Chang Kyu Jeong

List of Publications by Year in Descending Order

79 papers	5,519 citations	40 h-index	74 g-index
86 ext. papers	6,607 ext. citations	13.4 avg, IF	5.9 L-index

#	Paper	IF	Citations
79	BNNT-ZnO QDs nanocomposites for improving piezoelectric nanogenerator and piezoelectric properties of boron nitride nanotube. *Nano Energy*, **2022**, 93, 106886	17.1	3
78	Ferroelectric Polymer Nanofibers Reminiscent of Morphotropic Phase Boundary Behavior for Improved Piezoelectric Energy Harvesting.. *Small*, **2022**, e2104472	11	1
77	Ultrahigh augmentation of flexible composite-based piezoelectric energy harvesting efficiency via polymer-impregnated nanoparticles network within 3D cellulose scaffold. *Composites Part B: Engineering*, **2022**, 236, 109813	10	1
76	Ferroelectric Polymer Nanofibers Reminiscent of Morphotropic Phase Boundary Behavior for Improved Piezoelectric Energy Harvesting (Small 15/2022). *Small*, **2022**, 18, 2270072	11	
75	Conformably Skin-Adherent Piezoelectric Patch with Bioinspired Hierarchically Arrayed Microsuckers Enables Physical Energy Amplification. *ACS Energy Letters*, **2022**, 7, 1820-1827	20.1	1
74	Nanointerfacial Layer Effect on Dielectric and Piezoelectric Responses in Chemical Solution-Derived Lead-Free Alkaline Niobate-Based Thin Films. *ACS Applied Materials & Interfaces*, **2021**, 13, 22047-22058	9.5	5
73	Kinetic motion sensors based on flexible and lead-free hybrid piezoelectric composite energy harvesters with nanowires-embedded electrodes for detecting articular movements. *Composites Part B: Engineering*, **2021**, 212, 108705	10	17
72	Flash-welded ultraflat silver nanowire network for flexible organic light-emitting diode and triboelectric tactile sensor. *APL Materials*, **2021**, 9, 061112	5.7	4
71	Triboelectrification: Backflow and Stuck Charges Are Key. *ACS Energy Letters*, **2021**, 6, 2792-2799	20.1	7
70	Multiscale surface modified magneto-mechano-triboelectric nanogenerator enabled by eco-friendly NaCl imprinting stamp for self-powered IoT applications. *Nanoscale*, **2021**, 13, 8418-8424	7.7	4
69	Triboelectrification of nanocomposites using identical polymer matrixes with different concentrations of nanoparticle fillers. *Journal of Materials Chemistry A*, **2021**, 9, 8984-8990	13	8
68	Biomimetic and flexible piezoelectric mobile acoustic sensors with multiresonant ultrathin structures for machine learning biometrics. *Science Advances*, **2021**, 7,	14.3	39
67	Hydrogel Ionic Diodes toward Harvesting Ultralow-Frequency Mechanical Energy. *Advanced Materials*, **2021**, 33, e2103056	24	13
66	Role of oxygen vacancy defects in piezoelectric thermal stability characteristics of Mn-doped (K,Na,Li)NbO3 piezoceramics. *Ceramics International*, **2021**, 47, 27803-27815	5.1	5
65	Synthesis and characterization of carbon-coated Cu-Ni alloy nanoparticles and their application in conductive films. *Applied Surface Science*, **2021**, 566, 150672	6.7	4
64	Flexoelectric-boosted piezoelectricity of BaTiO3@SrTiO3 core-shell nanostructure determined by multiscale simulations for flexible energy harvesters. *Nano Energy*, **2021**, 89, 106469	17.1	4
63	Progress in lead-free piezoelectric nanofiller materials and related composite nanogenerator devices. *Nanoscale Advances*, **2020**, 2, 3131-3149	5.1	31

