

# 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	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
2	Wearable Capacitive Pressure Sensor Based on MXene Composite Nanofibrous Scaffolds for Reliable Human Physiological Signal Acquisition. <i>ACS Applied Materials &amp; Interfaces</i> , 2020, 12, 22212-22224.	4.0	264
3	High-performance triboelectric nanogenerator based on MXene functionalized polyvinylidene fluoride composite nanofibers. <i>Nano Energy</i> , 2021, 81, 105670.	8.2	211
4	Electrospun PVDF-TrFE/MXene Nanofiber Mat-Based Triboelectric Nanogenerator for Smart Home Appliances. <i>ACS Applied Materials &amp; Interfaces</i> , 2021, 13, 4955-4967.	4.0	211
5	Design and experiment of a human-limb driven, frequency up-converted electromagnetic energy harvester. <i>Energy Conversion and Management</i> , 2015, 106, 393-404.	4.4	178
6	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
7	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
8	Ultrasensitive Interfacial Capacitive Pressure Sensor Based on a Randomly Distributed Microstructured Iontronic Film for Wearable Applications. <i>ACS Applied Materials &amp; Interfaces</i> , 2019, 11, 3438-3449.	4.0	159
9	Modeling and Characterization of Piezoelectric $d_{33}$ -Mode MEMS Energy Harvester. <i>Journal of Microelectromechanical Systems</i> , 2010, 19, 1215-1222.	1.7	156
10	Hydrogen-Bond-Triggered Hybrid Nanofibrous Membrane-Based Wearable Pressure Sensor with Ultrahigh Sensitivity over a Broad Pressure Range. <i>ACS Nano</i> , 2021, 15, 4380-4393.	7.3	155
11	Enhanced Sensitivity of Capacitive Pressure and Strain Sensor Based on $\text{CaCu}_3\text{Ti}_4\text{O}_{12}$ Wrapped Hybrid Sponge for Wearable Applications. <i>Advanced Functional Materials</i> , 2020, 30, 1910020.	7.8	146
12	A Novel MXene/Ecoflex Nanocomposite-Coated Fabric as a Highly Negative and Stable Friction Layer for High-Output Triboelectric Nanogenerators. <i>Advanced Energy Materials</i> , 2021, 11, .	10.2	133
13	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
14	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
15	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
16	$\text{MoS}_2$ -Decorated Laser-Induced Graphene for a Highly Sensitive, Hysteresis-free, and Reliable Piezoresistive Strain Sensor. <i>ACS Applied Materials &amp; Interfaces</i> , 2019, 11, 22531-22542.	4.0	120
17	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
18	Theoretical modeling and analysis of mechanical impact driven and frequency up-converted piezoelectric energy harvester for low-frequency and wide-bandwidth operation. <i>Sensors and Actuators A: Physical</i> , 2014, 208, 56-65.	2.0	118

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19	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
20	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
21	Black Phosphorus@Laser-Engraved Graphene Heterostructure-Based Temperature-Strain Hybridized Sensor for Electronic Skin Applications. <i>Advanced Functional Materials</i> , 2021, 31, 2007661.	7.8	107
22	High-performance cycloid inspired wearable electromagnetic energy harvester for scavenging human motion energy. <i>Applied Energy</i> , 2019, 256, 113987.	5.1	102
23	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
24	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
25	A wearable microfluidics-integrated impedimetric immunosensor based on Ti <sub>3</sub> C <sub>2</sub> T MXene incorporated laser-burned graphene for noninvasive sweat cortisol detection. <i>Sensors and Actuators B: Chemical</i> , 2021, 329, 129206.	4.0	86
26	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
27	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
28	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
29	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
30	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
31	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
32	Design and experiment of piezoelectric multimodal energy harvester for low frequency vibration. <i>Ceramics International</i> , 2017, 43, S675-S681.	2.3	75
33	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
34	A human skin-inspired self-powered flex sensor with thermally embossed microstructured triboelectric layers for sign language interpretation. <i>Nano Energy</i> , 2020, 76, 105071.	8.2	74
35	High performance human-induced vibration driven hybrid energy harvester for powering portable electronics. <i>Nano Energy</i> , 2018, 45, 236-246.	8.2	71
36	High-Performance Flexible Electrochemical Heavy Metal Sensor Based on Layer-by-Layer Assembly of Ti <sub>3</sub> C <sub>2</sub> T <sub>x</sub> /MWNTs Nanocomposites for Noninvasive Detection of Copper and Zinc Ions in Human Biofluids. <i>ACS Applied Materials &amp; Interfaces</i> , 2020, 12, 48928-48937.	4.0	70

