Jeonghyun Kim

List of Publications by Year in Descending Order

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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	Nitrogen-Doped Reduced Graphene Oxide Supported PdRu Nanoparticles Electrocatalyst for Oxygen Reduction Reaction. *Nanomaterials*, **2021**, 11,	5.4	2
50	Stretchable and Transparent Paper Based on PDMS/CNC Composite for Direct Printing. *Advanced Materials Technologies*, **2021**, 6, 2100156	6.8	2
49	Assembly-Type Wireless Communication Patch for Miniaturized Flexible Wearable Sensors. *Advanced Materials Technologies*, **2021**, 6, 2100034	6.8	2
48	Near-Field Communication in Biomedical Applications. *Sensors*, **2021**, 21,	3.8	4
47	Networks and near-field communication: up-close but far away **2021**, 197-210		
46	Battery-free, wireless soft sensors for continuous multi-site measurements of pressure and temperature from patients at risk for pressure injuries. *Nature Communications*, **2021**, 12, 5008	17.4	21
45	Wireless, Accumulation Mode Dosimeters for Monitoring Pulsed and Non-Pulsed Germicidal Lamps. *IEEE Sensors Journal*, **2021**, 21, 18706-18714	4	
44	Wirelessly controlled, bioresorbable drug delivery device with active valves that exploit electrochemically triggered crevice corrosion. *Science Advances*, **2020**, 6, eabb1093	14.3	35
43	Multimodal Sensing with a Three-Dimensional Piezoresistive Structure. *ACS Nano*, **2019**, 13, 10972-10979	16.7	75
42	Binodal, wireless epidermal electronic systems with in-sensor analytics for neonatal intensive care. *Science*, **2019**, 363,	33.3	316
41	Wireless, Skin-Mountable EMG Sensor for Human-Machine Interface Application. *Micromachines*, **2019**, 10,	3.3	12
40	Miniaturized, light-adaptive, wireless dosimeters autonomously monitor exposure to electromagnetic radiation. *Science Advances*, **2019**, 5, eaay2462	14.3	12
39	Battery-free, skin-interfaced microfluidic/electronic systems for simultaneous electrochemical, colorimetric, and volumetric analysis of sweat. *Science Advances*, **2019**, 5, eaav3294	14.3	299
38	Battery-free, wireless sensors for full-body pressure and temperature mapping. *Science Translational Medicine*, **2018**, 10,	17.5	176
37	Three-Dimensional Silicon Electronic Systems Fabricated by Compressive Buckling Process. *ACS Nano*, **2018**, 12, 4164-4171	16.7	23
36	Super-Absorbent Polymer Valves and Colorimetric Chemistries for Time-Sequenced Discrete Sampling and Chloride Analysis of Sweat via Skin-Mounted Soft Microfluidics. *Small*, **2018**, 14, e1703334	11	81
35	Recent Advances in AIV Biosensors Composed of Nanobio Hybrid Material. *Micromachines*, **2018**, 9,	3.3	26

