Geumbee Lee

List of Publications by Year in descending order

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40 papers	3,902 citations	109137 35 h-index	288905 40 g-index
40 all docs	40 docs citations	40 times ranked	4853 citing authors

#	Article	IF	Citations
1	Skin-Attachable, Stretchable Electrochemical Sweat Sensor for Glucose and pH Detection. ACS Applied Materials & Interfaces, 2018, 10, 13729-13740.	4.0	314
2	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.	3.8	223
3	Fully Biodegradable Microsupercapacitor for Power Storage in Transient Electronics. Advanced Energy Materials, 2017, 7, 1700157.	10.2	196
4	Microporous Polypyrroleâ€Coated Graphene Foam for Highâ€Performance Multifunctional Sensors and Flexible Supercapacitors. Advanced Functional Materials, 2018, 28, 1707013.	7.8	195
5	Stretchable patterned graphene gas sensor driven by integrated micro-supercapacitor array. Nano Energy, 2016, 19, 401-414.	8.2	179
6	Fully implantable and bioresorbable cardiac pacemakers without leads or batteries. Nature Biotechnology, 2021, 39, 1228-1238.	9.4	163
7	All-solid-state flexible micro-supercapacitor arrays with patterned graphene/MWNT electrodes. Carbon, 2014, 79, 156-164.	5.4	151
8	Stretchable, dynamic covalent polymers for soft, long-lived bioresorbable electronic stimulators designed to facilitate neuromuscular regeneration. Nature Communications, 2020, 11, 5990.	5.8	144
9	Fabrication of a stretchable and patchable array of high performance micro-supercapacitors using a non-aqueous solvent based gel electrolyte. Energy and Environmental Science, 2015, 8, 1764-1774.	15.6	138
10	Bodyâ€Attachable and Stretchable Multisensors Integrated with Wirelessly Rechargeable Energy Storage Devices. Advanced Materials, 2016, 28, 748-756.	11.1	129
11	Three-dimensional electronic microfliers inspired by wind-dispersed seeds. Nature, 2021, 597, 503-510.	13.7	120
12	Dynamically Stretchable Supercapacitor for Powering an Integrated Biosensor in an All-in-One Textile System. ACS Nano, 2019, 13, 10469-10480.	7.3	116
13	A Patterned Graphene/ZnO UV Sensor Driven by Integrated Asymmetric Microâ€Supercapacitors on a Liquid Metal Patterned Foldable Paper. Advanced Functional Materials, 2017, 27, 1700135.	7.8	114
14	Encapsulated, High-Performance, Stretchable Array of Stacked Planar Micro-Supercapacitors as Waterproof Wearable Energy Storage Devices. ACS Applied Materials & Interfaces, 2016, 8, 16016-16025.	4.0	112
15	Paperâ€Like, Thin, Foldable, and Selfâ€Healable Electronics Based on PVA/CNC Nanocomposite Film. Advanced Functional Materials, 2019, 29, 1905968.	7.8	102
16	A transient, closed-loop network of wireless, body-integrated devices for autonomous electrotherapy. Science, 2022, 376, 1006-1012.	6.0	90
17	Fabrication of high performance flexible micro-supercapacitor arrays with hybrid electrodes of MWNT/V₂O₅nanowires integrated with a SnO₂nanowire UV sensor. Nanoscale, 2014, 6, 12034-12041.	2.8	89
18	Wirelessly controlled, bioresorbable drug delivery device with active valves that exploit electrochemically triggered crevice corrosion. Science Advances, 2020, 6, eabb1093.	4.7	87

