

# Gi Doo Cha

## 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.

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	Epidermal electronics. <i>Science</i> , <b>2011</b> , 333, 838-43	33.3	3216
58	A graphene-based electrochemical device with thermoresponsive microneedles for diabetes monitoring and therapy. <i>Nature Nanotechnology</i> , <b>2016</b> , 11, 566-572	28.7	1093
57	A physically transient form of silicon electronics. <i>Science</i> , <b>2012</b> , 337, 1640-4	33.3	862
56	Wearable/disposable sweat-based glucose monitoring device with multistage transdermal drug delivery module. <i>Science Advances</i> , <b>2017</b> , 3, e1601314	14.3	596
55	Highly conductive, stretchable and biocompatible Ag-Au core-sheath nanowire composite for wearable and implantable bioelectronics. <i>Nature Nanotechnology</i> , <b>2018</b> , 13, 1048-1056	28.7	440
54	Wearable red-green-blue quantum dot light-emitting diode array using high-resolution intaglio transfer printing. <i>Nature Communications</i> , <b>2015</b> , 6, 7149	17.4	397
53	Stretchable Heater Using Ligand-Exchanged Silver Nanowire Nanocomposite for Wearable Articular Thermotherapy. <i>ACS Nano</i> , <b>2015</b> , 9, 6626-33	16.7	365
52	Fabric-based integrated energy devices for wearable activity monitors. <i>Advanced Materials</i> , <b>2014</b> , 26, 6329-34	24	261
51	High-performance stretchable conductive nanocomposites: materials, processes, and device applications. <i>Chemical Society Reviews</i> , <b>2019</b> , 48, 1566-1595	58.5	256
50	Human eye-inspired soft optoelectronic device using high-density MoS-graphene curved image sensor array. <i>Nature Communications</i> , <b>2017</b> , 8, 1664	17.4	241
49	Wearable and Implantable Devices for Cardiovascular Healthcare: from Monitoring to Therapy Based on Flexible and Stretchable Electronics. <i>Advanced Functional Materials</i> , <b>2019</b> , 29, 1808247	15.6	207
48	Designed Assembly and Integration of Colloidal Nanocrystals for Device Applications. <i>Advanced Materials</i> , <b>2016</b> , 28, 1176-207	24	174
47	Bioresorbable Electronic Stent Integrated with Therapeutic Nanoparticles for Endovascular Diseases. <i>ACS Nano</i> , <b>2015</b> , 9, 5937-46	16.7	158
46	Material-Based Approaches for the Fabrication of Stretchable Electronics. <i>Advanced Materials</i> , <b>2020</b> , 32, e1902743	24	149
45	Cephalopod-Inspired Miniaturized Suction Cups for Smart Medical Skin. <i>Advanced Healthcare Materials</i> , <b>2016</b> , 5, 80-7	10.1	147
44	Wearable Electrocardiogram Monitor Using Carbon Nanotube Electronics and Color-Tunable Organic Light-Emitting Diodes. <i>ACS Nano</i> , <b>2017</b> , 11, 10032-10041	16.7	137
43	Thermally Controlled, Patterned Graphene Transfer Printing for Transparent and Wearable Electronic/Optoelectronic System. <i>Advanced Functional Materials</i> , <b>2015</b> , 25, 7109-7118	15.6	134

42	Ultrathin Quantum Dot Display Integrated with Wearable Electronics. <i>Advanced Materials</i> , <b>2017</b> , 29, 1700217	129
41	Colloidal Synthesis of Uniform-Sized Molybdenum Disulfide Nanosheets for Wafer-Scale Flexible Nonvolatile Memory. <i>Advanced Materials</i> , <b>2016</b> , 28, 9326-9332	123
40	Extremely Vivid, Highly Transparent, and Ultrathin Quantum Dot Light-Emitting Diodes. <i>Advanced Materials</i> , <b>2018</b> , 30, 1703279	122
39	An endoscope with integrated transparent bioelectronics and theranostic nanoparticles for colon cancer treatment. <i>Nature Communications</i> , <b>2015</b> , 6, 10059	122
38	Wearable Force Touch Sensor Array Using a Flexible and Transparent Electrode. <i>Advanced Functional Materials</i> , <b>2017</b> , 27, 1605286	121
37	Ultra-Wideband Multi-Dye-Sensitized Upconverting Nanoparticles for Information Security Application. <i>Advanced Materials</i> , <b>2017</b> , 29, 1603169	118
36	A wearable multiplexed silicon nonvolatile memory array using nanocrystal charge confinement. <i>Science Advances</i> , <b>2016</b> , 2, e1501101	113
35	Stretchable carbon nanotube charge-trap floating-gate memory and logic devices for wearable electronics. <i>ACS Nano</i> , <b>2015</b> , 9, 5585-93	108
34	Stretchable and Transparent Biointerface Using Cell-Sheet/Graphene Hybrid for Electrophysiology and Therapy of Skeletal Muscle. <i>Advanced Functional Materials</i> , <b>2016</b> , 26, 3207-3217	103
33	Multifunctional Wearable System that Integrates Sweat-Based Sensing and Vital-Sign Monitoring to Estimate Pre-/Post-Exercise Glucose Levels. <i>Advanced Functional Materials</i> , <b>2018</b> , 28, 1805754	102
32	Flexible, sticky, and biodegradable wireless device for drug delivery to brain tumors. <i>Nature Communications</i> , <b>2019</b> , 10, 5205	91
31	Wearable and Implantable Soft Bioelectronics Using Two-Dimensional Materials. <i>Accounts of Chemical Research</i> , <b>2019</b> , 52, 73-81	89
30	Stretchable Electrode Based on Laterally Combed Carbon Nanotubes for Wearable Energy Harvesting and Storage Devices. <i>Advanced Functional Materials</i> , <b>2017</b> , 27, 1704353	80
29	Stretchable conductive nanocomposite based on alginate hydrogel and silver nanowires for wearable electronics. <i>APL Materials</i> , <b>2019</b> , 7, 031502	62
28	Nanomaterials for bioelectronics and integrated medical systems. <i>Korean Journal of Chemical Engineering</i> , <b>2018</b> , 35, 1-11	59
27	Wearable Fall Detector using Integrated Sensors and Energy Devices. <i>Scientific Reports</i> , <b>2015</b> , 5, 17081	58
26	Multifunctional cell-culture platform for aligned cell sheet monitoring, transfer printing, and therapy. <i>ACS Nano</i> , <b>2015</b> , 9, 2677-88	58
25	Tissue-like skin-device interface for wearable bioelectronics by using ultrasoft, mass-permeable, and low-impedance hydrogels. <i>Science Advances</i> , <b>2021</b> , 7,	56

