

# Jeonghyun Kim

## List of Publications by Citations

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The third column is the impact factor (IF) of the journal, and the fourth column is the number of citations of the article.

51  
papers

6,598  
citations

31  
h-index

55  
g-index

55  
ext. papers

7,874  
ext. citations

15.1  
avg, IF

5.05  
L-index

#	Paper	IF	Citations
51	Soft microfluidic assemblies of sensors, circuits, and radios for the skin. <i>Science</i> , <b>2014</b> , 344, 70-4	33.3	802
50	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
49	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
48	Bioresorbable silicon electronic sensors for the brain. <i>Nature</i> , <b>2016</b> , 530, 71-6	50.4	582
47	Binodal, wireless epidermal electronic systems with in-sensor analytics for neonatal intensive care. <i>Science</i> , <b>2019</b> , 363,	33.3	316
46	Battery-free, skin-interfaced microfluidic/electronic systems for simultaneous electrochemical, colorimetric, and volumetric analysis of sweat. <i>Science Advances</i> , <b>2019</b> , 5, eaav3294	14.3	299
45	Soft network composite materials with deterministic and bio-inspired designs. <i>Nature Communications</i> , <b>2015</b> , 6, 6566	17.4	289
44	Battery-free, stretchable optoelectronic systems for wireless optical characterization of the skin. <i>Science Advances</i> , <b>2016</b> , 2, e1600418	14.3	266
43	Self-assembled three dimensional network designs for soft electronics. <i>Nature Communications</i> , <b>2017</b> , 8, 15894	17.4	238
42	Flexible Near-Field Wireless Optoelectronics as Subdermal Implants for Broad Applications in Optogenetics. <i>Neuron</i> , <b>2017</b> , 93, 509-521.e3	13.9	225
41	Epidermal electronics with advanced capabilities in near-field communication. <i>Small</i> , <b>2015</b> , 11, 906-12	11	191
40	Wireless bioresorbable electronic system enables sustained nonpharmacological neuroregenerative therapy. <i>Nature Medicine</i> , <b>2018</b> , 24, 1830-1836	50.5	190
39	Miniaturized Battery-Free Wireless Systems for Wearable Pulse Oximetry. <i>Advanced Functional Materials</i> , <b>2017</b> , 27, 1604373	15.6	182
38	Battery-free, wireless sensors for full-body pressure and temperature mapping. <i>Science Translational Medicine</i> , <b>2018</b> , 10,	17.5	176
37	An Epidermal Stimulation and Sensing Platform for Sensorimotor Prosthetic Control, Management of Lower Back Exertion, and Electrical Muscle Activation. <i>Advanced Materials</i> , <b>2016</b> , 28, 4462-71	24	173
36	Mechanical assembly of complex, 3D mesostructures from releasable multilayers of advanced materials. <i>Science Advances</i> , <b>2016</b> , 2, e1601014	14.3	152
35	A skin-attachable, stretchable integrated system based on liquid GaInSn for wireless human motion monitoring with multi-site sensing capabilities. <i>NPG Asia Materials</i> , <b>2017</b> , 9, e443-e443	10.3	145

