miniaturized and Fully Enclosed Hybrid Nanogenerator Using Flexible Blade Structure for Subway Tunnel Applications. , 2019, , .		0
72	Design and experimental analysis of a low-frequency resonant hybridized nanogenerator with a wide bandwidth and high output power density. <i>Nano Energy</i> , 2019, 66, 104122.	8.2	21

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73	A laser ablated graphene-based flexible self-powered pressure sensor for human gestures and finger pulse monitoring. <i>Nano Research</i> , 2019, 12, 1789-1795.	5.8	75
74	MoS ₂ -Decorated Laser-Induced Graphene for a Highly Sensitive, Hysteresis-free, and Reliable Piezoresistive Strain Sensor. <i>ACS Applied Materials & Interfaces</i> , 2019, 11, 22531-22542.	4.0	120
75	Hand clapping inspired integrated multilayer hybrid nanogenerator as a wearable and universal power source for portable electronics. <i>Nano Energy</i> , 2019, 63, 103816.	8.2	33
76	A flexible cable-shaped supercapacitor based on carbon fibers coated with graphene flakes for wearable electronic applications. <i>Micro and Nano Systems Letters</i> , 2019, 7, .	1.7	9
77	Easy and Direct Sensing of Toxic Cadmium Using In Situ Bismuth Plating Free Method and Environmentally Friendly Synthesized Graphene Composite. <i>Journal of the Electrochemical Society</i> , 2019, 166, B637-B643.	1.3	4
78	Electromagnetic energy harvester based on a finger trigger rotational gear module and an array of disc Halbach magnets. <i>Applied Energy</i> , 2019, 250, 776-785.	5.1	41
79	Green Synthesis of Reduced Graphene Oxide Decorated with Few-Layered MoS ₂ -Nanoroses and Au/Pd/Ag Trimetallic Nanoparticles for Ultrasensitive Label-Free Immunosensing Platforms. <i>Journal of the Electrochemical Society</i> , 2019, 166, B249-B257.	1.3	28
80	Ex Situ Hybridized Hexagonal Cobalt Oxide Nanosheets and RGO@MWCNT Based Nanocomposite for Ultra-Selective Electrochemical Detection of Ascorbic Acid, Dopamine, and Uric Acid. <i>Journal of the Electrochemical Society</i> , 2019, 166, B304-B311.	1.3	31
81	Nanogenerator for scavenging low frequency vibrations. <i>Journal of Micromechanics and Microengineering</i> , 2019, 29, 053001.	1.5	34
82	A Fully Integrated Switched Capacitor using Low Temperature and Wet Release Process for Reconfigurable CMOS Triple-band Power Amplifier. , 2019, , .		3
83	Ultrasensitive Interfacial Capacitive Pressure Sensor Based on a Randomly Distributed Microstructured Iontronic Film for Wearable Applications. <i>ACS Applied Materials & Interfaces</i> , 2019, 11, 3438-3449.	4.0	159
84	Natural wind-driven ultra-compact and highly efficient hybridized nanogenerator for self-sustained wireless environmental monitoring system. <i>Nano Energy</i> , 2019, 57, 256-268.	8.2	98
85	Seed-mediated growth of platinum nanoparticles anchored on chemically modified graphene and cationic polyelectrolyte composites for electrochemical multi-sensing applications. <i>Sensors and Actuators B: Chemical</i> , 2019, 282, 780-789.	4.0	15
86	A wearable electrochemical glucose sensor based on simple and low-cost fabrication supported micro-patterned reduced graphene oxide nanocomposite electrode on flexible substrate. <i>Biosensors and Bioelectronics</i> , 2018, 109, 75-82.	5.3	310
87	A human locomotion inspired hybrid nanogenerator for wrist-wearable electronic device and sensor applications. <i>Nano Energy</i> , 2018, 46, 383-395.	8.2	125
88	A Hybrid Electromagneticâ€“Triboelectric Energy Harvester Using a Dual Halbach Magnet Array Powered by Humanâ€“Bodyâ€“Induced Motion. <i>Advanced Materials Technologies</i> , 2018, 3, 1700240.	3.0	24