34	Electronic Stuctures: Mechanically Guided Post-Assembly of 3D Electronic Systems (Adv. Funct. Mater. 48/2018). *Advanced Functional Materials*, **2018**, 28, 1870344	15.6	1
33	Wireless, battery-free, flexible, miniaturized dosimeters monitor exposure to solar radiation and to light for phototherapy. *Science Translational Medicine*, **2018**, 10,	17.5	59
32	Wireless bioresorbable electronic system enables sustained nonpharmacological neuroregenerative therapy. *Nature Medicine*, **2018**, 24, 1830-1836	50.5	190
31	Mechanically Guided Post-Assembly of 3D Electronic Systems. *Advanced Functional Materials*, **2018**, 28, 1803149	15.6	26
30	Solution processes for ultrabroadband and omnidirectional graded-index glass lenses with near-zero reflectivity in high concentration photovoltaics. *Scientific Reports*, **2018**, 8, 14907	4.9	3
29	WO/W:BiVO/BiVO graded photoabsorber electrode for enhanced photoelectrocatalytic solar light driven water oxidation. *Physical Chemistry Chemical Physics*, **2017**, 19, 4648-4655	3.6	28
28	Flexible Near-Field Wireless Optoelectronics as Subdermal Implants for Broad Applications in Optogenetics. *Neuron*, **2017**, 93, 509-521.e3	13.9	225
27	Self-assembled three dimensional network designs for soft electronics. *Nature Communications*, **2017**, 8, 15894	17.4	238
26	Soft Elastomers with Ionic Liquid-Filled Cavities as Strain Isolating Substrates for Wearable Electronics. *Small*, **2017**, 13, 1602954	11	67
25	Oximetry: Miniaturized Battery-Free Wireless Systems for Wearable Pulse Oximetry (Adv. Funct. Mater. 1/2017). *Advanced Functional Materials*, **2017**, 27,	15.6	3
24	A skin-attachable, stretchable integrated system based on liquid GaInSn for wireless human motion monitoring with multi-site sensing capabilities. *NPG Asia Materials*, **2017**, 9, e443-e443	10.3	145
23	Room Temperature Electrochemical Sintering of Zn Microparticles and Its Use in Printable Conducting Inks for Bioresorbable Electronics. *Advanced Materials*, **2017**, 29, 1702665	24	48
22	Fully implantable, battery-free wireless optoelectronic devices for spinal optogenetics. *Pain*, **2017**, 158, 2108-2116	8	76
21	Materials and Device Designs for an Epidermal UV Colorimetric Dosimeter with Near Field Communication Capabilities. *Advanced Functional Materials*, **2017**, 27, 1604465	15.6	108
20	Miniaturized Battery-Free Wireless Systems for Wearable Pulse Oximetry. *Advanced Functional Materials*, **2017**, 27, 1604373	15.6	182
19	A soft, wearable microfluidic device for the capture, storage, and colorimetric sensing of sweat. *Science Translational Medicine*, **2016**, 8, 366ra165	17.5	665
18	Electrodes: Ferromagnetic, Folded Electrode Composite as a Soft Interface to the Skin for Long-Term Electrophysiological Recording (Adv. Funct. Mater. 40/2016). *Advanced Functional Materials*, **2016**, 26, 7280-7280	15.6	
17	Battery-free, stretchable optoelectronic systems for wireless optical characterization of the skin. *Science Advances*, **2016**, 2, e1600418	14.3	266

16	Mechanical assembly of complex, 3D mesostructures from releasable multilayers of advanced materials. *Science Advances*, **2016**, 2, e1601014	14.3	152
15	Bioresorbable silicon electronic sensors for the brain. *Nature*, **2016**, 530, 71-6	50.4	582
14	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). *Advanced Materials*, **2016**, 28, 4563	24	6
13	An Epidermal Stimulation and Sensing Platform for Sensorimotor Prosthetic Control, Management of Lower Back Exertion, and Electrical Muscle Activation. *Advanced Materials*, **2016**, 28, 4462-71	24	173
12	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, 6131-6	11.5	108
11	Ferromagnetic, folded electrode composite as a soft interface to the skin for long-term electrophysiological recording. *Advanced Functional Materials*, **2016**, 26, 7281-7290	15.6	40
10	Stretchable Electronics: Epidermal Electronics with Advanced Capabilities in Near-Field Communication (Small 8/2015). *Small*, **2015**, 11, 905-905	11	8
9	Soft network composite materials with deterministic and bio-inspired designs. *Nature Communications*, **2015**, 6, 6566	17.4	289
8	Encapsulation of S/SWNT with PANI web for enhanced rate and cycle performance in lithium sulfur batteries. *Scientific Reports*, **2015**, 5, 8946	4.9	37
7	Materials and Wireless Microfluidic Systems for Electronics Capable of Chemical Dissolution on Demand. *Advanced Functional Materials*, **2015**, 25, 1338-1343	15.6	34
6	Epidermal electronics with advanced capabilities in near-field communication. *Small*, **2015**, 11, 906-12	11	191
5	Epidermal Electronics: Miniaturized Flexible Electronic Systems with Wireless Power and Near-Field Communication Capabilities (Adv. Funct. Mater. 30/2015). *Advanced Functional Materials*, **2015**, 25, 4919-4919	15.6	2
4	Miniaturized Flexible Electronic Systems with Wireless Power and Near-Field Communication Capabilities. *Advanced Functional Materials*, **2015**, 25, 4761-4767	15.6	114
3	Materials science. Assembly of micro/nanomaterials into complex, three-dimensional architectures by compressive buckling. *Science*, **2015**, 347, 154-9	33.3	587
2	Soft microfluidic assemblies of sensors, circuits, and radios for the skin. *Science*, **2014**, 344, 70-4	33.3	802
1	Patterned oxide semiconductor by electrohydrodynamic jet printing for transparent thin film transistors. *Applied Physics Letters*, **2012**, 100, 102108	3.4	54