Jonghwa Park

List of Publications by Citations

33 papers	3,136 citations	21 h-index	33 g-index
33 ext. papers	3,914 ext. citations	13.1 avg, IF	5.42 L-index

#	Paper	IF	Citations
33	Giant tunneling piezoresistance of composite elastomers with interlocked microdome arrays for ultrasensitive and multimodal electronic skins. *ACS Nano*, **2014**, 8, 4689-97	16.7	561
32	Fingertip skin-inspired microstructured ferroelectric skins discriminate static/dynamic pressure and temperature stimuli. *Science Advances*, **2015**, 1, e1500661	14.3	485
31	Tactile-direction-sensitive and stretchable electronic skins based on human-skin-inspired interlocked microstructures. *ACS Nano*, **2014**, 8, 12020-9	16.7	398
30	Bioinspired Interlocked and Hierarchical Design of ZnO Nanowire Arrays for Static and Dynamic Pressure-Sensitive Electronic Skins. *Advanced Functional Materials*, **2015**, 25, 2841-2849	15.6	244
29	Large-Area Cross-Aligned Silver Nanowire Electrodes for Flexible, Transparent, and Force-Sensitive Mechanochromic Touch Screens. *ACS Nano*, **2017**, 11, 4346-4357	16.7	213
28	Flexible Ferroelectric Sensors with Ultrahigh Pressure Sensitivity and Linear Response over Exceptionally Broad Pressure Range. *ACS Nano*, **2018**, 12, 4045-4054	16.7	212
27	Triboelectric generators and sensors for self-powered wearable electronics. *ACS Nano*, **2015**, 9, 3421-7	16.7	187
26	Mimicking Human and Biological Skins for Multifunctional Skin Electronics. *Advanced Functional Materials*, **2020**, 30, 1904523	15.6	126
25	Transparent and conductive nanomembranes with orthogonal silver nanowire arrays for skin-attachable loudspeakers and microphones. *Science Advances*, **2018**, 4, eaas8772	14.3	98
24	Tailoring force sensitivity and selectivity by microstructure engineering of multidirectional electronic skins. *NPG Asia Materials*, **2018**, 10, 163-176	10.3	95
23	Micro/nanostructured surfaces for self-powered and multifunctional electronic skins. *Journal of Materials Chemistry B*, **2016**, 4, 2999-3018	7.3	90
22	A Hierarchical Nanoparticle-in-Micropore Architecture for Enhanced Mechanosensitivity and Stretchability in Mechanochromic Electronic Skins. *Advanced Materials*, **2019**, 31, e1808148	24	75
21	Bioinspired Gradient Conductivity and Stiffness for Ultrasensitive Electronic Skins. *ACS Nano*, **2021**, 15, 1795-1804	16.7	38
20	Piezoresistive Tactile Sensor Discriminating Multidirectional Forces. *Sensors*, **2015**, 15, 25463-73	3.8	37
19	Directed self-assembly of rhombic carbon nanotube nanomesh films for transparent and stretchable electrodes. *Journal of Materials Chemistry C*, **2015**, 3, 2319-2325	7.1	33
18	Ferroelectric Multilayer Nanocomposites with Polarization and Stress Concentration Structures for Enhanced Triboelectric Performances. *ACS Nano*, **2020**, 14, 7101-7110	16.7	32
17	Molecular structure engineering of dielectric fluorinated polymers for enhanced performances of triboelectric nanogenerators. *Nano Energy*, **2018**, 53, 37-45	17.1	29

List of Publications

16	Particle-on-Film Gap Plasmons on Antireflective ZnO Nanocone Arrays for Molecular-Level Surface-Enhanced Raman Scattering Sensors. *ACS Applied Materials & Interfaces*, **2015**, 7, 26421-9	9.5	27
15	A Triple-Mode Flexible E-Skin Sensor Interface for Multi-Purpose Wearable Applications. *Sensors*, **2017**, 18,	3.8	24
14	InGaAs Nanomembrane/Si van der Waals Heterojunction Photodiodes with Broadband and High Photoresponsivity. *ACS Applied Materials & Interfaces*, **2016**, 8, 26105-26111	9.5	23
13	Ultrasensitive Piezoresistive Pressure Sensors Based on Interlocked Micropillar Arrays. *BioNanoScience*, **2014**, 4, 349-355	3.4	21
12	Transfer Printing of Electronic Functions on Arbitrary Complex Surfaces. *ACS Nano*, **2020**, 14, 12-20	16.7	19
11	A Fully Biodegradable Ferroelectric Skin Sensor from Edible Porcine Skin Gelatine. *Advanced Science* , **2021**, 8, 2005010	13.6	15
10	MXene-enhanced phase crystallization in ferroelectric porous composites for highly-sensitive dynamic force sensors. *Nano Energy*, **2021**, 89, 106409	17.1	13
9	Interfacial polarization-induced high-k polymer dielectric film for high-performance triboelectric devices. *Nano Energy*, **2021**, 82, 105697	17.1	10
8	Ultrasensitive Multimodal Tactile Sensors with Skin-Inspired Microstructures through Localized Ferroelectric Polarization.. *Advanced Science*, **2022**, e2105423	13.6	8
7	Binary Spiky/Spherical Nanoparticle Films with Hierarchical Micro/Nanostructures for High-Performance Flexible Pressure Sensors. *ACS Applied Materials & Interfaces*, **2020**, 12, 58403-58411	9.5	8
6	Frequency-selective acoustic and haptic smart skin for dual-mode dynamic/static human-machine interface.. *Science Advances*, **2022**, 8, eabj9220	14.3	5
5	Electronic Skin: Bioinspired Interlocked and Hierarchical Design of ZnO Nanowire Arrays for Static and Dynamic Pressure-Sensitive Electronic Skins (Adv. Funct. Mater. 19/2015). *Advanced Functional Materials*, **2015**, 25, 2840-2840	15.6	4
4	Flexible Pyroresistive Graphene Composites for Artificial Thermosensation Differentiating Materials and Solvent Types.. *ACS Nano*, **2022**,	16.7	2
3	Ultra-Stretchable yet Tough, Healable, and Biodegradable Triboelectric Devices with Microstructured and Ionically Crosslinked Biogel. *Nano Energy*, **2022**, 107438	17.1	2
2	Users Cognitive and Affective Response to the Risk to Privacy from a Smart Speaker. *International Journal of Human-Computer Interaction*, **2021**, 37, 759-771	3.6	1
1	Nanostructured Conductors for Flexible Electronics395-412		1