

Kwi-Il Park

List of Publications by Year in Descending Order

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Version: 2024-04-10

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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.

69 papers	5,092 citations	28 h-index	71 g-index
73 ext. papers	5,897 ext. citations	11.2 avg, IF	5.6 L-index

#	Paper	IF	Citations
69	High-temperature workable flexible piezoelectric energy harvester comprising thermally stable (K,Na)NbO ₃ -based ceramic and polyimide composites. <i>Composites Part B: Engineering</i> , 2022 , 234, 109671	10	0
68	Ferroelectric Polymer Nanofibers Reminiscent of Morphotropic Phase Boundary Behavior for Improved Piezoelectric Energy Harvesting.. <i>Small</i> , 2022 , e2104472	11	1
67	Enhanced poling efficiency via a maximized organic-inorganic interfacial effect for water droplet-driven energy harvesting. <i>Nano Energy</i> , 2022 , 98, 107238	17.1	0
66	Ferroelectric Polymer Nanofibers Reminiscent of Morphotropic Phase Boundary Behavior for Improved Piezoelectric Energy Harvesting (Small 15/2022). <i>Small</i> , 2022 , 18, 2270072	11	
65	Ultra-magnetic field sensitive magnetoelectric composite with sub-pT detection limit at low frequency enabled by flash photon annealing. <i>Nano Energy</i> , 2021 , 90, 106598	17.1	2
64	Kinetic motion sensors based on flexible and lead-free hybrid piezoelectric composite energy harvesters with nanowires-embedded electrodes for detecting articular movements. <i>Composites Part B: Engineering</i> , 2021 , 212, 108705	10	17
63	Enhanced Energy Conversion Performance of a MagnetoMechanoElectric Generator Using a Laminate Composite Made of Piezoelectric Polymer and Metallic Glass. <i>Advanced Electronic Materials</i> , 2021 , 7, 2000969	6.4	7
62	Synergistically Improved Thermoelectric Energy Harvesting of Edge-Oxidized-Graphene-Bridged N-Type Bismuth Telluride Thick Films. <i>ACS Applied Materials & Interfaces</i> , 2021 , 13, 5125-5132	9.5	5
61	Synergetic enhancement of the energy harvesting performance in flexible hybrid generator driven by human body using thermoelectric and piezoelectric combine effects. <i>Applied Surface Science</i> , 2021 , 558, 149784	6.7	5
60	Role of oxygen vacancy defects in piezoelectric thermal stability characteristics of Mn-doped (K,Na,Li)NbO ₃ piezoceramics. <i>Ceramics International</i> , 2021 , 47, 27803-27815	5.1	5
59	Synthesis and characterization of carbon-coated Cu-Ni alloy nanoparticles and their application in conductive films. <i>Applied Surface Science</i> , 2021 , 566, 150672	6.7	4
58	Flexoelectric-boosted piezoelectricity of BaTiO ₃ @SrTiO ₃ core-shell nanostructure determined by multiscale simulations for flexible energy harvesters. <i>Nano Energy</i> , 2021 , 89, 106469	17.1	4
57	Enhanced output power of thermoelectric modules with reduced contact resistance by adopting the optimized Ni diffusion barrier layer. <i>Journal of Alloys and Compounds</i> , 2021 , 884, 161119	5.7	1
56	Enhanced thermoelectric composite performance from mesoporous carbon additives in a commercial Bi _{0.5} Sb _{1.5} Te ₃ matrix. <i>Journal of Materials Science and Technology</i> , 2021 , 94, 175-182	9.1	7
55	Piezoelectric BaTiO ₃ microclusters and embossed ZnSnO ₃ microspheres-based monolayer for highly-efficient and flexible composite generator. <i>Composites Part B: Engineering</i> , 2020 , 203, 108476	10	10
54	(K,Na)NbO ₃ -LiNbO ₃ nanocube-based flexible and lead-free piezoelectric nanocomposite energy harvesters. <i>Journal of the Korean Ceramic Society</i> , 2020 , 57, 401-408	2.2	12
53	Piezoelectricity of picosecond laser-synthesized perovskite BaTiO ₃ nanoparticles. <i>Applied Surface Science</i> , 2020 , 511, 145614	6.7	8