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37	On-skin ultrathin and stretchable multifunctional sensor for smart healthcare wearables. <i>Npj Flexible Electronics</i> , 2022, 6, .	5.1	68
38	A wearable battery-free wireless and skin-interfaced microfluidics integrated electrochemical sensing patch for on-site biomarkers monitoring in human perspiration. <i>Biosensors and Bioelectronics</i> , 2021, 175, 112844.	5.3	66
39	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
40	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
41	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
42	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
43	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
44	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
45	A highly miniaturized freestanding kinetic-impact-based non-resonant hybridized electromagnetic-triboelectric nanogenerator for human induced vibrations harvesting. <i>Applied Energy</i> , 2020, 279, 115799.	5.1	55
46	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
47	A Fully Functional Universal Self-Chargeable Power Module for Portable/Wearable Electronics and Self-Powered IoT Applications. <i>Advanced Energy Materials</i> , 2020, 10, 2002782.	10.2	53
48	Amperometric Glucose Biosensor Based on Pt-Pd Nanoparticles Supported by Reduced Graphene Oxide and Integrated with Glucose Oxidase. <i>Electroanalysis</i> , 2014, 26, 940-951.	1.5	52
49	Modeling and experiment of a handy motion driven, frequency up-converting electromagnetic energy harvester using transverse impact by spherical ball. <i>Sensors and Actuators A: Physical</i> , 2015, 229, 50-58.	2.0	52
50	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
51	Piezoceramic based wideband energy harvester using impact-enhanced dynamic magnifier for low frequency vibration. <i>Ceramics International</i> , 2015, 41, S702-S707.	2.3	49
52	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
53	Cobalt-Nanoporous Carbon Functionalized Nanocomposite-Based Triboelectric Nanogenerator for Contactless and Sustainable Self-Powered Sensor Systems. <i>Advanced Functional Materials</i> , 2021, 31, 2105110.	7.8	47
54	Cation functionalized nylon composite nanofibrous mat as a highly positive friction layer for robust, high output triboelectric nanogenerators and self-powered sensors. <i>Nano Energy</i> , 2021, 88, 106300.	8.2	47

