

# Kyung-In Jang

## List of Publications by Citations

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55  
papers

6,012  
citations

30  
h-index

62  
g-index

62  
ext. papers

7,118  
ext. citations

15  
avg, IF

4.96  
L-index

#	Paper	IF	Citations
55	A soft, wearable microfluidic device for the capture, storage, and colorimetric sensing of sweat. <i>Science Translational Medicine</i> , <b>2016</b> , 8, 366ra165	17.5	665
54	Materials science. Assembly of micro/nanomaterials into complex, three-dimensional architectures by compressive buckling. <i>Science</i> , <b>2015</b> , 347, 154-9	33.3	587
53	Soft, stretchable, fully implantable miniaturized optoelectronic systems for wireless optogenetics. <i>Nature Biotechnology</i> , <b>2015</b> , 33, 1280-1286	44.5	510
52	3D multifunctional integumentary membranes for spatiotemporal cardiac measurements and stimulation across the entire epicardium. <i>Nature Communications</i> , <b>2014</b> , 5, 3329	17.4	384
51	Wireless Optofluidic Systems for Programmable In Vivo Pharmacology and Optogenetics. <i>Cell</i> , <b>2015</b> , 162, 662-74	56.2	326
50	Binodal, wireless epidermal electronic systems with in-sensor analytics for neonatal intensive care. <i>Science</i> , <b>2019</b> , 363,	33.3	316
49	Soft network composite materials with deterministic and bio-inspired designs. <i>Nature Communications</i> , <b>2015</b> , 6, 6566	17.4	289
48	Battery-free, stretchable optoelectronic systems for wireless optical characterization of the skin. <i>Science Advances</i> , <b>2016</b> , 2, e1600418	14.3	266
47	Rugged and breathable forms of stretchable electronics with adherent composite substrates for transcutaneous monitoring. <i>Nature Communications</i> , <b>2014</b> , 5, 4779	17.4	245
46	Self-assembled three dimensional network designs for soft electronics. <i>Nature Communications</i> , <b>2017</b> , 8, 15894	17.4	238
45	Epidermal mechano-acoustic sensing electronics for cardiovascular diagnostics and human-machine interfaces. <i>Science Advances</i> , <b>2016</b> , 2, e1601185	14.3	220
44	Epidermal photonic devices for quantitative imaging of temperature and thermal transport characteristics of the skin. <i>Nature Communications</i> , <b>2014</b> , 5, 4938	17.4	185
43	Miniaturized Battery-Free Wireless Systems for Wearable Pulse Oximetry. <i>Advanced Functional Materials</i> , <b>2017</b> , 27, 1604373	15.6	182
42	Multifunctional skin-like electronics for quantitative, clinical monitoring of cutaneous wound healing. <i>Advanced Healthcare Materials</i> , <b>2014</b> , 3, 1597-607	10.1	175
41	A nonlinear mechanics model of bio-inspired hierarchical lattice materials consisting of horseshoe microstructures. <i>Journal of the Mechanics and Physics of Solids</i> , <b>2016</b> , 90, 179-202	5	155
40	Miniaturized Flexible Electronic Systems with Wireless Power and Near-Field Communication Capabilities. <i>Advanced Functional Materials</i> , <b>2015</b> , 25, 4761-4767	15.6	114
39	Soft, thin skin-mounted power management systems and their use in wireless thermography. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , <b>2016</b> , 113, 6131-6	11.5	108