34	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
33	Materials and Device Designs for an Epidermal UV Colorimetric Dosimeter with Near Field Communication Capabilities. <i>Advanced Functional Materials</i> , <b>2017</b> , 27, 1604465	15.6	108
32	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
31	Super-Absorbent Polymer Valves and Colorimetric Chemistries for Time-Sequenced Discrete Sampling and Chloride Analysis of Sweat via Skin-Mounted Soft Microfluidics. <i>Small</i> , <b>2018</b> , 14, e1703334 <sup>11</sup>	11	81
30	Fully implantable, battery-free wireless optoelectronic devices for spinal optogenetics. <i>Pain</i> , <b>2017</b> , 158, 2108-2116	8	76
29	Multimodal Sensing with a Three-Dimensional Piezoresistive Structure. <i>ACS Nano</i> , <b>2019</b> , 13, 10972-10979	6.7	75
28	Soft Elastomers with Ionic Liquid-Filled Cavities as Strain Isolating Substrates for Wearable Electronics. <i>Small</i> , <b>2017</b> , 13, 1602954	11	67
27	Wireless, battery-free, flexible, miniaturized dosimeters monitor exposure to solar radiation and to light for phototherapy. <i>Science Translational Medicine</i> , <b>2018</b> , 10,	17.5	59
26	Patterned oxide semiconductor by electrohydrodynamic jet printing for transparent thin film transistors. <i>Applied Physics Letters</i> , <b>2012</b> , 100, 102108	3.4	54
25	Room Temperature Electrochemical Sintering of Zn Microparticles and Its Use in Printable Conducting Inks for Bioresorbable Electronics. <i>Advanced Materials</i> , <b>2017</b> , 29, 1702665	24	48
24	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
23	Encapsulation of S/SWNT with PANI web for enhanced rate and cycle performance in lithium sulfur batteries. <i>Scientific Reports</i> , <b>2015</b> , 5, 8946	4.9	37
22	Wirelessly controlled, bioresorbable drug delivery device with active valves that exploit electrochemically triggered crevice corrosion. <i>Science Advances</i> , <b>2020</b> , 6, eabb1093	14.3	35
21	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
20	WO/W:BiVO/BiVO graded photoabsorber electrode for enhanced photoelectrocatalytic solar light driven water oxidation. <i>Physical Chemistry Chemical Physics</i> , <b>2017</b> , 19, 4648-4655	3.6	28
19	Recent Advances in AIV Biosensors Composed of Nanobio Hybrid Material. <i>Micromachines</i> , <b>2018</b> , 9,	3.3	26
18	Mechanically Guided Post-Assembly of 3D Electronic Systems. <i>Advanced Functional Materials</i> , <b>2018</b> , 28, 1803149	15.6	26
17	Three-Dimensional Silicon Electronic Systems Fabricated by Compressive Buckling Process. <i>ACS Nano</i> , <b>2018</b> , 12, 4164-4171	16.7	23

16	Battery-free, wireless soft sensors for continuous multi-site measurements of pressure and temperature from patients at risk for pressure injuries. <i>Nature Communications</i> , <b>2021</b> , 12, 5008	17.4	21
15	Wireless, Skin-Mountable EMG Sensor for Human-Machine Interface Application. <i>Micromachines</i> , <b>2019</b> , 10,	3.3	12
14	Miniaturized, light-adaptive, wireless dosimeters autonomously monitor exposure to electromagnetic radiation. <i>Science Advances</i> , <b>2019</b> , 5, eaay2462	14.3	12
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	Flexible Electronics: An Epidermal Stimulation and Sensing Platform for Sensorimotor Prosthetic Control, Management of Lower Back Exertion, and Electrical Muscle Activation (Adv. Mater. 22/2016). <i>Advanced Materials</i> , <b>2016</b> , 28, 4563	24	6
11	Near-Field Communication in Biomedical Applications. <i>Sensors</i> , <b>2021</b> , 21,	3.8	4
10	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
9	Solution processes for ultrabroadband and omnidirectional graded-index glass lenses with near-zero reflectivity in high concentration photovoltaics. <i>Scientific Reports</i> , <b>2018</b> , 8, 14907	4.9	3
8	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	15.6	2
7	Nitrogen-Doped Reduced Graphene Oxide Supported PdRu Nanoparticles Electrocatalyst for Oxygen Reduction Reaction. <i>Nanomaterials</i> , <b>2021</b> , 11,	5.4	2
6	Stretchable and Transparent Paper Based on PDMS/NC Composite for Direct Printing. <i>Advanced Materials Technologies</i> , <b>2021</b> , 6, 2100156	6.8	2
5	Assembly-Type Wireless Communication Patch for Miniaturized Flexible Wearable Sensors. <i>Advanced Materials Technologies</i> , <b>2021</b> , 6, 2100034	6.8	2
4	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
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	Networks and near-field communication: up-close but far away <b>2021</b> , 197-210		
1	Wireless, Accumulation Mode Dosimeters for Monitoring Pulsed and Non-Pulsed Germicidal Lamps. <i>IEEE Sensors Journal</i> , <b>2021</b> , 21, 18706-18714	4	