

# Kyung-in Jang

## List of Publications by Year in descending order

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55  
papers

8,792  
citations

92079

37  
h-index

139103

58  
g-index

70  
all docs

70  
docs citations

70  
times ranked

11965  
citing authors

#	ARTICLE	IF	CITATIONS
1	Highly Deformable Double-Sided Neural Probe with All-in-One Electrode System for Real-Time In Vivo Detection of Dopamine for Parkinson's Disease. <i>Advanced Functional Materials</i> , 2024, 34, .	16.5	2
2	Water-based direct photopatterning of stretchable PEDOT:PSS using amphiphilic block copolymers. <i>Npj Flexible Electronics</i> , 2024, 8, .	11.2	0
3	Fabric-based lamina emergent MXene-based electrode for electrophysiological monitoring. <i>Nature Communications</i> , 2024, 15, .	13.2	0
4	Strain-Insensitive Stretchable Fiber Conductors Based on Highly Conductive Buckled Shells for Wearable Electronics. <i>ACS Applied Materials &amp; Interfaces</i> , 2023, 15, 18281-18289.	8.3	9
5	Self-Cooling Gallium-Based Transformative Electronics with a Radiative Cooler for Reliable Stiffness Tuning in Outdoor Use. <i>Advanced Science</i> , 2022, 9, .	12.4	23
6	Outdoor-Useable, Wireless/Battery-Free Patch-Type Tissue Oximeter with Radiative Cooling. <i>Advanced Science</i> , 2021, 8, 2004885.	12.4	61
7	Stretchable and suturable fibre sensors for wireless monitoring of connective tissue strain. <i>Nature Electronics</i> , 2021, 4, 291-301.	18.9	132
8	Instant, multiscale dry transfer printing by atomic diffusion control at heterogeneous interfaces. <i>Science Advances</i> , 2021, 7, .	10.9	28
9	Continuous monitoring of deep-tissue haemodynamics with stretchable ultrasonic phased arrays. <i>Nature Biomedical Engineering</i> , 2021, 5, 749-758.	22.4	133
10	Closed-Loop Neuromodulation for Parkinson's Disease: Current State and Future Directions. <i>IEEE Transactions on Molecular, Biological, and Multi-Scale Communications</i> , 2021, 7, 209-223.	2.3	11
11	Rapidly Customizable, Scalable 3D-Printed Wireless Optogenetic Probes for Versatile Applications in Neuroscience. <i>Advanced Functional Materials</i> , 2020, 30, 2004285.	16.5	20
12	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> , 2020, 30, 2005447.	16.5	33
13	Ultrasensitive and Stretchable Conductive Fibers Using Percolated Pd Nanoparticle Networks for Multisensing Wearable Electronics: Crack-Based Strain and $H_2$ Sensors. <i>ACS Applied Materials &amp; Interfaces</i> , 2020, 12, 45243-45253.	8.3	17
14	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> , 2020, 30, 1910026.	16.5	51
15	Wireless optofluidic brain probes for chronic neuropharmacology and photostimulation. <i>Nature Biomedical Engineering</i> , 2019, 3, 655-669.	22.4	91
16	Binodal, wireless epidermal electronic systems with in-sensor analytics for neonatal intensive care. <i>Science</i> , 2019, 363, .	20.9	561
17	Three-Dimensional Silicon Electronic Systems Fabricated by Compressive Buckling Process. <i>ACS Nano</i> , 2018, 12, 4164-4171.	15.3	40
18	Miniaturized, Battery-Free Optofluidic Systems with Potential for Wireless Pharmacology and Optogenetics. <i>Small</i> , 2018, 14, 1702479.	11.2	96