89	High performance human-induced vibration driven hybrid energy harvester for powering portable electronics. <i>Nano Energy</i> , 2018, 45, 236-246.	8.2	71
90	An impedance tunable and highly efficient triboelectric nanogenerator for large-scale, ultra-sensitive pressure sensing applications. <i>Nano Energy</i> , 2018, 49, 603-613.	8.2	124

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91	Piezoelectric energy harvester using impact-driven flexible side-walls for human-limb motion. <i>Microsystem Technologies</i> , 2018, 24, 2099-2107.	1.2	30
92	Trimetallic Pd@Au@Pt nanocomposites platform on -COOH terminated reduced graphene oxide for highly sensitive CEA and PSA biomarkers detection. <i>Biosensors and Bioelectronics</i> , 2018, 100, 16-22.	5.3	119
93	A miniaturized and flexible cadmium and lead ion detection sensor based on micro-patterned reduced graphene oxide/carbon nanotube/bismuth composite electrodes. <i>Sensors and Actuators B: Chemical</i> , 2018, 255, 1220-1227.	4.0	110
94	Development of wearable and flexible insole type capacitive pressure sensor for continuous gait signal analysis. <i>Organic Electronics</i> , 2018, 53, 213-220.	1.4	54
95	Ex Situ Synthesis of Hexagonal NiO Nanosheets and Carboxyl-Terminated Reduced Graphene Oxide Nanocomposite for Non-Enzymatic Electrochemical Detection of H_2O_2 and Ascorbic Acid. <i>Journal of the Electrochemical Society</i> , 2018, 165, B840-B847.	1.3	37
96	An indoor power line based magnetic field energy harvester for self-powered wireless sensors in smart home applications. <i>Applied Energy</i> , 2018, 232, 398-408.	5.1	46
97	Carboxyl Terminated Reduced Graphene Oxide (Crbl-RGO) and Pt Nanoparticles Based Ultra-Sensitive and Selective Electrochemical Biosensor for Glutamate Detection. <i>Journal of the Electrochemical Society</i> , 2018, 165, B296-B301.	1.3	31
98	Highly conductive and flexible thin film electrodes based on silver nanowires wrapped carbon fiber networks for supercapacitor applications. <i>Thin Solid Films</i> , 2018, 660, 564-571.	0.8	10
99	A sandpaper-inspired flexible and stretchable resistive sensor for pressure and strain measurement. <i>Organic Electronics</i> , 2018, 62, 581-590.	1.4	24
100	A highly stretchable and conductive 3D porous graphene metal nanocomposite based electrochemical-physiological hybrid biosensor. <i>Biosensors and Bioelectronics</i> , 2018, 120, 160-167.	5.3	108
101	Soft surfactant-assisted uniformly dispersed platinum nanoparticles for high performance electrochemical non-enzymatic glucose sensing platform. <i>Journal of Electroanalytical Chemistry</i> , 2018, 824, 121-127.	1.9	16
102	A multimodal hybrid energy harvester based on piezoelectric-electromagnetic mechanisms for low-frequency ambient vibrations. <i>Energy Conversion and Management</i> , 2018, 168, 454-466.	4.4	168
103	A fully enclosed, 3D printed, hybridized nanogenerator with flexible flux concentrator for harvesting diverse human biomechanical energy. <i>Nano Energy</i> , 2018, 53, 213-224.	8.2	46
104	Wearable, robust, non-enzymatic continuous glucose monitoring system and its in vivo investigation. <i>Biosensors and Bioelectronics</i> , 2018, 117, 267-275.	5.3	64
105	Simple fabrication method of an ultrasensitive gold micro-structured dry skin sensor for biopotential recording. <i>Microelectronic Engineering</i> , 2018, 197, 96-103.	1.1	11
106	Miniaturized springless hybrid nanogenerator for powering portable and wearable electronic devices from human-body-induced vibration. <i>Nano Energy</i> , 2018, 51, 61-72.	8.2	60