62	Optogenetic brain neuromodulation by stray magnetic field via flash-enhanced magneto-mechano-triboelectric nanogenerator. *Nano Energy*, **2020**, 75, 104951	17.1	23
61	(K,Na)NbO3-LiNbO3 nanocube-based flexible and lead-free piezoelectric nanocomposite energy harvesters. *Journal of the Korean Ceramic Society*, **2020**, 57, 401-408	2.2	12
60	Toward bioimplantable and biocompatible flexible energy harvesters using piezoelectric ceramic materials. *MRS Communications*, **2020**, 10, 365-378	2.7	12
59	Selective Phase Control of Dopant-Free Potassium Sodium Niobate Perovskites in Solution. *Inorganic Chemistry*, **2020**, 59, 3042-3052	5.1	16
58	Lead-Free Bi0.5(Na0.78K0.22)TiO3 Nanoparticle Filler Elastomeric Composite Films for Paper-Based Flexible Power Generators. *Advanced Electronic Materials*, **2020**, 6, 1900950	6.4	17
57	Piezoelectric energy conversion by lead-free perovskite BaTiO3 nanotube arrays fabricated using electrochemical anodization. *Applied Surface Science*, **2020**, 512, 144784	6.7	14
56	Triboelectric Nanogenerator versus Piezoelectric Generator at Low Frequency (. *IScience*, **2020**, 23, 101266	6.1	37
55	Laser-directed synthesis of strain-induced crumpled MoS2 structure for enhanced triboelectrification toward haptic sensors. *Nano Energy*, **2020**, 78, 105266	17.1	40
54	Piezoelectric Energy Harvesting from Two-Dimensional Boron Nitride Nanoflakes. *ACS Applied Materials & Interfaces*, **2019**, 11, 37920-37926	9.5	58
53	Out-of-plane piezoresponse of monolayer MoS2 on plastic substrates enabled by highly uniform and layer-controllable CVD. *Applied Surface Science*, **2019**, 487, 1356-1361	6.7	24
52	Dual-Structured Flexible Piezoelectric Film Energy Harvesters for Effectively Integrated Performance. *Sensors*, **2019**, 19,	3.8	17
51	Modulation of surface physics and chemistry in triboelectric energy harvesting technologies. *Science and Technology of Advanced Materials*, **2019**, 20, 758-773	7.1	65
50	Integrated Triboelectric Nanogenerators in the Era of the Internet of Things. *Advanced Science*, **2019**, 6, 1802230	13.6	95
49	Nanowire-percolated piezoelectric copolymer-based highly transparent and flexible self-powered sensors. *Journal of Materials Chemistry A*, **2019**, 7, 25481-25489	13	43
48	Inverse size-dependence of piezoelectricity in single BaTiO3 nanoparticles. *Nano Energy*, **2019**, 58, 78-84	17.1	17
47	Flexible vibrational energy harvesting devices using strain-engineered perovskite piezoelectric thin films. *Nano Energy*, **2019**, 55, 182-192	17.1	77
46	Self-powered flexible electronics beyond thermal limits. *Nano Energy*, **2019**, 56, 531-546	17.1	51
45	Flexible three-dimensional interconnected piezoelectric ceramic foam based composites for highly efficient concurrent mechanical and thermal energy harvesting. *Energy and Environmental Science*, **2018**, 11, 2046-2056	35.4	122