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55	Fabrication and Optimization of a Nanoporous Platinum Electrode and a Non-enzymatic Glucose Micro-sensor on Silicon. <i>Sensors</i> , 2008, 8, 6154-6164.	2.1	46
56	Micro-Fabricated Electromagnetic Power Generator to Scavenge Low Ambient Vibration. <i>IEEE Transactions on Magnetics</i> , 2010, 46, 1937-1942.	1.2	46
57	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
58	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
59	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
60	A human-machine interactive hybridized biomechanical nanogenerator as a self-sustainable power source for multifunctional smart electronics applications. <i>Nano Energy</i> , 2020, 76, 105025.	8.2	40
61	Chemically reduced graphene oxide-based dry electrodes as touch sensor for electrocardiograph measurement. <i>Microelectronic Engineering</i> , 2017, 180, 45-51.	1.1	39
62	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
63	Ex Situ Synthesis of Hexagonal NiO Nanosheets and Carboxyl-Terminated Reduced Graphene Oxide Nanocomposite for Non-Enzymatic Electrochemical Detection of H <sub>2</sub> O <sub>2</sub> and Ascorbic Acid. <i>Journal of the Electrochemical Society</i> , 2018, 165, B840-B847.	1.3	37
64	Polyaniline-nanospines engineered nanofibrous membrane based piezoresistive sensor for high-performance electronic skins. <i>Nano Energy</i> , 2022, 95, 106970.	8.2	37
65	Multifunctional hybrid skin patch for wearable smart healthcare applications. <i>Biosensors and Bioelectronics</i> , 2022, 196, 113685.	5.3	36
66	A Siloxene/Ecoflex Nanocomposite-Based Triboelectric Nanogenerator with Enhanced Charge Retention by MoS <sub>2</sub> /LIG for Self-Powered Touchless Sensor Applications. <i>Advanced Functional Materials</i> , 2022, 32, .	7.8	36
67	Keystroke Dynamics based Hybrid Nanogenerators for Biometric Authentication and Identification using Artificial Intelligence. <i>Advanced Science</i> , 2021, 8, e2100711.	5.6	35
68	Low Frequency Vibration Energy Harvester Using Stopper-Engaged Dynamic Magnifier for Increased Power and Wide Bandwidth. <i>Journal of Electrical Engineering and Technology</i> , 2016, 11, 707-714.	1.2	35
69	Fully Packaged Nonenzymatic Glucose Microsensors With Nanoporous Platinum Electrodes for Anti-Fouling. <i>IEEE Sensors Journal</i> , 2008, 8, 1922-1927.	2.4	34
70	Nanogenerator for scavenging low frequency vibrations. <i>Journal of Micromechanics and Microengineering</i> , 2019, 29, 053001.	1.5	34
71	Thermally reduced graphene oxide-nylon membrane based epidermal sensor using vacuum filtration for wearable electrophysiological signals and human motion monitoring. <i>Carbon</i> , 2020, 158, 386-393.	5.4	34
72	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

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73	A Battery-Free Arbitrary Motion Sensing System Using Magnetic Repulsion-Based Self-Powered Motion Sensors and Hybrid Nanogenerator. <i>Advanced Functional Materials</i> , 2020, 30, 2003276.	7.8	33
74	Ultra-robust and broadband rotary hybridized nanogenerator for self-sustained smart-farming applications. <i>Nano Energy</i> , 2021, 85, 105974.	8.2	33
75	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
76	Carboxyl Terminated Reduced Graphene Oxide (Crbxl-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
77	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
78	An Electrodeposited MXene-Ti <sub>3</sub> C <sub>2</sub> T <sub>x</sub> Nanosheets Functionalized by Task-Specific Ionic Liquid for Simultaneous and Multiplexed Detection of Bladder Cancer Biomarkers. <i>Small</i> , 2020, 16, e2002517.	5.2	31
79	Piezoelectric energy harvester using impact-driven flexible side-walls for human-limb motion. <i>Microsystem Technologies</i> , 2018, 24, 2099-2107.	1.2	30
80	A highly selective and stable cationic polyelectrolyte encapsulated black phosphorene based impedimetric immunosensor for Interleukin-6 biomarker detection. <i>Biosensors and Bioelectronics</i> , 2021, 186, 113287.	5.3	29
81	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
82	Hysteresis-Free Double-Network Hydrogel-Based Strain Sensor for Wearable Smart Bioelectronics. <i>ACS Applied Materials &amp; Interfaces</i> , 2022, 14, 31363-31372.	4.0	29
83	Green Synthesis of Reduced Graphene Oxide Decorated with Few-Layered MoS <sub>2</sub> -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
84	Nanolaminated Permalloy Core for High-Flux, High-Frequency Ultracompact Power Conversion. <i>IEEE Transactions on Power Electronics</i> , 2013, 28, 4376-4383.	5.4	26
85	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
86	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
87	Fashionable wrist band using highly conductive fabric for electrocardiogram signal monitoring. <i>Journal of Industrial Textiles</i> , 2019, 49, 243-261.	1.1	25
88	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
89	Polyaziridine-Encapsulated Phosphorene-Incorporated Flexible 3D Porous Graphene for Multimodal Sensing and Energy Storage Applications. <i>Advanced Functional Materials</i> , 2021, 31, 2009018.	7.8	25
90	A Hybrid Electromagnetic-Triboelectric Energy Harvester Using a Dual Halbach Magnet Array Powered by Human-Body-Induced Motion. <i>Advanced Materials Technologies</i> , 2018, 3, 1700240.	3.0	24