24	Highly conductive and elastic nanomembrane for skin electronics. <i>Science</i> , <b>2021</b> , 373, 1022-1026	33.3	41
23	Soft implantable drug delivery device integrated wirelessly with wearable devices to treat fatal seizures. <i>Science Advances</i> , <b>2021</b> , 7,	14.3	36
22	Material Design and Fabrication Strategies for Stretchable Metallic Nanocomposites. <i>Small</i> , <b>2020</b> , 16, e1906270	11	35
21	Materials engineering, processing, and device application of hydrogel nanocomposites. <i>Nanoscale</i> , <b>2020</b> , 12, 10456-10473	7.7	30
20	Wearable and Implantable Soft Bioelectronics: Device Designs and Material Strategies. <i>Annual Review of Chemical and Biomolecular Engineering</i> , <b>2021</b> , 12, 359-391	8.9	28
19	Solution-processed thin films of semiconducting carbon nanotubes and their application to soft electronics. <i>Nanotechnology</i> , <b>2019</b> , 30, 132001	3.4	26
18	Advances in drug delivery technology for the treatment of glioblastoma multiforme. <i>Journal of Controlled Release</i> , <b>2020</b> , 328, 350-367	11.7	25
17	Stretchable Low-Impedance Nanocomposite Comprised of Ag/Au Core/Shell Nanowires and Pt Black for Epicardial Recording and Stimulation. <i>Advanced Materials Technologies</i> , <b>2020</b> , 5, 1900768	6.8	24
16	Sensors in heart-on-a-chip: A review on recent progress. <i>Talanta</i> , <b>2020</b> , 219, 121269	6.2	16
15	Localized Delivery of Theranostic Nanoparticles and High-Energy Photons using Microneedles-on-Bioelectronics. <i>Advanced Materials</i> , <b>2021</b> , 33, e2100425	24	15
14	Functionalized Elastomers for Intrinsically Soft and Biointegrated Electronics. <i>Advanced Healthcare Materials</i> , <b>2021</b> , 10, e2002105	10.1	13
13	Large scale and integrated platform for digital mass culture of anchorage dependent cells. <i>Nature Communications</i> , <b>2019</b> , 10, 4824	17.4	12
12	Bio-Inspired Artificial Vision and Neuromorphic Image Processing Devices. <i>Advanced Materials Technologies</i> , 2100144	6.8	12
11	Soft Bioelectronics Based on Nanomaterials.. <i>Chemical Reviews</i> , <b>2021</b> ,	68.1	11
10	Deformable inorganic semiconductor. <i>Nature Materials</i> , <b>2018</b> , 17, 388-389	27	10
9	Wireless Power Transfer and Telemetry for Implantable Bioelectronics. <i>Advanced Healthcare Materials</i> , <b>2021</b> , 10, e2100614	10.1	10
8	Nanoscale Materials and Deformable Device Designs for Bioinspired and Biointegrated Electronics. <i>Accounts of Materials Research</i> , <b>2021</b> , 2, 266-281	7.5	7
7	Self-assembly for electronics. <i>MRS Bulletin</i> , <b>2020</b> , 45, 807-814	3.2	6

6	Soft Implantable Bioelectronics1528-1540		4
5	Adaptive self-organization of nanomaterials enables strain-insensitive resistance of stretchable metallic nanocomposites.. <i>Advanced Materials</i> , <b>2022</b> , e2200980	24	3
4	Stretchable conductive nanocomposites and their applications in wearable devices. <i>Applied Physics Reviews</i> , <b>2022</b> , 9, 021312	17.3	3
3	Flexible and biodegradable electronic implants for diagnosis and treatment of brain diseases. <i>Current Opinion in Biotechnology</i> , <b>2021</b> , 72, 13-21	11.4	1
2	Material and Design Strategies for Stretchable Electroluminescent Devices. <i>Nanoscale Horizons</i> ,	10.8	1
1	Bio-inspired electronic eyes and synaptic photodetectors for mobile artificial vision <b>2022</b> , 1-1		0