

Gi Doo Cha

List of Publications by Year in descending order

Source: <https://exaly.com/author-pdf/4679824/publications.pdf>

Version: 2024-02-01

65
papers

15,228
citations

61984

43
h-index

114465

63
g-index

65
all docs

65
docs citations

65
times ranked

16727
citing authors

#	ARTICLE	IF	CITATIONS
1	Bio-Inspired Artificial Vision and Neuromorphic Image Processing Devices. <i>Advanced Materials Technologies</i> , 2022, 7, 2100144.	5.8	53
2	Multifunctional Injectable Hydrogel for <i>In Vivo</i> Diagnostic and Therapeutic Applications. <i>ACS Nano</i> , 2022, 16, 554-567.	14.6	49
3	Bio-Inspired Electronic Eyes and Synaptic Photodetectors for Mobile Artificial Vision. , 2022, 1, 76-87.		8
4	Toughness and elasticity from phase separation. <i>Nature Materials</i> , 2022, 21, 266-268.	27.5	2
5	Adaptive Self-Organization of Nanomaterials Enables Strain-Insensitive Resistance of Stretchable Metallic Nanocomposites. <i>Advanced Materials</i> , 2022, 34, e2200980.	21.0	30
6	Soft Bioelectronics Based on Nanomaterials. <i>Chemical Reviews</i> , 2022, 122, 5068-5143.	47.7	72
7	Materials and design strategies for stretchable electroluminescent devices. <i>Nanoscale Horizons</i> , 2022, 7, 801-821.	8.0	22
8	Stretchable conductive nanocomposites and their applications in wearable devices. <i>Applied Physics Reviews</i> , 2022, 9, .	11.3	27
9	Wide-range robust wireless power transfer using heterogeneously coupled and flippable neutrals in parity-time symmetry. <i>Science Advances</i> , 2022, 8, .	10.3	13
10	Facile and Scalable Synthesis of Whiskered Gold Nanosheets for Stretchable, Conductive, and Biocompatible Nanocomposites. <i>ACS Nano</i> , 2022, 16, 10431-10442.	14.6	14
11	Stretchable colour-sensitive quantum dot nanocomposites for shape-tunable multiplexed phototransistor arrays. <i>Nature Nanotechnology</i> , 2022, 17, 849-856.	31.5	42
12	Soft implantable drug delivery device integrated wirelessly with wearable devices to treat fatal seizures. <i>Science Advances</i> , 2021, 7, .	10.3	107
13	Functionalized Elastomers for Intrinsically Soft and Biointegrated Electronics. <i>Advanced Healthcare Materials</i> , 2021, 10, e2002105.	7.6	36
14	Nanoscale Materials and Deformable Device Designs for Bioinspired and Biointegrated Electronics. <i>Accounts of Materials Research</i> , 2021, 2, 266-281.	11.7	18
15	Localized Delivery of Theranostic Nanoparticles and High-Energy Photons using Microneedles in Bioelectronics. <i>Advanced Materials</i> , 2021, 33, e2100425.	21.0	43
16	Tissue-like skin-device interface for wearable bioelectronics by using ultrasoft, mass-permeable, and low-impedance hydrogels. <i>Science Advances</i> , 2021, 7, .	10.3	144
17	Wireless Power Transfer and Telemetry for Implantable Bioelectronics. <i>Advanced Healthcare Materials</i> , 2021, 10, e2100614.	7.6	41
18	Wearable and Implantable Soft Bioelectronics: Device Designs and Material Strategies. <i>Annual Review of Chemical and Biomolecular Engineering</i> , 2021, 12, 359-391.	6.8	81

#	ARTICLE	IF	CITATIONS
19	Highly conductive and elastic nanomembrane for skin electronics. <i>Science</i> , 2021, 373, 1022-1026.	12.6	186
20	Soft Implantable Bioelectronics. , 2021, 3, 1528-1540.		24
21	Flexible and biodegradable electronic implants for diagnosis and treatment of brain diseases. <i>Current Opinion in Biotechnology</i> , 2021, 72, 13-21.	6.6	16
22	Material-Based Approaches for the Fabrication of Stretchable Electronics. <i>Advanced Materials</i> , 2020, 32, e1902743.	21.0	243
23	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.	5.8	43
24	Advances in drug delivery technology for the treatment of glioblastoma multiforme. <i>Journal of Controlled Release</i> , 2020, 328, 350-367.	9.9	58
25	Self-assembly for electronics. <i>MRS Bulletin</i> , 2020, 45, 807-814.	3.5	10
26	Sensors in heart-on-a-chip: A review on recent progress. <i>Talanta</i> , 2020, 219, 121269.	5.5	34
27	Material Design and Fabrication Strategies for Stretchable Metallic Nanocomposites. <i>Small</i> , 2020, 16, e1906270.	10.0	55
28	Materials engineering, processing, and device application of hydrogel nanocomposites. <i>Nanoscale</i> , 2020, 12, 10456-10473.	5.6	52
29	Large scale and integrated platform for digital mass culture of anchorage dependent cells. <i>Nature Communications</i> , 2019, 10, 4824.	12.8	17
30	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.	14.9	345
31	Flexible, sticky, and biodegradable wireless device for drug delivery to brain tumors. <i>Nature Communications</i> , 2019, 10, 5205.	12.8	148
32	Stretchable conductive nanocomposite based on alginate hydrogel and silver nanowires for wearable electronics. <i>APL Materials</i> , 2019, 7, .	5.1	97
33	Wearable and Implantable Soft Bioelectronics Using Two-Dimensional Materials. <i>Accounts of Chemical Research</i> , 2019, 52, 73-81.	15.6	143
34	Solution-processed thin films of semiconducting carbon nanotubes and their application to soft electronics. <i>Nanotechnology</i> , 2019, 30, 132001.	2.6	32
35	High-performance stretchable conductive nanocomposites: materials, processes, and device applications. <i>Chemical Society Reviews</i> , 2019, 48, 1566-1595.	38.1	400
36	Deformable inorganic semiconductor. <i>Nature Materials</i> , 2018, 17, 388-389.	27.5	16

