

Gi Doo Cha

List of Publications by Year in Descending Order

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Version: 2024-04-23

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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.

59
papers

11,007
citations

37
h-index

65
g-index

65
ext. papers

12,941
ext. citations

17.8
avg, IF

6.24
L-index

#	Paper	IF	Citations
59	Bio-inspired electronic eyes and synaptic photodetectors for mobile artificial vision 2022 , 1-1		0
58	Adaptive self-organization of nanomaterials enables strain-insensitive resistance of stretchable metallic nanocomposites.. <i>Advanced Materials</i> , 2022 , e2200980	24	3
57	Stretchable conductive nanocomposites and their applications in wearable devices. <i>Applied Physics Reviews</i> , 2022 , 9, 021312	17.3	3
56	Localized Delivery of Theranostic Nanoparticles and High-Energy Photons using Microneedles-on-Bioelectronics. <i>Advanced Materials</i> , 2021 , 33, e2100425	24	15
55	Tissue-like skin-device interface for wearable bioelectronics by using ultrasoft, mass-permeable, and low-impedance hydrogels. <i>Science Advances</i> , 2021 , 7,	14.3	56
54	Wireless Power Transfer and Telemetry for Implantable Bioelectronics. <i>Advanced Healthcare Materials</i> , 2021 , 10, e2100614	10.1	10
53	Wearable and Implantable Soft Bioelectronics: Device Designs and Material Strategies. <i>Annual Review of Chemical and Biomolecular Engineering</i> , 2021 , 12, 359-391	8.9	28
52	Soft implantable drug delivery device integrated wirelessly with wearable devices to treat fatal seizures. <i>Science Advances</i> , 2021 , 7,	14.3	36
51	Functionalized Elastomers for Intrinsically Soft and Biointegrated Electronics. <i>Advanced Healthcare Materials</i> , 2021 , 10, e2002105	10.1	13
50	Nanoscale Materials and Deformable Device Designs for Bioinspired and Biointegrated Electronics. <i>Accounts of Materials Research</i> , 2021 , 2, 266-281	7.5	7
49	Highly conductive and elastic nanomembrane for skin electronics. <i>Science</i> , 2021 , 373, 1022-1026	33.3	41
48	Flexible and biodegradable electronic implants for diagnosis and treatment of brain diseases. <i>Current Opinion in Biotechnology</i> , 2021 , 72, 13-21	11.4	1
47	Soft Bioelectronics Based on Nanomaterials.. <i>Chemical Reviews</i> , 2021 ,	68.1	11
46	Sensors in heart-on-a-chip: A review on recent progress. <i>Talanta</i> , 2020 , 219, 121269	6.2	16
45	Material Design and Fabrication Strategies for Stretchable Metallic Nanocomposites. <i>Small</i> , 2020 , 16, e1906270	11	35
44	Stretchable Low-Impedance Nanocomposite Comprised of Ag@Au Core-Shell Nanowires and Pt Black for Epicardial Recording and Stimulation. <i>Advanced Materials Technologies</i> , 2020 , 5, 1900768	6.8	24
43	Advances in drug delivery technology for the treatment of glioblastoma multiforme. <i>Journal of Controlled Release</i> , 2020 , 328, 350-367	11.7	25

42	Self-assembly for electronics. <i>MRS Bulletin</i> , 2020 , 45, 807-814	3.2	6
41	Material-Based Approaches for the Fabrication of Stretchable Electronics. <i>Advanced Materials</i> , 2020 , 32, e1902743	24	149
40	Materials engineering, processing, and device application of hydrogel nanocomposites. <i>Nanoscale</i> , 2020 , 12, 10456-10473	7.7	30
39	Wearable and Implantable Devices for Cardiovascular Healthcare: from Monitoring to Therapy Based on Flexible and Stretchable Electronics. <i>Advanced Functional Materials</i> , 2019 , 29, 1808247	15.6	207
38	Large scale and integrated platform for digital mass culture of anchorage dependent cells. <i>Nature Communications</i> , 2019 , 10, 4824	17.4	12
37	Flexible, sticky, and biodegradable wireless device for drug delivery to brain tumors. <i>Nature Communications</i> , 2019 , 10, 5205	17.4	91
36	Stretchable conductive nanocomposite based on alginate hydrogel and silver nanowires for wearable electronics. <i>APL Materials</i> , 2019 , 7, 031502	5.7	62
35	Wearable and Implantable Soft Bioelectronics Using Two-Dimensional Materials. <i>Accounts of Chemical Research</i> , 2019 , 52, 73-81	24.3	89
34	Solution-processed thin films of semiconducting carbon nanotubes and their application to soft electronics. <i>Nanotechnology</i> , 2019 , 30, 132001	3.4	26
33	High-performance stretchable conductive nanocomposites: materials, processes, and device applications. <i>Chemical Society Reviews</i> , 2019 , 48, 1566-1595	58.5	256
32	Deformable inorganic semiconductor. <i>Nature Materials</i> , 2018 , 17, 388-389	27	10
31	Extremely Vivid, Highly Transparent, and Ultrathin Quantum Dot Light-Emitting Diodes. <i>Advanced Materials</i> , 2018 , 30, 1703279	24	122
30	Nanomaterials for bioelectronics and integrated medical systems. <i>Korean Journal of Chemical Engineering</i> , 2018 , 35, 1-11	2.8	59
29	Highly conductive, stretchable and biocompatible Ag-Au core-sheath nanowire composite for wearable and implantable bioelectronics. <i>Nature Nanotechnology</i> , 2018 , 13, 1048-1056	28.7	440
28	Multifunctional Wearable System that Integrates Sweat-Based Sensing and Vital-Sign Monitoring to Estimate Pre-/Post-Exercise Glucose Levels. <i>Advanced Functional Materials</i> , 2018 , 28, 1805754	15.6	102
27	Wearable/disposable sweat-based glucose monitoring device with multistage transdermal drug delivery module. <i>Science Advances</i> , 2017 , 3, e1601314	14.3	596
26	Wearable Force Touch Sensor Array Using a Flexible and Transparent Electrode. <i>Advanced Functional Materials</i> , 2017 , 27, 1605286	15.6	121
25	Stretchable Electrode Based on Laterally Combed Carbon Nanotubes for Wearable Energy Harvesting and Storage Devices. <i>Advanced Functional Materials</i> , 2017 , 27, 1704353	15.6	80

