

Geon-Tae Hwang

List of Publications by Year in Descending Order

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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

5,754

citations

29

h-index

75

g-index

76

ext. papers

6,779

ext. citations

13.6

avg, IF

5.66

L-index

#	Paper	IF	Citations
69	Effect of aspect ratio of piezoelectric constituents on the energy harvesting performance of magneto-mechano-electric generators. <i>Energy</i> , 2022 , 239, 122078	7.9	2
68	Conformably Skin-Adherent Piezoelectric Patch with Bioinspired Hierarchically Arrayed Microsuckers Enables Physical Energy Amplification. <i>ACS Energy Letters</i> , 2022 , 7, 1820-1827	20.1	1
67	Harvesting electrical energy using plasmon-enhanced light pressure in a platinum cut cone. <i>Optics Express</i> , 2021 , 29, 35161-35171	3.3	3
66	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
65	Enhancement of Energy-Harvesting Performance of Magneto-Mechano-Electric Generators through Optimization of the Interfacial Layer. <i>ACS Applied Materials & Interfaces</i> , 2021 , 13, 19983-19991	9.5	6
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	Multiscale surface modified magneto-mechano-triboelectric nanogenerator enabled by eco-friendly NaCl imprinting stamp for self-powered IoT applications. <i>Nanoscale</i> , 2021 , 13, 8418-8424	7.7	4
62	Lifetime estimation of single crystal macro-fiber composite-based piezoelectric energy harvesters using accelerated life testing. <i>Nano Energy</i> , 2021 , 88, 106279	17.1	3
61	Fatigue study and durability improvement of piezoelectric single crystal macro-fiber composite energy harvester. <i>Journal of the Korean Ceramic Society</i> , 2020 , 57, 645-650	2.2	7
60	Optogenetic brain neuromodulation by stray magnetic field via flash-enhanced magneto-mechano-triboelectric nanogenerator. <i>Nano Energy</i> , 2020 , 75, 104951	17.1	23
59	(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
58	An easy approach to obtain large piezoelectric constant in high-quality transparent ceramics by normal sintering process in modified potassium sodium niobate ceramics. <i>Journal of the European Ceramic Society</i> , 2020 , 40, 2989-2995	6	6
57	Selective Phase Control of Dopant-Free Potassium Sodium Niobate Perovskites in Solution. <i>Inorganic Chemistry</i> , 2020 , 59, 3042-3052	5.1	16
56	An easy approach to obtain textured microstructure and transparent seed crystal prepared by simple molten salt synthesis in modified potassium sodium Niobate. <i>Journal of the European Ceramic Society</i> , 2020 , 40, 1232-1235	6	4
55	Enhanced Mechanical Quality Factor of 32 Mode Mn Doped 71Pb(Mg _{1/3} Nb _{2/3})O ₃ 9PbZrTiO ₃ Piezoelectric Single Crystals. <i>Electronic Materials Letters</i> , 2020 , 16, 156-163	2.9	12
54	Effect of Nb ₂ O ₅ addition on microstructure and thermal/mechanical properties in zirconia-toughened alumina sintered at low temperature. <i>Ceramics International</i> , 2020 , 46, 23820-23827	5.1	0
53	Vacancy engineering in rock-salt type (IV-VI) _x (V-VI) materials for high thermoelectric performance. <i>Nano Energy</i> , 2020 , 78, 105198	17.1	6