#	ARTICLE	IF	CITATIONS
37	Extremely Vivid, Highly Transparent, and Ultrathin Quantum Dot Light-Emitting Diodes. <i>Advanced Materials</i> , 2018, 30, 1703279.	21.0	157
38	Nanomaterials for bioelectronics and integrated medical systems. <i>Korean Journal of Chemical Engineering</i> , 2018, 35, 1-11.	2.7	76
39	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.	14.9	143
40	Highly conductive, stretchable and biocompatible Ag@Au core-shell nanowire composite for wearable and implantable bioelectronics. <i>Nature Nanotechnology</i> , 2018, 13, 1048-1056.	31.5	695
41	Wearable/disposable sweat-based glucose monitoring device with multistage transdermal drug delivery module. <i>Science Advances</i> , 2017, 3, e1601314.	10.3	836
42	The quest for miniaturized soft bioelectronic devices. <i>Nature Biomedical Engineering</i> , 2017, 1, .	22.5	103
43	Wearable Force Touch Sensor Array Using a Flexible and Transparent Electrode. <i>Advanced Functional Materials</i> , 2017, 27, 1605286.	14.9	151
44	Stretchable Electrode Based on Laterally Combed Carbon Nanotubes for Wearable Energy Harvesting and Storage Devices. <i>Advanced Functional Materials</i> , 2017, 27, 1704353.	14.9	110
45	Wearable Electrocardiogram Monitor Using Carbon Nanotube Electronics and Color-Tunable Organic Light-Emitting Diodes. <i>ACS Nano</i> , 2017, 11, 10032-10041.	14.6	197
46	Ultrathin Quantum Dot Display Integrated with Wearable Electronics. <i>Advanced Materials</i> , 2017, 29, 1700217.	21.0	187
47	Human eye-inspired soft optoelectronic device using high-density MoS ₂ -graphene curved image sensor array. <i>Nature Communications</i> , 2017, 8, 1664.	12.8	381
48	Ultra-Wideband Multi-Dye-Sensitized Upconverting Nanoparticles for Information Security Application. <i>Advanced Materials</i> , 2017, 29, 1603169.	21.0	153
49	Designed Assembly and Integration of Colloidal Nanocrystals for Device Applications. <i>Advanced Materials</i> , 2016, 28, 1176-1207.	21.0	211
50	Cephalopod-Inspired Miniaturized Suction Cups for Smart Medical Skin. <i>Advanced Healthcare Materials</i> , 2016, 5, 80-87.	7.6	175
51	Colloidal Synthesis of Uniform-Sized Molybdenum Disulfide Nanosheets for Wafer-Scale Flexible Nonvolatile Memory. <i>Advanced Materials</i> , 2016, 28, 9326-9332.	21.0	151
52	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.	14.9	123
53	A graphene-based electrochemical device with thermoresponsive microneedles for diabetes monitoring and therapy. <i>Nature Nanotechnology</i> , 2016, 11, 566-572.	31.5	1,394
54	A wearable multiplexed silicon nonvolatile memory array using nanocrystal charge confinement. <i>Science Advances</i> , 2016, 2, e1501101.	10.3	139

#	ARTICLE	IF	CITATIONS
55	Wearable Fall Detector using Integrated Sensors and Energy Devices. <i>Scientific Reports</i> , 2015, 5, 17081.	3.3	74
56	Thermally Controlled, Patterned Graphene Transfer Printing for Transparent and Wearable Electronic/Optoelectronic System. <i>Advanced Functional Materials</i> , 2015, 25, 7109-7118.	14.9	155
57	Stretchable Heater Using Ligand-Exchanged Silver Nanowire Nanocomposite for Wearable Articular Thermotherapy. <i>ACS Nano</i> , 2015, 9, 6626-6633.	14.6	462
58	An endoscope with integrated transparent bioelectronics and theranostic nanoparticles for colon cancer treatment. <i>Nature Communications</i> , 2015, 6, 10059.	12.8	159
59	Multifunctional Cell-Culture Platform for Aligned Cell Sheet Monitoring, Transfer Printing, and Therapy. <i>ACS Nano</i> , 2015, 9, 2677-2688.	14.6	72
60	Stretchable Carbon Nanotube Charge-Trap Floating-Gate Memory and Logic Devices for Wearable Electronics. <i>ACS Nano</i> , 2015, 9, 5585-5593.	14.6	124
61	Bioresorbable Electronic Stent Integrated with Therapeutic Nanoparticles for Endovascular Diseases. <i>ACS Nano</i> , 2015, 9, 5937-5946.	14.6	203
62	Wearable red-green-blue quantum dot light-emitting diode array using high-resolution intaglio transfer printing. <i>Nature Communications</i> , 2015, 6, 7149.	12.8	536
63	Fabrication-Based Integrated Energy Devices for Wearable Activity Monitors. <i>Advanced Materials</i> , 2014, 26, 6329-6334.	21.0	311
64	A Physically Transient Form of Silicon Electronics. <i>Science</i> , 2012, 337, 1640-1644.	12.6	1,085
65	Epidermal Electronics. <i>Science</i> , 2011, 333, 838-843.	12.6	3,944