52	Selective Phase Control of Dopant-Free Potassium Sodium Niobate Perovskites in Solution. <i>Inorganic Chemistry</i> , 2020 , 59, 3042-3052	5.1	16
51	Piezoelectric energy conversion by lead-free perovskite BaTiO ₃ nanotube arrays fabricated using electrochemical anodization. <i>Applied Surface Science</i> , 2020 , 512, 144784	6.7	14
50	Laser-directed synthesis of strain-induced crumpled MoS ₂ structure for enhanced triboelectrification toward haptic sensors. <i>Nano Energy</i> , 2020 , 78, 105266	17.1	40
49	Piezoelectric Flexible Energy Harvester Based on BaTiO ₃ Thin Film Enabled by Exfoliating the Mica Substrate. <i>Energy Technology</i> , 2019 , 7, 1980353	3.5	3
48	Piezoelectric Energy Harvesting from Two-Dimensional Boron Nitride Nanoflakes. <i>ACS Applied Materials & Interfaces</i> , 2019 , 11, 37920-37926	9.5	58
47	Vertically Aligned Piezoelectric Perovskite Nanowire Array on Flexible Conducting Substrate for Energy Harvesting Applications. <i>Advanced Materials Technologies</i> , 2019 , 4, 1900228	6.8	10
46	A Comparison Study of Fatigue Behavior of Hard and Soft Piezoelectric Single Crystal Macro-Fiber Composites for Vibration Energy Harvesting. <i>Sensors</i> , 2019 , 19,	3.8	25
45	Dual-Structured Flexible Piezoelectric Film Energy Harvesters for Effectively Integrated Performance. <i>Sensors</i> , 2019 , 19,	3.8	17
44	Piezoelectric Flexible Energy Harvester Based on BaTiO ₃ Thin Film Enabled by Exfoliating the Mica Substrate. <i>Energy Technology</i> , 2019 , 7, 1900638	3.5	18
43	Flexible Electronics: Vertically Aligned Piezoelectric Perovskite Nanowire Array on Flexible Conducting Substrate for Energy Harvesting Applications (Adv. Mater. Technol. 8/2019). <i>Advanced Materials Technologies</i> , 2019 , 4, 1970046	6.8	
42	Modulation of surface physics and chemistry in triboelectric energy harvesting technologies. <i>Science and Technology of Advanced Materials</i> , 2019 , 20, 758-773	7.1	65
41	Flexible Energy Harvester Made of Organic-Inorganic Hybrid Piezoelectric Nanocomposite. <i>Korean Journal of Materials Research</i> , 2019 , 29, 371-377	0.2	3
40	A Comparison Study of Output Performance of Organic-Inorganic Piezoelectric Nanocomposite Made of Piezoelectric/Non-piezoelectric Polymers and BaTiO ₃ Nanoparticles. <i>Journal of Korean Powder Metallurgy Institute</i> , 2019 , 26, 119-125	0.1	1
39	Nanowire-percolated piezoelectric copolymer-based highly transparent and flexible self-powered sensors. <i>Journal of Materials Chemistry A</i> , 2019 , 7, 25481-25489	13	43
38	Inverse size-dependence of piezoelectricity in single BaTiO ₃ nanoparticles. <i>Nano Energy</i> , 2019 , 58, 78-84	17.1	17
37	Self-powered flexible electronics beyond thermal limits. <i>Nano Energy</i> , 2019 , 56, 531-546	17.1	51
36	Lead-Free Perovskite Nanowire-Employed Piezopolymer for Highly Efficient Flexible Nanocomposite Energy Harvester. <i>Small</i> , 2018 , 14, e1704022	11	102
35	Enhanced output performance of a lead-free nanocomposite generator using BaTiO ₃ nanoparticles and nanowires filler. <i>Applied Surface Science</i> , 2018 , 429, 164-170	6.7	31

34	Recent Progress in Flexible Energy Harvesting Devices based on Piezoelectric Nanomaterials. <i>Journal of Korean Powder Metallurgy Institute</i> , 2018 , 25, 263-272	0.1	4
33	CO2 Capture & Separation in Microporous Materials: A Comparison Between Porous Carbon and Flexible MOFs. <i>Korean Journal of Materials Research</i> , 2018 , 28, 417-422	0.2	
32	Lead-free BaTiO ₃ Nanowire Arrays-based Piezoelectric Energy Harvester. <i>MRS Advances</i> , 2017 , 2, 3415-3420	4.7	7
31	Facile hydrothermal synthesis of BaZrxTi1-xO ₃ nanoparticles and their application to a lead-free nanocomposite generator. <i>RSC Advances</i> , 2017 , 7, 2851-2856	3.7	23
30	Piezoelectric energy harvesting from a PMNBT single nanowire. <i>RSC Advances</i> , 2017 , 7, 260-265	3.7	48
29	All-inkjet-printed flexible piezoelectric generator made of solvent evaporation assisted BaTiO ₃ hybrid material. <i>Nano Energy</i> , 2017 , 41, 337-343	17.1	45
28	Flexible highly-effective energy harvester via crystallographic and computational control of nanointerfacial morphotropic piezoelectric thin film. <i>Nano Research</i> , 2017 , 10, 437-455	10	74
27	Self-Powered Devices: Self-Powered Wireless Sensor Node Enabled by an Aerosol-Deposited PZT Flexible Energy Harvester (Adv. Energy Mater. 13/2016). <i>Advanced Energy Materials</i> , 2016 , 6,	21.8	3
26	Recent progress in flexible and stretchable piezoelectric devices for mechanical energy harvesting, sensing and actuation. <i>Extreme Mechanics Letters</i> , 2016 , 9, 269-281	3.9	281
25	Stretchable piezoelectric nanocomposite generator. <i>Nano Convergence</i> , 2016 , 3, 12	9.2	71
24	Self-Powered Wireless Sensor Node Enabled by an Aerosol-Deposited PZT Flexible Energy Harvester. <i>Advanced Energy Materials</i> , 2016 , 6, 1600237	21.8	119
23	A flexible energy harvester based on a lead-free and piezoelectric BCTZ nanoparticle-polymer composite. <i>Nanoscale</i> , 2016 , 8, 17632-17638	7.7	78
22	A Reconfigurable Rectified Flexible Energy Harvester via Solid-State Single Crystal Grown PMNBTZ. <i>Advanced Energy Materials</i> , 2015 , 5, 1500051	21.8	95
21	High-Temperature Fracture Strength of a CVD-SiC Coating Layer for TRISO Nuclear Fuel Particles by a Micro-Tensile Test. <i>Journal of the Korean Ceramic Society</i> , 2015 , 52, 441-448	2.2	3
20	Highly-efficient, flexible piezoelectric PZT thin film nanogenerator on plastic substrates. <i>Advanced Materials</i> , 2014 , 26, 2514-20	24	538
19	Nanogenerators: Highly-Efficient, Flexible Piezoelectric PZT Thin Film Nanogenerator on Plastic Substrates (Adv. Mater. 16/2014). <i>Advanced Materials</i> , 2014 , 26, 2450-2450	24	9
18	Reliable control of filament formation in resistive memories by self-assembled nanoinsulators derived from a block copolymer. <i>ACS Nano</i> , 2014 , 8, 9492-502	16.7	77
17	Self-powered fully-flexible light-emitting system enabled by flexible energy harvester. <i>Energy and Environmental Science</i> , 2014 , 7, 4035-4043	35.4	144