24	Wearable Electrocardiogram Monitor Using Carbon Nanotube Electronics and Color-Tunable Organic Light-Emitting Diodes. <i>ACS Nano</i> , 2017 , 11, 10032-10041	16.7	137
23	Ultrathin Quantum Dot Display Integrated with Wearable Electronics. <i>Advanced Materials</i> , 2017 , 29, 17002-17007	17.4	129
22	Human eye-inspired soft optoelectronic device using high-density MoS-graphene curved image sensor array. <i>Nature Communications</i> , 2017 , 8, 1664	17.4	241
21	Ultra-Wideband Multi-Dye-Sensitized Upconverting Nanoparticles for Information Security Application. <i>Advanced Materials</i> , 2017 , 29, 16031-16036	24	118
20	Colloidal Synthesis of Uniform-Sized Molybdenum Disulfide Nanosheets for Wafer-Scale Flexible Nonvolatile Memory. <i>Advanced Materials</i> , 2016 , 28, 9326-9332	24	123
19	Stretchable and Transparent Biointerface Using Cell-Sheet/Graphene Hybrid for Electrophysiology and Therapy of Skeletal Muscle. <i>Advanced Functional Materials</i> , 2016 , 26, 3207-3217	15.6	103
18	A graphene-based electrochemical device with thermoresponsive microneedles for diabetes monitoring and therapy. <i>Nature Nanotechnology</i> , 2016 , 11, 566-572	28.7	1093
17	A wearable multiplexed silicon nonvolatile memory array using nanocrystal charge confinement. <i>Science Advances</i> , 2016 , 2, e1501101	14.3	113
16	Designed Assembly and Integration of Colloidal Nanocrystals for Device Applications. <i>Advanced Materials</i> , 2016 , 28, 1176-207	24	174
15	Cephalopod-Inspired Miniaturized Suction Cups for Smart Medical Skin. <i>Advanced Healthcare Materials</i> , 2016 , 5, 80-7	10.1	147
14	Stretchable carbon nanotube charge-trap floating-gate memory and logic devices for wearable electronics. <i>ACS Nano</i> , 2015 , 9, 5585-93	16.7	108
13	Bioresorbable Electronic Stent Integrated with Therapeutic Nanoparticles for Endovascular Diseases. <i>ACS Nano</i> , 2015 , 9, 5937-46	16.7	158
12	Wearable red-green-blue quantum dot light-emitting diode array using high-resolution intaglio transfer printing. <i>Nature Communications</i> , 2015 , 6, 7149	17.4	397
11	Wearable Fall Detector using Integrated Sensors and Energy Devices. <i>Scientific Reports</i> , 2015 , 5, 17081	4.9	58
10	Thermally Controlled, Patterned Graphene Transfer Printing for Transparent and Wearable Electronic/Optoelectronic System. <i>Advanced Functional Materials</i> , 2015 , 25, 7109-7118	15.6	134
9	Stretchable Heater Using Ligand-Exchanged Silver Nanowire Nanocomposite for Wearable Articular Thermotherapy. <i>ACS Nano</i> , 2015 , 9, 6626-33	16.7	365
8	An endoscope with integrated transparent bioelectronics and theranostic nanoparticles for colon cancer treatment. <i>Nature Communications</i> , 2015 , 6, 10059	17.4	122
7	Multifunctional cell-culture platform for aligned cell sheet monitoring, transfer printing, and therapy. <i>ACS Nano</i> , 2015 , 9, 2677-88	16.7	58

6	Fabric-based integrated energy devices for wearable activity monitors. <i>Advanced Materials</i> , 2014 , 26, 6329-34	24	261
5	A physically transient form of silicon electronics. <i>Science</i> , 2012 , 337, 1640-4	33.3	862
4	Epidermal electronics. <i>Science</i> , 2011 , 333, 838-43	33.3	3216
3	Bio-Inspired Artificial Vision and Neuromorphic Image Processing Devices. <i>Advanced Materials Technologies</i> , 2100144	6.8	12
2	Soft Implantable Bioelectronics 1528-1540		4
1	Material and Design Strategies for Stretchable Electroluminescent Devices. <i>Nanoscale Horizons</i> ,	10.8	1