44	Lead-Free Perovskite Nanowire-Employed Piezopolymer for Highly Efficient Flexible Nanocomposite Energy Harvester. *Small*, **2018**, 14, e1704022	11	102
43	Flexible energy harvesting polymer composites based on biofibril-templated 3-dimensional interconnected piezoceramics. *Nano Energy*, **2018**, 50, 35-42	17.1	66
42	Flash-Induced Stretchable Cu Conductor via Multiscale-Interfacial Couplings. *Advanced Science*, **2018**, 5, 1801146	13.6	31
41	Biomimetic Porifera Skeletal Structure of Lead-Free Piezocomposite Energy Harvesters. *ACS Applied Materials & Interfaces*, **2018**, 10, 35539-35546	9.5	49
40	Review on Electromechanical Coupling Properties of Biomaterials.. *ACS Applied Bio Materials*, **2018**, 1, 936-953	4.1	56
39	Bioinspired elastic piezoelectric composites for high-performance mechanical energy harvesting. *Journal of Materials Chemistry A*, **2018**, 6, 14546-14552	13	65
38	Versatile Transfer of an Ultralong and Seamless Nanowire Array Crystallized at High Temperature for Use in High-Performance Flexible Devices. *ACS Nano*, **2017**, 11, 1520-1529	16.7	41
37	Comprehensive biocompatibility of nontoxic and high-output flexible energy harvester using lead-free piezoceramic thin film. *APL Materials*, **2017**, 5, 074102	5.7	105
36	Performance-enhanced triboelectric nanogenerator enabled by wafer-scale nanogrates of multistep pattern downscaling. *Nano Energy*, **2017**, 35, 415-423	17.1	101
35	Xenon Flash Lamp-Induced Ultrafast Multilayer Graphene Growth. *Particle and Particle Systems Characterization*, **2017**, 34, 1600429	3.1	21
34	In Vivo Self-Powered Wireless Transmission Using Biocompatible Flexible Energy Harvesters. *Advanced Functional Materials*, **2017**, 27, 1700341	15.6	107
33	Plasmonic-Tuned Flash Cu Nanowelding with Ultrafast Photochemical-Reducing and Interlocking on Flexible Plastics. *Advanced Functional Materials*, **2017**, 27, 1701138	15.6	76
32	Facile hydrothermal synthesis of BaZrxTi1−xO3 nanoparticles and their application to a lead-free nanocomposite generator. *RSC Advances*, **2017**, 7, 2851-2856	3.7	23
31	Piezoelectric energy harvesting from a PMN−PT single nanowire. *RSC Advances*, **2017**, 7, 260-265	3.7	48
30	Piezoelectric Sensors: Self-Powered Real-Time Arterial Pulse Monitoring Using Ultrathin Epidermal Piezoelectric Sensors (Adv. Mater. 37/2017). *Advanced Materials*, **2017**, 29,	24	3
29	Self-Powered Real-Time Arterial Pulse Monitoring Using Ultrathin Epidermal Piezoelectric Sensors. *Advanced Materials*, **2017**, 29, 1702308	24	308
28	A microcube-based hybrid piezocomposite as a flexible energy generator. *RSC Advances*, **2017**, 7, 32502-32507	3.7	52
27	Flexible highly-effective energy harvester via crystallographic and computational control of nanointerfacial morphotropic piezoelectric thin film. *Nano Research*, **2017**, 10, 437-455	10	74