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91	A sandpaper-inspired flexible and stretchable resistive sensor for pressure and strain measurement. <i>Organic Electronics</i> , 2018, 62, 581-590.	1.4	24
92	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
93	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
94	An Enzymatic Hybrid Electrode Platform Based on Chemically Modified Reduced Graphene Oxide Decorated with Palladium and Platinum Alloy Nanoparticles for Biosensing Applications. <i>Journal of the Electrochemical Society</i> , 2015, 162, B185-B192.	1.3	19
95	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
96	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
97	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
98	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
99	Photothermal sterilization cellulose patch with hollow gold nanoparticles. <i>Journal of Industrial and Engineering Chemistry</i> , 2021, 95, 120-125.	2.9	16
100	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
101	Characterization of Fully Embedded RF Inductors in Organic SOP Technology. <i>IEEE Transactions on Advanced Packaging</i> , 2009, 32, 491-496.	1.7	15
102	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
103	Comparison of Micro- and Nano-Pore Platinum Working Electrodes for CMOS Integrated Nondisposable Biosensor Applications. <i>IEEE Sensors Journal</i> , 2007, 7, 945-946.	2.4	14
104	Palladium nanoparticles on electrochemically reduced chemically modified graphene oxide for non-enzymatic bimolecular sensing. <i>RSC Advances</i> , 2013, 3, 16109.	1.7	14
105	High-performance keyboard typing motion driven hybrid nanogenerator. <i>Nano Energy</i> , 2021, 88, 106232.	8.2	14
106	Fully Embedded High Q Passives and Band Pass Filters for Low Cost Organic RF SOP (System on Tj ETQq0 0 0 rgBT /Overlock, 10 Tf 50 1		13
107	Micro-fabricated flexible PZT cantilever using d33 mode for energy harvesting. <i>Micro and Nano Systems Letters</i> , 2017, 5, .	1.7	13
108	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

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109	3- to 5-GHz Ultra-Compact Bandpass Filter With Independent Transmission Zeros Using PCB Embedding Passive Technology. IEEE Transactions on Components, Packaging and Manufacturing Technology, 2012, 2, 1064-1069.	1.4	10
110	Highly conductive and flexible chitosan based multi-wall carbon nanotube/polyurethane composite fibers. RSC Advances, 2016, 6, 2149-2154.	1.7	10
111	Highly conductive and flexible thin film electrodes based on silver nanowires wrapped carbon fiber networks for supercapacitor applications. Thin Solid Films, 2018, 660, 564-571.	0.8	10
112	A rime ice-inspired bismuth-based flexible sensor for zinc ion detection in human perspiration. Mikrochimica Acta, 2021, 188, 97.	2.5	10
113	Fully Embedded 2.4GHz LC-Balun into Organic Package Substrate with Series Resonant Tank Circuit. IEEE MTT-S International Microwave Symposium Digest IEEE MTT-S International Microwave Symposium, 2007, , .	0.0	9
114	Vacuum filtered conductive nylon membrane-based flexible TENG for wearable electronics. Micro and Nano Letters, 2017, 12, 697-700.	0.6	9
115	A flexible cable-shaped supercapacitor based on carbon fibers coated with graphene flakes for wearable electronic applications. Micro and Nano Systems Letters, 2019, 7, .	1.7	9
116	A nanocomposite-decorated laser-induced graphene-based multi-functional hybrid sensor for simultaneous detection of water contaminants. Analytica Chimica Acta, 2022, 1209, 339872.	2.6	9
117	Siloxene-functionalized Laser-induced Graphene via C <sub>1s</sub> /O <sub>1s</sub> /Si Bonding for High-performance Heavy Metal Sensing Patch Applications. Small, 2022, 18, .	5.2	9
118	PCB Embedded 2.4GHz Compact Bandpass Filter with Two Finite Transmission Zeros. , 2007, , .		8
119	Fabrication and Characterization of Macroporous Gold Hybrid Sensing Electrodes With Electroplated Platinum Nanoparticles. IEEE Nanotechnology Magazine, 2011, 10, 1298-1305.	1.1	8
120	A handy motion driven, frequency up-converting piezoelectric energy harvester using flexible base for wearable sensors applications. , 2015, , .		8
121	Electrodeposited Nanolaminated CoNiFe Cores for Ultracompact DC-DC Power Conversion. IEEE Transactions on Power Electronics, 2015, 30, 5078-5087.	5.4	8
122	Solvothermal-Assisted, Reduced-Graphene-Oxide-Modified Bismuth Electrode for an Electrochemical Heavy-Metal-Ion Sensor. Journal of Nanoscience and Nanotechnology, 2016, 16, 11421-11424.	0.9	8
123	Compact quintplexer module with meshed ground plane for US-CDMA handset applications. , 2009, , .		7
124	Compact PCB embedded tunable filter for UHF TV broadcasting. , 2009, , .		7
125	Micro-fabricated silicon spiral spring based electromagnetic energy harvester. Journal of the Korean Physical Society, 2013, 62, 1720-1725.	0.3	7
126	A PDMS based triboelectric energy harvester as self-powered, active tactile sensor system for human skin. , 2015, , .		7