38	Soft Core/Shell Packages for Stretchable Electronics. <i>Advanced Functional Materials</i> , <b>2015</b> , 25, 3698-3704	5.6	98
37	Stretchable multichannel antennas in soft wireless optoelectronic implants for optogenetics. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , <b>2016</b> , 113, E8169-E8177	11.5	84
36	Design of Strain-Limiting Substrate Materials for Stretchable and Flexible Electronics. <i>Advanced Functional Materials</i> , <b>2016</b> , 26, 5345-5351	15.6	75
35	Miniaturized, Battery-Free Optofluidic Systems with Potential for Wireless Pharmacology and Optogenetics. <i>Small</i> , <b>2018</b> , 14, 1702-1709	11	66
34	Biological lipid membranes for on-demand, wireless drug delivery from thin, bioresorbable electronic implants. <i>NPG Asia Materials</i> , <b>2015</b> , 7,	10.3	61
33	Epidermal radio frequency electronics for wireless power transfer. <i>Microsystems and Nanoengineering</i> , <b>2016</b> , 2, 16052	7.7	55
32	Chemical Sensing Systems that Utilize Soft Electronics on Thin Elastomeric Substrates with Open Cellular Designs. <i>Advanced Functional Materials</i> , <b>2017</b> , 9, 1605-1612	15.6	51
31	Wireless optofluidic brain probes for chronic neuropharmacology and photostimulation. <i>Nature Biomedical Engineering</i> , <b>2019</b> , 3, 655-669	19	50
30	The equivalent medium of cellular substrate under large stretching, with applications to stretchable electronics. <i>Journal of the Mechanics and Physics of Solids</i> , <b>2018</b> , 120, 199-207	5	45
29	Preparation and implementation of optofluidic neural probes for in vivo wireless pharmacology and optogenetics. <i>Nature Protocols</i> , <b>2017</b> , 12, 219-237	18.8	44
28	Ferromagnetic, folded electrode composite as a soft interface to the skin for long-term electrophysiological recording. <i>Advanced Functional Materials</i> , <b>2016</b> , 26, 7281-7290	15.6	40
27	Materials and Wireless Microfluidic Systems for Electronics Capable of Chemical Dissolution on Demand. <i>Advanced Functional Materials</i> , <b>2015</b> , 25, 1338-1343	15.6	34
26	Epidermal electronics for electromyography: An application to swallowing therapy. <i>Medical Engineering and Physics</i> , <b>2016</b> , 38, 807-12	2.4	31
25	Ultra-thin films with highly absorbent porous media fine-tunable for coloration and enhanced color purity. <i>Nanoscale</i> , <b>2017</b> , 9, 2986-2991	7.7	30
24	Stretchable and suturable fibre sensors for wireless monitoring of connective tissue strain. <i>Nature Electronics</i> , <b>2021</b> , 4, 291-301	28.4	30
23	Dry Transient Electronic Systems by Use of Materials that Sublime. <i>Advanced Functional Materials</i> , <b>2017</b> , 27, 1606008	15.6	27
22	Mechanically Guided Post-Assembly of 3D Electronic Systems. <i>Advanced Functional Materials</i> , <b>2018</b> , 28, 1803149	15.6	26
21	Three-Dimensional Silicon Electronic Systems Fabricated by Compressive Buckling Process. <i>ACS Nano</i> , <b>2018</b> , 12, 4164-4171	16.7	23