26	Self-Powered Devices: Self-Powered Wireless Sensor Node Enabled by an Aerosol-Deposited PZT Flexible Energy Harvester (Adv. Energy Mater. 13/2016). *Advanced Energy Materials*, **2016**, 6,	21.8	3
25	Strain mapping in a nanoscale-triangular SiGe pattern by dark-field electron holography with medium magnification mode. *Microscopy (Oxford, England)*, **2016**, 65, 499-507	1.3	1
24	Stretchable piezoelectric nanocomposite generator. *Nano Convergence*, **2016**, 3, 12	9.2	71
23	Self-Powered Wireless Sensor Node Enabled by an Aerosol-Deposited PZT Flexible Energy Harvester. *Advanced Energy Materials*, **2016**, 6, 1600237	21.8	119
22	A flexible energy harvester based on a lead-free and piezoelectric BCTZ nanoparticle-polymer composite. *Nanoscale*, **2016**, 8, 17632-17638	7.7	78
21	A Reconfigurable Rectified Flexible Energy Harvester via Solid-State Single Crystal Grown PMN-PZT. *Advanced Energy Materials*, **2015**, 5, 1500051	21.8	95
20	Self-powered deep brain stimulation via a flexible PIMNT energy harvester. *Energy and Environmental Science*, **2015**, 8, 2677-2684	35.4	156
19	A hyper-stretchable elastic-composite energy harvester. *Advanced Materials*, **2015**, 27, 2866-75	24	281
18	Flexible piezoelectric thin-film energy harvesters and nanosensors for biomedical applications. *Advanced Healthcare Materials*, **2015**, 4, 646-58	10.1	187
17	Self-powered flexible inorganic electronic system. *Nano Energy*, **2015**, 14, 111-125	17.1	94
16	Performance Enhancement of Electronic and Energy Devices via Block Copolymer Self-Assembly. *Advanced Materials*, **2015**, 27, 3982-98	24	79
15	Highly-efficient, flexible piezoelectric PZT thin film nanogenerator on plastic substrates. *Advanced Materials*, **2014**, 26, 2514-20	24	538
14	Nanogenerators: Highly-Efficient, Flexible Piezoelectric PZT Thin Film Nanogenerator on Plastic Substrates (Adv. Mater. 16/2014). *Advanced Materials*, **2014**, 26, 2450-2450	24	9
13	Topographically-designed triboelectric nanogenerator via block copolymer self-assembly. *Nano Letters*, **2014**, 14, 7031-8	11.5	258
12	Self-powered fully-flexible light-emitting system enabled by flexible energy harvester. *Energy and Environmental Science*, **2014**, 7, 4035-4043	35.4	144
11	Self-powered cardiac pacemaker enabled by flexible single crystalline PMN-PT piezoelectric energy harvester. *Advanced Materials*, **2014**, 26, 4880-7	24	445
10	Electrical biomolecule detection using nanopatterned silicon via block copolymer lithography. *Small*, **2014**, 10, 337-43	11	42
9	Flexible Inorganic Piezoelectric Acoustic Nanosensors for Biomimetic Artificial Hair Cells. *Advanced Functional Materials*, **2014**, 24, 6914-6921	15.6	132

8	Sensors: Flexible Inorganic Piezoelectric Acoustic Nanosensors for Biomimetic Artificial Hair Cells (Adv. Funct. Mater. 44/2014). *Advanced Functional Materials*, **2014**, 24, 6898-6898	15.6	
7	Nanogenerators: Self-Powered Cardiac Pacemaker Enabled by Flexible Single Crystalline PMN-PT Piezoelectric Energy Harvester (Adv. Mater. 28/2014). *Advanced Materials*, **2014**, 26, 4754-4754	24	1
6	Large-Area and Flexible Lead-Free Nanocomposite Generator Using Alkaline Niobate Particles and Metal Nanorod Filler. *Advanced Functional Materials*, **2014**, 24, 2620-2629	15.6	176
5	Flexible and Large-Area Nanocomposite Generators Based on Lead Zirconate Titanate Particles and Carbon Nanotubes. *Advanced Energy Materials*, **2013**, 3, 1539-1544	21.8	184
4	Virus-directed design of a flexible BaTiO3 nanogenerator. *ACS Nano*, **2013**, 7, 11016-25	16.7	187
3	Nanocomposites: Flexible and Large-Area Nanocomposite Generators Based on Lead Zirconate Titanate Particles and Carbon Nanotubes (Adv. Energy Mater. 12/2013). *Advanced Energy Materials*, **2013**, 3, 1530-1530	21.8	5
2	All-Inorganic-State Fabric Lead-Free Piezoelectric Nanogenerators. *Physica Status Solidi (A) Applications and Materials Science*,	1.6	1
1	Flexible Self-Charging, Ultrafast, High-Power-Density Ceramic Capacitor System. *ACS Energy Letters*,1383-1391	20.2	12