Kyung-in Jang

List of Publications by Year
in descending order

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	A soft, wearable microfluidic device for the capture, storage, and colorimetric sensing of sweat. Science Translational Medicine, 2016, 8, 366ra165.	13.4	1,000
2	Soft, stretchable, fully implantable miniaturized optoelectronic systems for wireless optogenetics. Nature Biotechnology, 2015, 33, 1280-1286.	20.8	680
3	Binodal, wireless epidermal electronic systems with in-sensor analytics for neonatal intensive care. Science, 2019, 363, .	20.9	561
4	3D multifunctional integumentary membranes for spatiotemporal cardiac measurements and stimulation across the entire epicardium. Nature Communications, 2014, 5, 3329.	13.2	508
5	Wireless Optofluidic Systems for Programmable InÂVivo Pharmacology and Optogenetics. Cell, 2015, 162, 662-674.	27.8	431
6	Soft network composite materials with deterministic and bio-inspired designs. Nature Communications, 2015, 6, 6566.	13.2	412
7	Self-assembled three dimensional network designs for soft electronics. Nature Communications, 2017, 8, 15894.	13.2	350
8	Battery-free, stretchable optoelectronic systems for wireless optical characterization of the skin. Science Advances, 2016, 2, e1600418.	10.9	346
9	Rugged and breathable forms of stretchable electronics with adherent composite substrates for transcutaneous monitoring. Nature Communications, 2014, 5, 4779.	13.2	325
10	Epidermal mechano-acoustic sensing electronics for cardiovascular diagnostics and human-machine interfaces. Science Advances, 2016, 2, e1601185.	10.9	320
11	Miniaturized Batteryâ€Free Wireless Systems for Wearable Pulse Oximetry. Advanced Functional Materials, 2017, 27, 1604373.	16.5	261
12	A nonlinear mechanics model of bio-inspired hierarchical lattice materials consisting of horseshoe microstructures. Journal of the Mechanics and Physics of Solids, 2016, 90, 179-202.	4.9	239
13	Multifunctional Skinâ€Like Electronics for Quantitative, Clinical Monitoring of Cutaneous Wound Healing. Advanced Healthcare Materials, 2014, 3, 1597-1607.	8.5	237
14	Epidermal photonic devices for quantitative imaging of temperature and thermal transport characteristics of the skin. Nature Communications, 2014, 5, 4938.	13.2	237
15	Miniaturized Flexible Electronic Systems with Wireless Power and Nearâ€Field Communication Capabilities. Advanced Functional Materials, 2015, 25, 4761-4767.	16.5	153
16	Soft, thin skin-mounted power management systems and their use in wireless thermography. Proceedings of the National Academy of Sciences of the United States of America, 2016, 113, 6131-6136.	7.6	143
17	Continuous monitoring of deep-tissue haemodynamics with stretchable ultrasonic phased arrays. Nature Biomedical Engineering, 2021, 5, 749-758.	22.4	133
18	Stretchable and suturable fibre sensors for wireless monitoring of connective tissue strain. Nature Electronics, 2021, 4, 291-301.	18.9	132

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19	Soft Core/Shell Packages for Stretchable Electronics. Advanced Functional Materials, 2015, 25, 3698-3704.	16.5	119
20	Stretchable multichannel antennas in soft wireless optoelectronic implants for optogenetics. Proceedings of the National Academy of Sciences of the United States of America, 2016, 113, E8169-E8177.	7.6	114
21	Miniaturized, Batteryâ€Free Optofluidic Systems with Potential for Wireless Pharmacology and Optogenetics. Small, 2018, 14, 1702479.	11.2	96
22	Design of Strainâ€Limiting Substrate Materials for Stretchable and Flexible Electronics. Advanced Functional Materials, 2016, 26, 5345-5351.	16.5	95
23	Wireless optofluidic brain probes for chronic neuropharmacology and photostimulation. Nature Biomedical Engineering, 2019, 3, 655-669.	22.4	91
24	Biological lipid membranes for on-demand, wireless drug delivery from thin, bioresorbable electronic implants. NPG Asia Materials, 2015, 7, e227-e227.	8.3	84
25	Epidermal radio frequency electronics for wireless power transfer. Microsystems and Nanoengineering, 2016, 2, 16052.	7.2	74
26	Chemical Sensing Systems that Utilize Soft Electronics on Thin Elastomeric Substrates with Open Cellular Designs. Advanced Functional Materials, 2017, 27, 1605476.	16.5	70
27	The equivalent medium of cellular substrate under large stretching, with applications to stretchable electronics. Journal of the Mechanics and Physics of Solids, 2018, 120, 199-207.	4.9	67
28	Preparation and implementation of optofluidic neural probes for in vivo wireless pharmacology and optogenetics. Nature Protocols, 2017, 12, 219-237.	12.5	66
29	Outdoorâ€Useable, Wireless/Batteryâ€Free Patchâ€Type Tissue Oximeter with Radiative Cooling. Advanced Science, 2021, 8, 2004885.	12.4	61
30	Ferromagnetic, Folded Electrode Composite as a Soft Interface to the Skin for Longâ€Term Electrophysiological Recording. Advanced Functional Materials, 2016, 26, 7281-7290.	16.5	54
31	Ultrastretchable Helical Conductive Fibers Using Percolated Ag Nanoparticle Networks Encapsulated by Elastic Polymers with High Durability in Omnidirectional Deformations for Wearable Electronics. Advanced Functional Materials, 2020, 30, 1910026.	16.5	51
32	Epidermal electronics for electromyography: An application to swallowing therapy. Medical Engineering and Physics, 2016, 38, 807-812.	1.8	45
33	Materials and Wireless Microfluidic Systems for Electronics Capable of Chemical Dissolution on Demand. Advanced Functional Materials, 2015, 25, 1338-1343.	16.5	43
34	Mechanically Guided Postâ€Assembly of 3D Electronic Systems. Advanced Functional Materials, 2018, 28, 1803149.	16.5	43
35	Ultra-thin films with highly absorbent porous media fine-tunable for coloration and enhanced color purity. Nanoscale, 2017, 9, 2986-2991.	5.8	42
36	Three-Dimensional Silicon Electronic Systems Fabricated by Compressive Buckling Process. ACS Nano, 2018, 12, 4164-4171.	15.3	40