20	Continuous monitoring of deep-tissue haemodynamics with stretchable ultrasonic phased arrays. <i>Nature Biomedical Engineering</i> , <b>2021</b> , 5, 749-758	19	23
19	Ultrastretchable Helical Conductive Fibers Using Percolated Ag Nanoparticle Networks Encapsulated by Elastic Polymers with High Durability in Omnidirectional Deformations for Wearable Electronics. <i>Advanced Functional Materials</i> , <b>2020</b> , 30, 1910026	15.6	22
18	Outdoor-Useable, Wireless/Battery-Free Patch-Type Tissue Oximeter with Radiative Cooling. <i>Advanced Science</i> , <b>2021</b> , 8, 2004885	13.6	21
17	Wrinkling of a stiff thin film bonded to a pre-strained, compliant substrate with finite thickness. <i>Proceedings of the Royal Society A: Mathematical, Physical and Engineering Sciences</i> , <b>2016</b> , 472, 20160339 <sup>2.4</sup>		20
16	Thin Metallic Heat Sink for Interfacial Thermal Management in Biointegrated Optoelectronic Devices. <i>Advanced Materials Technologies</i> , <b>2018</b> , 3, 1800159	6.8	17
15	Self-Bondable and Stretchable Conductive Composite Fibers with Spatially Controlled Percolated Ag Nanoparticle Networks: Novel Integration Strategy for Wearable Electronics. <i>Advanced Functional Materials</i> , <b>2020</b> , 30, 2005447	15.6	15
14	Electrochemical oxidation assisted micromachining of glassy carbon substrate. <i>International Journal of Precision Engineering and Manufacturing</i> , <b>2015</b> , 16, 419-422	1.7	11
13	Stretchable Electronics: Epidermal Electronics with Advanced Capabilities in Near-Field Communication (Small 8/2015). <i>Small</i> , <b>2015</b> , 11, 905-905	11	8
12	Ultrasensitive and Stretchable Conductive Fibers Using Percolated Pd Nanoparticle Networks for Multisensing Wearable Electronics: Crack-Based Strain and H Sensors. <i>ACS Applied Materials &amp; Interfaces</i> , <b>2020</b> , 12, 45243-45253	9.5	8
11	Epidermal Systems: Soft Core/Shell Packages for Stretchable Electronics (Adv. Funct. Mater. 24/2015). <i>Advanced Functional Materials</i> , <b>2015</b> , 25, 3697-3697	15.6	5
10	Rapidly-customizable, scalable 3D-printed wireless optogenetic probes for versatile applications in neuroscience. <i>Advanced Functional Materials</i> , <b>2020</b> , 30, 2004285	15.6	5
9	Instant, multiscale dry transfer printing by atomic diffusion control at heterogeneous interfaces. <i>Science Advances</i> , <b>2021</b> , 7,	14.3	4
8	Oximetry: Miniaturized Battery-Free Wireless Systems for Wearable Pulse Oximetry (Adv. Funct. Mater. 1/2017). <i>Advanced Functional Materials</i> , <b>2017</b> , 27,	15.6	3
7	Self-Cooling Gallium-Based Transformative Electronics with a Radiative Cooler for Reliable Stiffness Tuning in Outdoor Use. <i>Advanced Science</i> , 2202549	13.6	3
6	Epidermal Electronics: Miniaturized Flexible Electronic Systems with Wireless Power and Near-Field Communication Capabilities (Adv. Funct. Mater. 30/2015). <i>Advanced Functional Materials</i> , <b>2015</b> , 25, 4919-4919 <sup>15.6</sup>		2
5	Electronic Structures: Mechanically Guided Post-Assembly of 3D Electronic Systems (Adv. Funct. Mater. 48/2018). <i>Advanced Functional Materials</i> , <b>2018</b> , 28, 1870344	15.6	1
4	Closed-Loop Neuromodulation for Parkinson's Disease: Current State and Future Directions. <i>IEEE Transactions on Molecular, Biological, and Multi-Scale Communications</i> , <b>2020</b> , 1-1	2.3	0
3	Electrodes: Ferromagnetic, Folded Electrode Composite as a Soft Interface to the Skin for Long-Term Electrophysiological Recording (Adv. Funct. Mater. 40/2016). <i>Advanced Functional Materials</i> , <b>2016</b> , 26, 7280-7280	15.6	

- 2 Optogenetic Probes: Rapidly Customizable, Scalable 3D-Printed Wireless Optogenetic Probes for Versatile Applications in Neuroscience (Adv. Funct. Mater. 46/2020). *Advanced Functional Materials*, **2020**, 30, 2070305 15.6
- 1 Cerebral Oximetry: Ultrastretchable Helical Conductive Fibers Using Percolated Ag Nanoparticle Networks Encapsulated by Elastic Polymers with High Durability in Omnidirectional Deformations for Wearable Electronics (Adv. Funct. Mater. 29/2020). *Advanced Functional Materials*, **2020**, 30, 2070198 15.6