16	Flexible crossbar-structured resistive memory arrays on plastic substrates via inorganic-based laser lift-off. <i>Advanced Materials</i> , 2014 , 26, 7480-7	24	102
15	Self-powered cardiac pacemaker enabled by flexible single crystalline PMN-PT piezoelectric energy harvester. <i>Advanced Materials</i> , 2014 , 26, 4880-7	24	445
14	Lead-free BaTiO ₃ nanowires-based flexible nanocomposite generator. <i>Nanoscale</i> , 2014 , 6, 8962-8	7.7	88
13	Nanogenerators: Self-Powered Cardiac Pacemaker Enabled by Flexible Single Crystalline PMN-PT Piezoelectric Energy Harvester (Adv. Mater. 28/2014). <i>Advanced Materials</i> , 2014 , 26, 4754-4754	24	1
12	Large-Area and Flexible Lead-Free Nanocomposite Generator Using Alkaline Niobate Particles and Metal Nanorod Filler. <i>Advanced Functional Materials</i> , 2014 , 24, 2620-2629	15.6	176
11	Flexible Electronics: Flexible Crossbar-Structured Resistive Memory Arrays on Plastic Substrates via Inorganic-Based Laser Lift-Off (Adv. Mater. 44/2014). <i>Advanced Materials</i> , 2014 , 26, 7418-7418	24	1
10	Flexible and Large-Area Nanocomposite Generators Based on Lead Zirconate Titanate Particles and Carbon Nanotubes. <i>Advanced Energy Materials</i> , 2013 , 3, 1539-1544	21.8	184
9	Virus-directed design of a flexible BaTiO ₃ nanogenerator. <i>ACS Nano</i> , 2013 , 7, 11016-25	16.7	187
8	Nanocomposites: Flexible and Large-Area Nanocomposite Generators Based on Lead Zirconate Titanate Particles and Carbon Nanotubes (Adv. Energy Mater. 12/2013). <i>Advanced Energy Materials</i> , 2013 , 3, 1530-1530	21.8	5
7	Bendable inorganic thin-film battery for fully flexible electronic systems. <i>Nano Letters</i> , 2012 , 12, 4810-6	11.5	431
6	Water-resistant flexible GaN LED on a liquid crystal polymer substrate for implantable biomedical applications. <i>Nano Energy</i> , 2012 , 1, 145-151	17.1	107
5	Flexible nanocomposite generator made of BaTiO ₃ nanoparticles and graphitic carbons. <i>Advanced Materials</i> , 2012 , 24, 2999-3004, 2937	24	511
4	Bendable and Transparent Barium Titanate Capacitors on Plastic Substrates for High Performance Flexible Ferroelectric Devices. <i>Electrochemical and Solid-State Letters</i> , 2010 , 13, G57		18
3	Piezoelectric BaTiO ₃ thin film nanogenerator on plastic substrates. <i>Nano Letters</i> , 2010 , 10, 4939-43	11.5	597
2	HIGH TEMPERATURE MECHANICAL PROPERTIES OF CVD-SiC THIN FILMS. <i>Modern Physics Letters B</i> , 2009 , 23, 3877-3886	1.6	9
1	Exceeding 50 mW RMS-Output Magneto-Mechano-Electric Generator by Hybridizing Piezoelectric and Electromagnetic Induction Effects. <i>Advanced Functional Materials</i> , 2012 , 22, 2112-28	15.6	2