107	Design and experiment of human hand motion driven electromagnetic energy harvester using dual Halbach magnet array. <i>Smart Materials and Structures</i> , 2017, 26, 035011.	1.8	55
108	Miniaturized flexible sensor with reduced graphene oxide/carbon nano tube modified bismuth working electrode for heavy metal detection. , 2017, , .		6

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109	Gold Nanoparticles Assembled Chemically Functionalized Reduced Graphene Oxide Supported Electrochemical Immunosensor for Ultra-Sensitive Prostate Cancer Detection. <i>Journal of the Electrochemical Society</i> , 2017, 164, B234-B239.	1.3	25
110	Micro-fabricated flexible PZT cantilever using d33 mode for energy harvesting. <i>Micro and Nano Systems Letters</i> , 2017, 5, .	1.7	13
111	Design and experiment of piezoelectric multimodal energy harvester for low frequency vibration. <i>Ceramics International</i> , 2017, 43, S675-S681.	2.3	75
112	Design and experiment of hybridized electromagnetic-triboelectric energy harvester using Halbach magnet array from handshaking vibration. <i>Energy Conversion and Management</i> , 2017, 153, 1-11.	4.4	61
113	A flexible and highly sensitive capacitive pressure sensor based on conductive fibers with a microporous dielectric for wearable electronics. <i>Journal of Materials Chemistry C</i> , 2017, 5, 10068-10076.	2.7	123
114	A low frequency vibration driven, miniaturized and hybridized electromagnetic and triboelectric energy harvester using dual Halbach array. , 2017, , .		2
115	Chemically reduced graphene oxide-based dry electrodes as touch sensor for electrocardiograph measurement. <i>Microelectronic Engineering</i> , 2017, 180, 45-51.	1.1	39
116	Vacuum filtered conductive nylon membrane-based flexible TENG for wearable electronics. <i>Micro and Nano Letters</i> , 2017, 12, 697-700.	0.6	9
117	Fabrication of sensitive enzymatic biosensor based on multi-layered reduced graphene oxide added PtAu nanoparticles-modified hybrid electrode. <i>PLoS ONE</i> , 2017, 12, e0173553.	1.1	39
118	Radio Frequency Micro-Electro-Mechanical System Capacitive Shunt Switch Using Actively Formed Wrinkled Hinge Structures. <i>Journal of Nanoscience and Nanotechnology</i> , 2016, 16, 11425-11428.	0.9	1
119	Solvothermal-Assisted, Reduced-Graphene-Oxide-Modified Bismuth Electrode for an Electrochemical Heavy-Metal-Ion Sensor. <i>Journal of Nanoscience and Nanotechnology</i> , 2016, 16, 11421-11424.	0.9	8
120	Plain to point network reduced graphene oxide - activated carbon composites decorated with platinum nanoparticles for urine glucose detection. <i>Scientific Reports</i> , 2016, 6, 21009.	1.6	47
121	Semi-Implantable and Flexible Enzyme-Free Electrochemical Biosensor for Detection of Free Cholesterol. <i>Journal of Nanoscience and Nanotechnology</i> , 2016, 16, 11417-11420.	0.9	1
122	Semi-implantable glucose sensor based on dual-stacked polymeric film for wireless continuous monitoring. , 2016, , .		0
123	An electrodeposited graphite oxide/cobalt hydroxide/chitosan ternary composite on nickel foam as a cathode material for hybrid supercapacitors. <i>RSC Advances</i> , 2016, 6, 34801-34808.	1.7	16
124	A miniaturized electromagnetic vibration energy harvester using flux-guided magnet stacks for human-body-induced motion. <i>Sensors and Actuators A: Physical</i> , 2016, 249, 23-31.	2.0	82
125	A Fully Integrated and Miniaturized Heavy-metal-detection Sensor Based on Micro-patterned Reduced Graphene Oxide. <i>Scientific Reports</i> , 2016, 6, 33125.	1.6	83
