

Chang Kyu Jeong

List of Publications by Citations

Source: <https://exaly.com/author-pdf/403805/chang-kyu-jeong-publications-by-citations.pdf>

Version: 2024-04-24

This document has been generated based on the publications and citations recorded by exaly.com. For the latest version of this publication list, visit the link given above.

The third column is the impact factor (IF) of the journal, and the fourth column is the number of citations of the article.

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	Highly-efficient, flexible piezoelectric PZT thin film nanogenerator on plastic substrates. <i>Advanced Materials</i> , 2014 , 26, 2514-20	24	538
78	Self-powered cardiac pacemaker enabled by flexible single crystalline PMN-PT piezoelectric energy harvester. <i>Advanced Materials</i> , 2014 , 26, 4880-7	24	445
77	Self-Powered Real-Time Arterial Pulse Monitoring Using Ultrathin Epidermal Piezoelectric Sensors. <i>Advanced Materials</i> , 2017 , 29, 1702308	24	308
76	A hyper-stretchable elastic-composite energy harvester. <i>Advanced Materials</i> , 2015 , 27, 2866-75	24	281
75	Topographically-designed triboelectric nanogenerator via block copolymer self-assembly. <i>Nano Letters</i> , 2014 , 14, 7031-8	11.5	258
74	Flexible piezoelectric thin-film energy harvesters and nanosensors for biomedical applications. <i>Advanced Healthcare Materials</i> , 2015 , 4, 646-58	10.1	187
73	Virus-directed design of a flexible BaTiO ₃ nanogenerator. <i>ACS Nano</i> , 2013 , 7, 11016-25	16.7	187
72	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
71	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
70	Self-powered deep brain stimulation via a flexible PIMNT energy harvester. <i>Energy and Environmental Science</i> , 2015 , 8, 2677-2684	35.4	156
69	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
68	Flexible Inorganic Piezoelectric Acoustic Nanosensors for Biomimetic Artificial Hair Cells. <i>Advanced Functional Materials</i> , 2014 , 24, 6914-6921	15.6	132
67	Flexible three-dimensional interconnected piezoelectric ceramic foam based composites for highly efficient concurrent mechanical and thermal energy harvesting. <i>Energy and Environmental Science</i> , 2018 , 11, 2046-2056	35.4	122
66	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
65	In Vivo Self-Powered Wireless Transmission Using Biocompatible Flexible Energy Harvesters. <i>Advanced Functional Materials</i> , 2017 , 27, 1700341	15.6	107
64	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
63	Lead-Free Perovskite Nanowire-Employed Piezopolymer for Highly Efficient Flexible Nanocomposite Energy Harvester. <i>Small</i> , 2018 , 14, e1704022	11	102

62	Performance-enhanced triboelectric nanogenerator enabled by wafer-scale nanogrates of multistep pattern downscaling. <i>Nano Energy</i> , 2017 , 35, 415-423	17.1	101
61	A Reconfigurable Rectified Flexible Energy Harvester via Solid-State Single Crystal Grown PMN/BZT. <i>Advanced Energy Materials</i> , 2015 , 5, 1500051	21.8	95
60	Integrated Triboelectric Nanogenerators in the Era of the Internet of Things. <i>Advanced Science</i> , 2019 , 6, 1802230	13.6	95
59	Self-powered flexible inorganic electronic system. <i>Nano Energy</i> , 2015 , 14, 111-125	17.1	94
58	Performance Enhancement of Electronic and Energy Devices via Block Copolymer Self-Assembly. <i>Advanced Materials</i> , 2015 , 27, 3982-98	24	79
57	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
56	Flexible vibrational energy harvesting devices using strain-engineered perovskite piezoelectric thin films. <i>Nano Energy</i> , 2019 , 55, 182-192	17.1	77
55	Plasmonic-Tuned Flash Cu Nanowelding with Ultrafast Photochemical-Reducing and Interlocking on Flexible Plastics. <i>Advanced Functional Materials</i> , 2017 , 27, 1701138	15.6	76
54	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
53	Stretchable piezoelectric nanocomposite generator. <i>Nano Convergence</i> , 2016 , 3, 12	9.2	71
52	Flexible energy harvesting polymer composites based on biofibril-templated 3-dimensional interconnected piezoceramics. <i>Nano Energy</i> , 2018 , 50, 35-42	17.1	66
51	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
50	Bioinspired elastic piezoelectric composites for high-performance mechanical energy harvesting. <i>Journal of Materials Chemistry A</i> , 2018 , 6, 14546-14552	13	65
49	Piezoelectric Energy Harvesting from Two-Dimensional Boron Nitride Nanoflakes. <i>ACS Applied Materials & Interfaces</i> , 2019 , 11, 37920-37926	9.5	58
48	Review on Electromechanical Coupling Properties of Biomaterials.. <i>ACS Applied Bio Materials</i> , 2018 , 1, 936-953	4.1	56
47	A microcube-based hybrid piezocomposite as a flexible energy generator. <i>RSC Advances</i> , 2017 , 7, 32502-32507	3.7	52
46	Self-powered flexible electronics beyond thermal limits. <i>Nano Energy</i> , 2019 , 56, 531-546	17.1	51
45	Biomimetic Porifera Skeletal Structure of Lead-Free Piezocomposite Energy Harvesters. <i>ACS Applied Materials & Interfaces</i> , 2018 , 10, 35539-35546	9.5	49