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37	Dry Transient Electronic Systems by Use of Materials that Sublime. Advanced Functional Materials, 2017, 27, 1606008.	16.5	35
38	Selfâ€Bondable and Stretchable Conductive Composite Fibers with Spatially Controlled Percolated Ag Nanoparticle Networks: Novel Integration Strategy for Wearable Electronics. Advanced Functional Materials, 2020, 30, 2005447.	16.5	33
39	Wrinkling of a stiff thin film bonded to a pre-strained, compliant substrate with finite thickness. Proceedings of the Royal Society A: Mathematical, Physical and Engineering Sciences, 2016, 472, 20160339.	2.1	28
40	Instant, multiscale dry transfer printing by atomic diffusion control at heterogeneous interfaces. Science Advances, 2021, 7, .	10.9	28
41	Thin Metallic Heat Sink for Interfacial Thermal Management in Biointegrated Optoelectronic Devices. Advanced Materials Technologies, 2018, 3, 1800159.	6.2	27
42	Selfâ€Cooling Galliumâ€Based Transformative Electronics with a Radiative Cooler for Reliable Stiffness Tuning in Outdoor Use. Advanced Science, 2022, 9, .	12.4	23
43	Rapidly Customizable, Scalable 3Dâ€Printed Wireless Optogenetic Probes for Versatile Applications in Neuroscience. Advanced Functional Materials, 2020, 30, 2004285.	16.5	20
44	Ultrasensitive and Stretchable Conductive Fibers Using Percolated Pd Nanoparticle Networks for Multisensing Wearable Electronics: Crack-Based Strain and H₂ Sensors. ACS Applied Materials & Interfaces, 2020, 12, 45243-45253.	8.3	17
45	Electrochemical oxidation assisted micromachining of glassy carbon substrate. International Journal of Precision Engineering and Manufacturing, 2015, 16, 419-422.	2.3	12
46	Closed-Loop Neuromodulation for Parkinsonâ€™s Disease: Current State and Future Directions. IEEE Transactions on Molecular, Biological, and Multi-Scale Communications, 2021, 7, 209-223.	2.3	11
47	Strain-Insensitive Stretchable Fiber Conductors Based on Highly Conductive Buckled Shells for Wearable Electronics. ACS Applied Materials & Interfaces, 2023, 15, 18281-18289.	8.3	9
48	Highly Deformable Doubleâ€Sided Neural Probe with Allâ€inâ€One Electrode System for Realâ€Time In Vivo Detection of Dopamine for Parkinson's Disease. Advanced Functional Materials, 2024, 34, .	16.5	2
49	Wearable electrochemical sensors for real-time monitoring in diabetes mellitus and associated complications. , 0, 4, .		1
50	Fabrication of Ultra-thin Color Films with Highly Absorbing Media Using Oblique Angle Deposition. Journal of Visualized Experiments, 2017, , .	0.3	0
51	Heterogeneous Material Integration via Autogenous Transfer Printing Using a Graphene Oxide Release Layer. ACS Applied Nano Materials, 0, , .	5.2	0
52	Water-based direct photopatterning of stretchable PEDOT:PSS using amphiphilic block copolymers. Npj Flexible Electronics, 2024, 8, .	11.2	0
53	Bioelectronic Implantable Devices for Physiological Signal Recording and Closedâ€Loop Neuromodulation. Advanced Functional Materials, 0, , .	16.5	0
54	Diabetes Management in Transition: Market Insights and Technological Advancements in CGM and Insulin Delivery. Advanced Sensor Research, 0, , .	2.0	0

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55	Fabric-based lamina emergent MXene-based electrode for electrophysiological monitoring. Nature Communications, 2024, 15, .	13.2	0