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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	Fully embedded lumped LC-quadrature hybrid coupler into organic packaging substrate for power sampling. Microwave and Optical Technology Letters, 2009, 51, 845-848.	0.9	6
129	Ultracompact UHF Tunable Filter Embedded Into Multilayered Organic Packaging Substrate. IEEE Transactions on Components, Packaging and Manufacturing Technology, 2012, 2, 46-52.	1.4	6
130	Impact based frequency increased piezoelectric vibration energy harvester for human motion related environments. , 2013, , .		6
131	Miniaturized flexible sensor with reduced graphene oxide/carbon nano tube modified bismuth working electrode for heavy metal detection. , 2017, , .		6
132	Compact WiMAX filter with three independent transmission zeros using PCB embedded passive technology. , 2009, , .		5
133	An Electrospun PVDF-TRFE/Mxene Nanofibrous Mat-Based Self-Powered Motion Sensor. , 2021, , .		5
134	Highly Responsive and Robust Micro-/Nano-Textured Self-Powered Triboelectric Humidity Sensor. ACS Applied Electronic Materials, 0, , .	2.0	5
135	A High-Performance Rotational Energy Harvester Integrated with Artificial Intelligence-Powered Triboelectric Sensors for Wireless Environmental Monitoring System. Advanced Engineering Materials, 2022, 24, .	1.6	5
136	A LTCC multi-layered front-end module for IEEE 802.11a/b/g DWLAN system-on-package applications. Microwave and Optical Technology Letters, 2006, 48, 2018-2021.	0.9	4
137	PCB embedded compact balanced filter with coupled LC resonators. , 2009, , .		4
138	A non-enzymatic micro-needle patch sensor for freecholesterol continuous monitoring. , 2014, , .		4
139	Actively formed gold dual anchor structures-based RF MEMS tunable capacitor. Microwave and Optical Technology Letters, 2015, 57, 1451-1454.	0.9	4
140	Easy and Direct Sensing of Toxic Cadmium Using In Situ Bismuth Plating Free Method and Environmentally Friendly Synthesized Graphene Composite. Journal of the Electrochemical Society, 2019, 166, B637-B643.	1.3	4
141	Fully embedded UWB filter into organic packaging substrate. , 2009, , .		3
142	Flexible enzyme free glucose micro-sensor for continuous monitoring applications. , 2009, , .		3
143	Lattice-type balun with enhanced phase characteristic based on organic system on a package technology. Microwave and Optical Technology Letters, 2009, 51, 399-402.	0.9	3
144	A Fully Integrated Switched Capacitor using Low Temperature and Wet Release Process for Reconfigurable CMOS Triple-band Power Amplifier. , 2019, , .		3

#	ARTICLE	IF	CITATIONS
145	Carbon-Free Nanocoral-Structured Platinum Electrocatalyst for Enhanced Methanol Oxidation Reaction Activity with Superior Poison Tolerance. ChemElectroChem, 2020, 7, 452-459.	1.7	3
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