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19	The equivalent medium of cellular substrate under large stretching, with applications to stretchable electronics. <i>Journal of the Mechanics and Physics of Solids</i> , 2018, 120, 199-207.	4.9	67
20	Mechanically Guided Post-Assembly of 3D Electronic Systems. <i>Advanced Functional Materials</i> , 2018, 28, 1803149.	16.5	43
21	Thin Metallic Heat Sink for Interfacial Thermal Management in Biointegrated Optoelectronic Devices. <i>Advanced Materials Technologies</i> , 2018, 3, 1800159.	6.2	27
22	Chemical Sensing Systems that Utilize Soft Electronics on Thin Elastomeric Substrates with Open Cellular Designs. <i>Advanced Functional Materials</i> , 2017, 27, 1605476.	16.5	70
23	Dry Transient Electronic Systems by Use of Materials that Sublime. <i>Advanced Functional Materials</i> , 2017, 27, 1606008.	16.5	35
24	Self-assembled three dimensional network designs for soft electronics. <i>Nature Communications</i> , 2017, 8, 15894.	13.2	350
25	Ultra-thin films with highly absorbent porous media fine-tunable for coloration and enhanced color purity. <i>Nanoscale</i> , 2017, 9, 2986-2991.	5.8	42
26	Preparation and implementation of optofluidic neural probes for in vivo wireless pharmacology and optogenetics. <i>Nature Protocols</i> , 2017, 12, 219-237.	12.5	66
27	Fabrication of Ultra-thin Color Films with Highly Absorbing Media Using Oblique Angle Deposition. <i>Journal of Visualized Experiments</i> , 2017, , .	0.3	0
28	Miniaturized Battery-Free Wireless Systems for Wearable Pulse Oximetry. <i>Advanced Functional Materials</i> , 2017, 27, 1604373.	16.5	261
29	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> , 2016, 113, E8169-E8177.	7.6	114
30	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> , 2016, 113, 6131-6136.	7.6	143
31	A nonlinear mechanics model of bio-inspired hierarchical lattice materials consisting of horseshoe microstructures. <i>Journal of the Mechanics and Physics of Solids</i> , 2016, 90, 179-202.	4.9	239
32	Ferromagnetic, Folded Electrode Composite as a Soft Interface to the Skin for Long-Term Electrophysiological Recording. <i>Advanced Functional Materials</i> , 2016, 26, 7281-7290.	16.5	54
33	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> , 2016, 472, 20160339.	2.1	28
34	A soft, wearable microfluidic device for the capture, storage, and colorimetric sensing of sweat. <i>Science Translational Medicine</i> , 2016, 8, 366ra165.	13.4	1,000
35	Epidermal mechano-acoustic sensing electronics for cardiovascular diagnostics and human-machine interfaces. <i>Science Advances</i> , 2016, 2, e1601185.	10.9	320
36	Epidermal radio frequency electronics for wireless power transfer. <i>Microsystems and Nanoengineering</i> , 2016, 2, 16052.	7.2	74

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37	Battery-free, stretchable optoelectronic systems for wireless optical characterization of the skin. <i>Science Advances</i> , 2016, 2, e1600418.	10.9	346
38	Design of Strain-Limiting Substrate Materials for Stretchable and Flexible Electronics. <i>Advanced Functional Materials</i> , 2016, 26, 5345-5351.	16.5	95
39	Epidermal electronics for electromyography: An application to swallowing therapy. <i>Medical Engineering and Physics</i> , 2016, 38, 807-812.	1.8	45
40	Miniaturized Flexible Electronic Systems with Wireless Power and Near-Field Communication Capabilities. <i>Advanced Functional Materials</i> , 2015, 25, 4761-4767.	16.5	153
41	Soft Core/Shell Packages for Stretchable Electronics. <i>Advanced Functional Materials</i> , 2015, 25, 3698-3704.	16.5	119
42	Wireless Optofluidic Systems for Programmable In Vivo Pharmacology and Optogenetics. <i>Cell</i> , 2015, 162, 662-674.	27.8	431
43	Soft network composite materials with deterministic and bio-inspired designs. <i>Nature Communications</i> , 2015, 6, 6566.	13.2	412
44	Electrochemical oxidation assisted micromachining of glassy carbon substrate. <i>International Journal of Precision Engineering and Manufacturing</i> , 2015, 16, 419-422.	2.3	12
45	Biological lipid membranes for on-demand, wireless drug delivery from thin, bioresorbable electronic implants. <i>NPG Asia Materials</i> , 2015, 7, e227-e227.	8.3	84
46	Soft, stretchable, fully implantable miniaturized optoelectronic systems for wireless optogenetics. <i>Nature Biotechnology</i> , 2015, 33, 1280-1286.	20.8	680
47	Materials and Wireless Microfluidic Systems for Electronics Capable of Chemical Dissolution on Demand. <i>Advanced Functional Materials</i> , 2015, 25, 1338-1343.	16.5	43
48	Multifunctional Skin-Like Electronics for Quantitative, Clinical Monitoring of Cutaneous Wound Healing. <i>Advanced Healthcare Materials</i> , 2014, 3, 1597-1607.	8.5	237
49	3D multifunctional integumentary membranes for spatiotemporal cardiac measurements and stimulation across the entire epicardium. <i>Nature Communications</i> , 2014, 5, 3329.	13.2	508
50	Rugged and breathable forms of stretchable electronics with adherent composite substrates for transcutaneous monitoring. <i>Nature Communications</i> , 2014, 5, 4779.	13.2	325
51	Epidermal photonic devices for quantitative imaging of temperature and thermal transport characteristics of the skin. <i>Nature Communications</i> , 2014, 5, 4938.	13.2	237
52	Heterogeneous Material Integration via Autogenous Transfer Printing Using a Graphene Oxide Release Layer. <i>ACS Applied Nano Materials</i> , 0, , .	5.2	0
53	Wearable electrochemical sensors for real-time monitoring in diabetes mellitus and associated complications. , 0, 4, .		1
54	Bioelectronic Implantable Devices for Physiological Signal Recording and Closed-Loop Neuromodulation. <i>Advanced Functional Materials</i> , 0, , .	16.5	0

#	ARTICLE	IF	CITATIONS
55	Diabetes Management in Transition: Market Insights and Technological Advancements in CGM and Insulin Delivery. Advanced Sensor Research, 0, , .	2.0	0