

Kwi-Il Park

List of Publications by Citations

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|-------------------|-------------------------|-----------------|----------------|
| 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 | Piezoelectric BaTiO ₃ thin film nanogenerator on plastic substrates. <i>Nano Letters</i> , 2010 , 10, 4939-43 | 11.5 | 597 |
| 68 | Highly-efficient, flexible piezoelectric PZT thin film nanogenerator on plastic substrates. <i>Advanced Materials</i> , 2014 , 26, 2514-20 | 24 | 538 |
| 67 | Flexible nanocomposite generator made of BaTiO ₃ nanoparticles and graphitic carbons. <i>Advanced Materials</i> , 2012 , 24, 2999-3004, 2937 | 24 | 511 |
| 66 | Self-powered cardiac pacemaker enabled by flexible single crystalline PMN-PT piezoelectric energy harvester. <i>Advanced Materials</i> , 2014 , 26, 4880-7 | 24 | 445 |
| 65 | Bendable inorganic thin-film battery for fully flexible electronic systems. <i>Nano Letters</i> , 2012 , 12, 4810-6 | 11.5 | 431 |
| 64 | 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 |
| 63 | Virus-directed design of a flexible BaTiO ₃ nanogenerator. <i>ACS Nano</i> , 2013 , 7, 11016-25 | 16.7 | 187 |
| 62 | 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 |
| 61 | 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 |
| 60 | 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 |
| 59 | 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 |
| 58 | 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 |
| 57 | Lead-Free Perovskite Nanowire-Employed Piezopolymer for Highly Efficient Flexible Nanocomposite Energy Harvester. <i>Small</i> , 2018 , 14, e1704022 | 11 | 102 |
| 56 | 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 |
| 55 | 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 |
| 54 | Lead-free BaTiO ₃ nanowires-based flexible nanocomposite generator. <i>Nanoscale</i> , 2014 , 6, 8962-8 | 7.7 | 88 |
| 53 | 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 |

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|----|---|------|----|
| 52 | 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 |
| 51 | 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 |
| 50 | Stretchable piezoelectric nanocomposite generator. <i>Nano Convergence</i> , 2016 , 3, 12 | 9.2 | 71 |
| 49 | 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 |
| 48 | Piezoelectric Energy Harvesting from Two-Dimensional Boron Nitride Nanoflakes. <i>ACS Applied Materials & Interfaces</i> , 2019 , 11, 37920-37926 | 9.5 | 58 |
| 47 | Self-powered flexible electronics beyond thermal limits. <i>Nano Energy</i> , 2019 , 56, 531-546 | 17.1 | 51 |
| 46 | Piezoelectric energy harvesting from a PMNBT single nanowire. <i>RSC Advances</i> , 2017 , 7, 260-265 | 3.7 | 48 |
| 45 | 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 |
| 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 | 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 |
| 42 | 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 |
| 41 | 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 |
| 40 | Facile hydrothermal synthesis of BaZr _x Ti _{1-x} O ₃ nanoparticles and their application to a lead-free nanocomposite generator. <i>RSC Advances</i> , 2017 , 7, 2851-2856 | 3.7 | 23 |
| 39 | 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 |
| 38 | 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 |
| 37 | Dual-Structured Flexible Piezoelectric Film Energy Harvesters for Effectively Integrated Performance. <i>Sensors</i> , 2019 , 19, | 3.8 | 17 |
| 36 | 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 |
| 35 | Inverse size-dependence of piezoelectricity in single BaTiO ₃ nanoparticles. <i>Nano Energy</i> , 2019 , 58, 78-84 | 17.1 | 17 |

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| 34 | Selective Phase Control of Dopant-Free Potassium Sodium Niobate Perovskites in Solution. <i>Inorganic Chemistry</i> , 2020 , 59, 3042-3052 | 5.1 | 16 |
| 33 | 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 |
| 32 | (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 |
| 31 | 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 |
| 30 | 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 |
| 29 | 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 |
| 28 | HIGH TEMPERATURE MECHANICAL PROPERTIES OF CVD-SiC THIN FILMS. <i>Modern Physics Letters B</i> , 2009 , 23, 3877-3886 | 1.6 | 9 |
| 27 | Piezoelectricity of picosecond laser-synthesized perovskite BaTiO ₃ nanoparticles. <i>Applied Surface Science</i> , 2020 , 511, 145614 | 6.7 | 8 |
| 26 | Lead-free BaTiO ₃ Nanowire Arrays-based Piezoelectric Energy Harvester. <i>MRS Advances</i> , 2017 , 2, 3415-3420 | 4.7 | 7 |
| 25 | 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 |
| 24 | 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 |
| 23 | 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 |
| 22 | 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 |
| 21 | 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 |
| 20 | 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 |
| 19 | 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 |
| 18 | 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 |
| 17 | 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 |

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| 16 | 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 |
| 15 | 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 |
| 14 | Flexible Energy Harvester Made of Organic-Inorganic Hybrid Piezoelectric Nanocomposite. <i>Korean Journal of Materials Research</i> , 2019 , 29, 371-377 | 0.2 | 3 |
| 13 | 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 |
| 12 | 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 |
| 11 | Exceeding 50 mW RMS-Output Magneto-Mechano-Electric Generator by Hybridizing Piezoelectric and Electromagnetic Induction Effects. <i>Advanced Functional Materials</i> , 2112028 | 15.6 | 2 |
| 10 | 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 |
| 9 | 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 |
| 8 | 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 |
| 7 | 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 |
| 6 | Ferroelectric Polymer Nanofibers Reminiscent of Morphotropic Phase Boundary Behavior for Improved Piezoelectric Energy Harvesting.. <i>Small</i> , 2022 , e2104472 | 11 | 1 |
| 5 | 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 |
| 4 | 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 |
| 3 | 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 | |
| 2 | CO ₂ 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 | |
| 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 | |