

Geumbee Lee

List of Publications by Year in descending order

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Version: 2024-02-01

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	Materials Chemistry of Neural Interface Technologies and Recent Advances in Three-Dimensional Systems. <i>Chemical Reviews</i> , 2022, 122, 5277-5316.	23.0	31
2	Functional Encapsulating Structure for Wireless and Immediate Monitoring of the Fluid Penetration. <i>Advanced Functional Materials</i> , 2022, 32, .	7.8	6
3	A transient, closed-loop network of wireless, body-integrated devices for autonomous electrotherapy. <i>Science</i> , 2022, 376, 1006-1012.	6.0	90
4	High performance flexible micro-supercapacitor for powering a vertically integrated skin-attachable strain sensor on a bio-inspired adhesive. <i>Nano Energy</i> , 2021, 83, 105837.	8.2	48
5	Fully implantable and bioresorbable cardiac pacemakers without leads or batteries. <i>Nature Biotechnology</i> , 2021, 39, 1228-1238.	9.4	163
6	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> , 2021, 12, 5008.	5.8	83
7	Three-dimensional electronic microfliers inspired by wind-dispersed seeds. <i>Nature</i> , 2021, 597, 503-510.	13.7	120
8	Soft, skin-interfaced microfluidic systems with integrated enzymatic assays for measuring the concentration of ammonia and ethanol in sweat. <i>Lab on A Chip</i> , 2020, 20, 84-92.	3.1	67
9	Advances in Physicochemically Stimuli-Responsive Materials for On-Demand Transient Electronic Systems. <i>Matter</i> , 2020, 3, 1031-1052.	5.0	49
10	Stretchable, dynamic covalent polymers for soft, long-lived bioresorbable electronic stimulators designed to facilitate neuromuscular regeneration. <i>Nature Communications</i> , 2020, 11, 5990.	5.8	144
11	Soft, skin-interfaced microfluidic systems with integrated immunoassays, fluorometric sensors, and impedance measurement capabilities. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2020, 117, 27906-27915.	3.3	84
12	Wirelessly controlled, bioresorbable drug delivery device with active valves that exploit electrochemically triggered crevice corrosion. <i>Science Advances</i> , 2020, 6, eabb1093.	4.7	87
13	A rationally designed flexible self-healing system with a high performance supercapacitor for powering an integrated multifunctional sensor. <i>Applied Surface Science</i> , 2020, 515, 146018.	3.1	31
14	Biodegradable Polyanhydrides as Encapsulation Layers for Transient Electronics. <i>Advanced Functional Materials</i> , 2020, 30, 2000941.	7.8	67
15	Paper-Like, Thin, Foldable, and Self-Healable Electronics Based on PVA/CNC Nanocomposite Film. <i>Advanced Functional Materials</i> , 2019, 29, 1905968.	7.8	102
16	Dynamically Stretchable Supercapacitor for Powering an Integrated Biosensor in an All-in-One Textile System. <i>ACS Nano</i> , 2019, 13, 10469-10480.	7.3	116
17	A Shape Memory High-Voltage Supercapacitor with Asymmetric Organic Electrolytes for Driving an Integrated NO ₂ Gas Sensor. <i>Advanced Functional Materials</i> , 2019, 29, 1901996.	7.8	44
18	Facile fabrication of a fully biodegradable and stretchable serpentine-shaped wire supercapacitor. <i>Chemical Engineering Journal</i> , 2019, 366, 62-71.	6.6	84