126	Highly conductive and flexible chitosan based multi-wall carbon nanotube/polyurethane composite fibers. <i>RSC Advances</i> , 2016, 6, 2149-2154.	1.7	10

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127	Electrochemical sensor applications of Pt supported porous gold electrode prepared using cellulose-filter. Korean Journal of Chemical Engineering, 2016, 33, 344-349.	1.2	7
128	Low Frequency Vibration Energy Harvester Using Stopper-Engaged Dynamic Magnifier for Increased Power and Wide Bandwidth. Journal of Electrical Engineering and Technology, 2016, 11, 707-714.	1.2	35
129	Compact frequency-divided micro-electromechanical systems tunable filter using inductively coupled structure. Micro and Nano Letters, 2015, 10, 233-235.	0.6	1
130	Modeling and experiment of a handy motion driven, frequency up-converting electromagnetic energy harvester using transverse impact by spherical ball. Sensors and Actuators A: Physical, 2015, 229, 50-58.	2.0	52
131	A PDMS based triboelectric energy harvester as self-powered, active tactile sensor system for human skin. , 2015, , .		7
132	A handy motion driven, frequency up-converting piezoelectric energy harvester using flexible base for wearable sensors applications. , 2015, , .		8
133	An Enzymatic Hybrid Electrode Platform Based on Chemically Modified Reduced Graphene Oxide Decorated with Palladium and Platinum Alloy Nanoparticles for Biosensing Applications. Journal of the Electrochemical Society, 2015, 162, B185-B192.	1.3	19
134	Piezoceramic based wideband energy harvester using impact-enhanced dynamic magnifier for low frequency vibration. Ceramics International, 2015, 41, S702-S707.	2.3	49
135	Electrodeposited Nanolaminated CoNiFe Cores for Ultracompact DC-DC Power Conversion. IEEE Transactions on Power Electronics, 2015, 30, 5078-5087.	5.4	8
136	Actively formed gold dual anchor structures-based RF MEMS tunable capacitor. Microwave and Optical Technology Letters, 2015, 57, 1451-1454.	0.9	4
137	Design and experiment of a human-limb driven, frequency up-converted electromagnetic energy harvester. Energy Conversion and Management, 2015, 106, 393-404.	4.4	178
138	A highly performed enzymatic biosensor using distributed electrodes decorated with hydrothermally treated reduced graphene oxide and platinum nanoparticles. , 2015, , .		0
139	A non-enzymatic micro-needle patch sensor for freecholesterol continuous monitoring. , 2014, , .		4
140	Amperometric Glucose Biosensor Based on Pt-Pd Nanoparticles Supported by Reduced Graphene Oxide and Integrated with Glucose Oxidase. Electroanalysis, 2014, 26, 940-951.	1.5	52
141	Theoretical modeling and analysis of mechanical impact driven and frequency up-converted piezoelectric energy harvester for low-frequency and wide-bandwidth operation. Sensors and Actuators A: Physical, 2014, 208, 56-65.	2.0	118
142	Palladium nanoparticles on electrochemically reduced chemically modified graphene oxide for non-enzymatic bimolecular sensing. RSC Advances, 2013, 3, 16109.	1.7	14
143	Micro-fabricated silicon spiral spring based electromagnetic energy harvester. Journal of the Korean Physical Society, 2013, 62, 1720-1725.	0.3	7
144	Nanolaminated Permalloy Core for High-Flux, High-Frequency Ultracompact Power Conversion. IEEE Transactions on Power Electronics, 2013, 28, 4376-4383.	5.4	26

#	ARTICLE	IF	CITATIONS
145	Micro-fabricated multi-resonant capacitive switch for UWB applications. , 2013, , .		0
146	Impact based frequency increased piezoelectric vibration energy harvester for human motion related environments. , 2013, , .		6
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