52	Significant power enhancement of magneto-mechano-electric generators by magnetic flux concentration. <i>Energy and Environmental Science</i> , 2020 , 13, 4238-4248	35.4	15
51	An easy approach to manufacture high quality zirconia-toughened alumina. <i>Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2020 , 784, 139328	5.3	2
50	Face-shear 36-mode magnetoelectric composites with piezoelectric single crystal and Metglas laminate. <i>Applied Physics Letters</i> , 2019 , 115, 102901	3.4	18
49	A high output magneto-mechano-triboelectric generator enabled by accelerated water-soluble nano-bullets for powering a wireless indoor positioning system. <i>Energy and Environmental Science</i> , 2019 , 12, 666-674	35.4	57
48	Heterostructures in two-dimensional colloidal metal chalcogenides: Synthetic fundamentals and applications. <i>Nano Research</i> , 2019 , 12, 1750-1769	10	19
47	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
46	Linear and Nonlinear Dielectric Ceramics for High-Power Energy Storage Capacitor Applications. <i>Journal of the Korean Ceramic Society</i> , 2019 , 56, 1-23	2.2	43
45	High Energy Storage Properties and Electrical Field Stability of Energy Efficiency of (Pb _{0.89} La _{0.11})(Zr _{0.70} Ti _{0.30}) _{0.9725} O ₃ Relaxor Ferroelectric Ceramics. <i>Electronic Materials Letters</i> , 2019 , 15, 323-330	2.9	24
44	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
43	Effect of Thickness Ratio in Piezoelectric/Elastic Cantilever Structure on the Piezoelectric Energy Harvesting Performance. <i>Electronic Materials Letters</i> , 2019 , 15, 61-69	2.9	7
42	Inverse size-dependence of piezoelectricity in single BaTiO ₃ nanoparticles. <i>Nano Energy</i> , 2019 , 58, 78-84	17.1	17
41	Exceeding milli-watt powering magneto-mechano-electric generator for standalone-powered electronics. <i>Energy and Environmental Science</i> , 2018 , 11, 818-829	35.4	62
40	Enhanced Self-Biased Magnetoelectric Coupling in Laser-Annealed Pb(Zr,Ti)O Thick Film Deposited on Ni Foil. <i>ACS Applied Materials & Interfaces</i> , 2018 , 10, 11018-11025	9.5	22
39	Energy storage characteristics of {001} oriented Pb(Zr _{0.52} Ti _{0.48})O ₃ thin film grown by chemical solution deposition. <i>Thin Solid Films</i> , 2018 , 660, 434-438	2.2	12
38	High-Performance Dielectric Ceramic Films for Energy Storage Capacitors: Progress and Outlook. <i>Advanced Functional Materials</i> , 2018 , 28, 1803665	15.6	326
37	Room-Temperature Solid-State Grown WO ₃ Film on Plastic Substrate for Extremely Sensitive Flexible NO ₂ Gas Sensors. <i>Advanced Materials Interfaces</i> , 2018 , 5, 1700811	4.6	15
36	Effect of elastic modulus of cantilever beam on the performance of unimorph type piezoelectric energy harvester. <i>APL Materials</i> , 2018 , 6, 121107	5.7	11
35	Enhancement of Magnetoelectric Conversion Achieved by Optimization of Interfacial Adhesion Layer in Laminate Composites. <i>ACS Applied Materials & Interfaces</i> , 2018 , 10, 32323-32330	9.5	27