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19	Facile fabrication of a fully biodegradable and stretchable serpentine-shaped wire supercapacitor. Chemical Engineering Journal, 2019, 366, 62-71.	6.6	84
20	Soft, skin-interfaced microfluidic systems with integrated immunoassays, fluorometric sensors, and impedance measurement capabilities. Proceedings of the National Academy of Sciences of the United States of America, 2020, 117, 27906-27915.	3.3	84
21	Air-Stable, High-Performance, Flexible Microsupercapacitor with Patterned Ionogel Electrolyte. ACS Applied Materials & Interfaces, 2015, 7, 4608-4615.	4.0	83
22	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.	5.8	83
23	Skin-Like, Dynamically Stretchable, Planar Supercapacitors with Buckled Carbon Nanotube/Mnâ€“Mo Mixed Oxide Electrodes and Air-Stable Organic Electrolyte. ACS Nano, 2019, 13, 855-866.	7.3	81
24	Fabrication of flexible micro-supercapacitor array with patterned graphene foam/MWNT-COOH/MnO electrodes and its application. Carbon, 2015, 81, 29-37.	5.4	79
25	Stretchable, Skin-Attachable Electronics with Integrated Energy Storage Devices for Biosignal Monitoring. Accounts of Chemical Research, 2019, 52, 91-99.	7.6	78
26	High-performance all-solid-state flexible micro-supercapacitor arrays with layer-by-layer assembled MWNT/MnO_xnanocomposite electrodes. Nanoscale, 2014, 6, 9655-9664.	2.8	71
27	Soft, skin-interfaced microfluidic systems with integrated enzymatic assays for measuring the concentration of ammonia and ethanol in sweat. Lab on A Chip, 2020, 20, 84-92.	3.1	67
28	Biodegradable Polyanhydrides as Encapsulation Layers for Transient Electronics. Advanced Functional Materials, 2020, 30, 2000941.	7.8	67
29	High performance wire-type supercapacitor with Ppy/CNT-ionic liquid/AuNP/carbon fiber electrode and ionic liquid based electrolyte. Carbon, 2019, 144, 639-648.	5.4	57
30	Flexible, water-proof, wire-type supercapacitors integrated with wire-type UV/NO2 sensors on textiles. Nano Energy, 2017, 35, 199-206.	8.2	52
31	Advances in Physicochemically Stimuli-Responsive Materials for On-Demand Transient Electronic Systems. Matter, 2020, 3, 1031-1052.	5.0	49
32	High performance flexible micro-supercapacitor for powering a vertically integrated skin-attachable strain sensor on a bio-inspired adhesive. Nano Energy, 2021, 83, 105837.	8.2	48
33	High performance flexible double-sided micro-supercapacitors with an organic gel electrolyte containing a redox-active additive. Nanoscale, 2016, 8, 15611-15620.	2.8	44
34	A Shape Memory Highâ€Voltage Supercapacitor with Asymmetric Organic Electrolytes for Driving an Integrated NO₂ Gas Sensor. Advanced Functional Materials, 2019, 29, 1901996.	7.8	44
35	Low power stretchable active-matrix red, green, blue (RGB) electrochromic device array of poly(3-methylthiophene)/Prussian blue. Applied Surface Science, 2019, 471, 300-308.	3.1	44
36	Wire-Shaped Supercapacitors with Organic Electrolytes Fabricated via Layer-by-Layer Assembly. ACS Applied Materials & Interfaces, 2018, 10, 26248-26257.	4.0	34

#	Article	IF	Citations
37	A rationally designed flexible self-healing system with a high performance supercapacitor for powering an integrated multifunctional sensor. Applied Surface Science, 2020, 515, 146018.	3.1	31
38	Materials Chemistry of Neural Interface Technologies and Recent Advances in Three-Dimensional Systems. Chemical Reviews, 2022, 122, 5277-5316.	23.0	31
39	A Flexible Loudspeaker Using the Movement of Liquid Metal Induced by Electrochemically Controlled Interfacial Tension. Small, 2019, 15, e1905263.	5.2	23
40	Functional Encapsulating Structure for Wireless and Immediate Monitoring of the Fluid Penetration. Advanced Functional Materials, 2022, 32, .	7.8	6