44	Piezoelectric energy harvesting from a PMNBT single nanowire. <i>RSC Advances</i> , 2017 , 7, 260-265	3.7	48
43	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
42	Electrical biomolecule detection using nanopatterned silicon via block copolymer lithography. <i>Small</i> , 2014 , 10, 337-43	11	42
41	Versatile Transfer of an Ultralong and Seamless Nanowire Array Crystallized at High Temperature for Use in High-Performance Flexible Devices. <i>ACS Nano</i> , 2017 , 11, 1520-1529	16.7	41
40	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
39	Biomimetic and flexible piezoelectric mobile acoustic sensors with multiresonant ultrathin structures for machine learning biometrics. <i>Science Advances</i> , 2021 , 7,	14.3	39
38	Triboelectric Nanogenerator versus Piezoelectric Generator at Low Frequency (. <i>IScience</i> , 2020 , 23, 101286	11.1	37
37	Progress in lead-free piezoelectric nanofiller materials and related composite nanogenerator devices. <i>Nanoscale Advances</i> , 2020 , 2, 3131-3149	5.1	31
36	Flash-Induced Stretchable Cu Conductor via Multiscale-Interfacial Couplings. <i>Advanced Science</i> , 2018 , 5, 1801146	13.6	31
35	Out-of-plane piezoresponse of monolayer MoS ₂ on plastic substrates enabled by highly uniform and layer-controllable CVD. <i>Applied Surface Science</i> , 2019 , 487, 1356-1361	6.7	24
34	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
33	Optogenetic brain neuromodulation by stray magnetic field via flash-enhanced magneto-mechano-triboelectric nanogenerator. <i>Nano Energy</i> , 2020 , 75, 104951	17.1	23
32	Xenon Flash Lamp-Induced Ultrafast Multilayer Graphene Growth. <i>Particle and Particle Systems Characterization</i> , 2017 , 34, 1600429	3.1	21
31	Dual-Structured Flexible Piezoelectric Film Energy Harvesters for Effectively Integrated Performance. <i>Sensors</i> , 2019 , 19,	3.8	17
30	Lead-Free Bi _{0.5} (Na _{0.78} K _{0.22})TiO ₃ Nanoparticle Filler/Elastomeric Composite Films for Paper-Based Flexible Power Generators. <i>Advanced Electronic Materials</i> , 2020 , 6, 1900950	6.4	17
29	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
28	Inverse size-dependence of piezoelectricity in single BaTiO ₃ nanoparticles. <i>Nano Energy</i> , 2019 , 58, 78-84	17.1	17
27	Selective Phase Control of Dopant-Free Potassium Sodium Niobate Perovskites in Solution. <i>Inorganic Chemistry</i> , 2020 , 59, 3042-3052	5.1	16

26	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
25	Hydrogel Ionic Diodes toward Harvesting Ultralow-Frequency Mechanical Energy. <i>Advanced Materials</i> , 2021 , 33, e2103056	24	13
24	(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
23	Toward bioimplantable and biocompatible flexible energy harvesters using piezoelectric ceramic materials. <i>MRS Communications</i> , 2020 , 10, 365-378	2.7	12
22	Flexible Self-Charging, Ultrafast, High-Power-Density Ceramic Capacitor System. <i>ACS Energy Letters</i> , 2021 , 6, 1383-1391	13.1	12
21	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
20	Triboelectrification of nanocomposites using identical polymer matrixes with different concentrations of nanoparticle fillers. <i>Journal of Materials Chemistry A</i> , 2021 , 9, 8984-8990	13	8
19	Triboelectrification: Backflow and Stuck Charges Are Key. <i>ACS Energy Letters</i> , 2021 , 6, 2792-2799	20.1	7
18	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
17	Nanointerfacial Layer Effect on Dielectric and Piezoelectric Responses in Chemical Solution-Derived Lead-Free Alkaline Niobate-Based Thin Films. <i>ACS Applied Materials & Interfaces</i> , 2021 , 13, 22047-22058	9.5	5
16	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
15	Flash-welded ultraflat silver nanowire network for flexible organic light-emitting diode and triboelectric tactile sensor. <i>APL Materials</i> , 2021 , 9, 061112	5.7	4
14	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
13	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
12	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
11	Piezoelectric Sensors: Self-Powered Real-Time Arterial Pulse Monitoring Using Ultrathin Epidermal Piezoelectric Sensors (Adv. Mater. 37/2017). <i>Advanced Materials</i> , 2017 , 29,	24	3
10	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
9	BNNT-ZnO QDs nanocomposites for improving piezoelectric nanogenerator and piezoelectric properties of boron nitride nanotube. <i>Nano Energy</i> , 2022 , 93, 106886	17.1	3

8	Strain mapping in a nanoscale-triangular SiGe pattern by dark-field electron holography with medium magnification mode. <i>Microscopy (Oxford, England)</i> , 2016 , 65, 499-507	1.3	1
7	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
6	All-Inorganic-State Fabric Lead-Free Piezoelectric Nanogenerators. <i>Physica Status Solidi (A) Applications and Materials Science</i> ,	1.6	1
5	Ferroelectric Polymer Nanofibers Reminiscent of Morphotropic Phase Boundary Behavior for Improved Piezoelectric Energy Harvesting.. <i>Small</i> , 2022 , e2104472	11	1
4	Ultrahigh augmentation of flexible composite-based piezoelectric energy harvesting efficiency via polymer-impregnated nanoparticles network within 3D cellulose scaffold. <i>Composites Part B: Engineering</i> , 2022 , 236, 109813	10	1
3	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
2	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	
1	Ferroelectric Polymer Nanofibers Reminiscent of Morphotropic Phase Boundary Behavior for Improved Piezoelectric Energy Harvesting (Small 15/2022). <i>Small</i> , 2022 , 18, 2270072	11	