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19	A Flexible Loudspeaker Using the Movement of Liquid Metal Induced by Electrochemically Controlled Interfacial Tension. <i>Small</i> , 2019, 15, e1905263.	5.2	23
20	Stretchable, Skin-Attachable Electronics with Integrated Energy Storage Devices for Biosignal Monitoring. <i>Accounts of Chemical Research</i> , 2019, 52, 91-99.	7.6	78
21	Skin-Like, Dynamically Stretchable, Planar Supercapacitors with Buckled Carbon Nanotube/Mn ²⁺ /Mo Mixed Oxide Electrodes and Air-Stable Organic Electrolyte. <i>ACS Nano</i> , 2019, 13, 855-866.	7.3	81
22	High performance wire-type supercapacitor with Ppy/CNT-ionic liquid/AuNP/carbon fiber electrode and ionic liquid based electrolyte. <i>Carbon</i> , 2019, 144, 639-648.	5.4	57
23	Low power stretchable active-matrix red, green, blue (RGB) electrochromic device array of poly(3-methylthiophene)/Prussian blue. <i>Applied Surface Science</i> , 2019, 471, 300-308.	3.1	44
24	Skin-Attachable, Stretchable Electrochemical Sweat Sensor for Glucose and pH Detection. <i>ACS Applied Materials & Interfaces</i> , 2018, 10, 13729-13740.	4.0	314
25	Microporous Polypyrrole-Coated Graphene Foam for High-Performance Multifunctional Sensors and Flexible Supercapacitors. <i>Advanced Functional Materials</i> , 2018, 28, 1707013.	7.8	195
26	Wire-Shaped Supercapacitors with Organic Electrolytes Fabricated via Layer-by-Layer Assembly. <i>ACS Applied Materials & Interfaces</i> , 2018, 10, 26248-26257.	4.0	34
27	A Patterned Graphene/ZnO UV Sensor Driven by Integrated Asymmetric Micro-Supercapacitors on a Liquid Metal Patterned Foldable Paper. <i>Advanced Functional Materials</i> , 2017, 27, 1700135.	7.8	114
28	Fully Biodegradable Microsupercapacitor for Power Storage in Transient Electronics. <i>Advanced Energy Materials</i> , 2017, 7, 1700157.	10.2	196
29	Flexible, water-proof, wire-type supercapacitors integrated with wire-type UV/NO ₂ sensors on textiles. <i>Nano Energy</i> , 2017, 35, 199-206.	8.2	52
30	A skin-attachable, stretchable integrated system based on liquid GalnSn for wireless human motion monitoring with multi-site sensing capabilities. <i>NPG Asia Materials</i> , 2017, 9, e443-e443.	3.8	223
31	High performance flexible double-sided micro-supercapacitors with an organic gel electrolyte containing a redox-active additive. <i>Nanoscale</i> , 2016, 8, 15611-15620.	2.8	44
32	Encapsulated, High-Performance, Stretchable Array of Stacked Planar Micro-Supercapacitors as Waterproof Wearable Energy Storage Devices. <i>ACS Applied Materials & Interfaces</i> , 2016, 8, 16016-16025.	4.0	112
33	Body-Attachable and Stretchable Multisensors Integrated with Wirelessly Rechargeable Energy Storage Devices. <i>Advanced Materials</i> , 2016, 28, 748-756.	11.1	129
34	Stretchable patterned graphene gas sensor driven by integrated micro-supercapacitor array. <i>Nano Energy</i> , 2016, 19, 401-414.	8.2	179
35	Air-Stable, High-Performance, Flexible Microsupercapacitor with Patterned Ionogel Electrolyte. <i>ACS Applied Materials & Interfaces</i> , 2015, 7, 4608-4615.	4.0	83
36	Fabrication of a stretchable and patchable array of high performance micro-supercapacitors using a non-aqueous solvent based gel electrolyte. <i>Energy and Environmental Science</i> , 2015, 8, 1764-1774.	15.6	138

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37	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
38	Fabrication of high performance flexible micro-supercapacitor arrays with hybrid electrodes of MWNT/V ₂ O ₅ nanowires integrated with a SnO ₂ nanowire UV sensor. Nanoscale, 2014, 6, 12034-12041.	2.8	89
39	All-solid-state flexible micro-supercapacitor arrays with patterned graphene/MWNT electrodes. Carbon, 2014, 79, 156-164.	5.4	151
40	High-performance all-solid-state flexible micro-supercapacitor arrays with layer-by-layer assembled MWNT/MnO _x nanocomposite electrodes. Nanoscale, 2014, 6, 9655-9664.	2.8	71