34	Highly tunable magnetoelectric response in dimensional gradient laminate composites of Fe-Ga alloy and Pb(Mg _{1/3} Nb _{2/3})O ₃ -Pb(Zr,Ti)O ₃ single crystal. <i>Journal of Alloys and Compounds</i> , 2018 , 765, 764-770	5.7	18
33	Boosting the Recoverable Energy Density of Lead-Free Ferroelectric Ceramic Thick Films through Artificially Induced Quasi-Relaxor Behavior. <i>ACS Applied Materials & Interfaces</i> , 2018 , 10, 20720-20727	9.5	43
32	Comprehensive biocompatibility of nontoxic and high-output flexible energy harvester using lead-free piezoceramic thin film. <i>APL Materials</i> , 2017 , 5, 074102	5.7	105
31	In Vivo Self-Powered Wireless Transmission Using Biocompatible Flexible Energy Harvesters. <i>Advanced Functional Materials</i> , 2017 , 27, 1700341	15.6	107
30	31-mode piezoelectric micromachined ultrasonic transducer with PZT thick film by granule spraying in vacuum process. <i>Applied Physics Letters</i> , 2017 , 110, 212903	3.4	22
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	Magnetic energy harvesting with magnetoelectrics: an emerging technology for self-powered autonomous systems. <i>Sustainable Energy and Fuels</i> , 2017 , 1, 2039-2052	5.8	66
27	Flash-Induced Self-Limited Plasmonic Welding of Silver Nanowire Network for Transparent Flexible Energy Harvester. <i>Advanced Materials</i> , 2017 , 29, 1603473	24	153
26	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
25	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
24	A Reconfigurable Rectified Flexible Energy Harvester via Solid-State Single Crystal Grown PMN/PZT. <i>Advanced Energy Materials</i> , 2015 , 5, 1500051	21.8	95
23	Self-powered deep brain stimulation via a flexible PIMNT energy harvester. <i>Energy and Environmental Science</i> , 2015 , 8, 2677-2684	35.4	156
22	A hyper-stretchable elastic-composite energy harvester. <i>Advanced Materials</i> , 2015 , 27, 2866-75	24	281
21	Flexible piezoelectric thin-film energy harvesters and nanosensors for biomedical applications. <i>Advanced Healthcare Materials</i> , 2015 , 4, 646-58	10.1	187
20	Self-powered flexible inorganic electronic system. <i>Nano Energy</i> , 2015 , 14, 111-125	17.1	94
19	Highly-efficient, flexible piezoelectric PZT thin film nanogenerator on plastic substrates. <i>Advanced Materials</i> , 2014 , 26, 2514-20	24	538
18	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
17	Topographically-designed triboelectric nanogenerator via block copolymer self-assembly. <i>Nano Letters</i> , 2014 , 14, 7031-8	11.5	258

16	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
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	Flexible Inorganic Piezoelectric Acoustic Nanosensors for Biomimetic Artificial Hair Cells. <i>Advanced Functional Materials</i> , 2014 , 24, 6914-6921	15.6	132
13	Sensors: Flexible Inorganic Piezoelectric Acoustic Nanosensors for Biomimetic Artificial Hair Cells (Adv. Funct. Mater. 44/2014). <i>Advanced Functional Materials</i> , 2014 , 24, 6898-6898	15.6	
12	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
11	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
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	Multicomponent nanopatterns by directed block copolymer self-assembly. <i>ACS Nano</i> , 2013 , 7, 8899-907	16.7	86
8	In vivo silicon-based flexible radio frequency integrated circuits monolithically encapsulated with biocompatible liquid crystal polymers. <i>ACS Nano</i> , 2013 , 7, 4545-53	16.7	92
7	Virus-directed design of a flexible BaTiO ₃ nanogenerator. <i>ACS Nano</i> , 2013 , 7, 11016-25	16.7	187
6	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
5	Flexible nanocomposite generator made of BaTiO ₃ nanoparticles and graphitic carbons. <i>Advanced Materials</i> , 2012 , 24, 2999-3004, 2937	24	511
4	Piezoelectric BaTiO ₃ thin film nanogenerator on plastic substrates. <i>Nano Letters</i> , 2010 , 10, 4939-43	11.5	597
3	Flexible Self-Charging, Ultrafast, High-Power-Density Ceramic Capacitor System. <i>ACS Energy Letters</i> , 2013 , 4, 1391-1391	13.8	12
2	High performance of polycrystalline piezoelectric ceramic-based magneto-mechano-electric energy generators. <i>Journal of Asian Ceramic Societies</i> , 1-8	2.4	2
1	Exceeding 50 mW RMS-Output Magneto-Mechano-Electric Generator by Hybridizing Piezoelectric and Electromagnetic Induction Effects. <i>Advanced Functional Materials</i> , 2012 , 22, 2112-2112	15.6	2