

Enming Song

List of Publications by Year in descending order

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Version: 2024-02-01

31
papers

2,097
citations

331259

21
h-index

433756

31
g-index

32
all docs

32
docs citations

32
times ranked

2710
citing authors

#	ARTICLE	IF	CITATIONS
1	Materials for flexible bioelectronic systems as chronic neural interfaces. <i>Nature Materials</i> , 2020, 19, 590-603.	13.3	277
2	Capacitively coupled arrays of multiplexed flexible silicon transistors for long-term cardiac electrophysiology. <i>Nature Biomedical Engineering</i> , 2017, 1, .	11.6	210
3	Ultrathin, transferred layers of thermally grown silicon dioxide as biofluid barriers for biointegrated flexible electronic systems. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2016, 113, 11682-11687.	3.3	175
4	Catheter-integrated soft multilayer electronic arrays for multiplexed sensing and actuation during cardiac surgery. <i>Nature Biomedical Engineering</i> , 2020, 4, 997-1009.	11.6	175
5	Emerging Modalities and Implantable Technologies for Neuromodulation. <i>Cell</i> , 2020, 181, 115-135.	13.5	152
6	Recent Advances in Materials, Devices, and Systems for Neural Interfaces. <i>Advanced Materials</i> , 2018, 30, e1800534.	11.1	148
7	Long-Lived, Transferred Crystalline Silicon Carbide Nanomembranes for Implantable Flexible Electronics. <i>ACS Nano</i> , 2019, 13, 11572-11581.	7.3	101
8	Materials and processing approaches for foundry-compatible transient electronics. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2017, 114, E5522-E5529.	3.3	93
9	Dissolution of Monocrystalline Silicon Nanomembranes and Their Use as Encapsulation Layers and Electrical Interfaces in Water-Soluble Electronics. <i>ACS Nano</i> , 2017, 11, 12562-12572.	7.3	82
10	Flexible electronic/optoelectronic microsystems with scalable designs for chronic biointegration. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2019, 116, 15398-15406.	3.3	66
11	Miniaturized electromechanical devices for the characterization of the biomechanics of deep tissue. <i>Nature Biomedical Engineering</i> , 2021, 5, 759-771.	11.6	65
12	Thin, Transferred Layers of Silicon Dioxide and Silicon Nitride as Water and Ion Barriers for Implantable Flexible Electronic Systems. <i>Advanced Electronic Materials</i> , 2017, 3, 1700077.	2.6	61
13	Ultrathin Trilayer Assemblies as Long-Lived Barriers against Water and Ion Penetration in Flexible Bioelectronic Systems. <i>ACS Nano</i> , 2018, 12, 10317-10326.	7.3	57
14	Conductively coupled flexible silicon electronic systems for chronic neural electrophysiology. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2018, 115, E9542-E9549.	3.3	50
15	Transferred, Ultrathin Oxide Bilayers as Biofluid Barriers for Flexible Electronic Implants. <i>Advanced Functional Materials</i> , 2018, 28, 1702284.	7.8	49
16	Kinetics and Chemistry of Hydrolysis of Ultrathin, Thermally Grown Layers of Silicon Oxide as Biofluid Barriers in Flexible Electronic Systems. <i>ACS Applied Materials & Interfaces</i> , 2017, 9, 42633-42638.	4.0	45
17	Implantable Electronic Medicine Enabled by Bioresorbable Microneedles for Wireless Electrotherapy and Drug Delivery. <i>Nano Letters</i> , 2022, 22, 5944-5953.	4.5	36
18	Bendable Photodetector on Fibers Wrapped with Flexible Ultrathin Single Crystalline Silicon Nanomembranes. <i>ACS Applied Materials & Interfaces</i> , 2017, 9, 12171-12175.	4.0	34

#	ARTICLE	IF	CITATIONS
19	High-Temperature-Triggered Thermally Degradable Electronics Based on Flexible Silicon Nanomembranes. <i>Advanced Functional Materials</i> , 2018, 28, 1801448.	7.8	34
20	Stretchable Sweat-Activated Battery in Skin-Integrated Electronics for Continuous Wireless Sweat Monitoring. <i>Advanced Science</i> , 2022, 9, e2104635.	5.6	29
21	Barrier materials for flexible bioelectronic implants with chronic stability—Current approaches and future directions. <i>APL Materials</i> , 2019, 7, 050902.	2.2	27
22	Silicon nanomembrane phototransistor flipped with multifunctional sensors toward smart digital dust. <i>Science Advances</i> , 2020, 6, eaaz6511.	4.7	24
23	Transient, Implantable, Ultrathin Biofuel Cells Enabled by Laser-Induced Graphene and Gold Nanoparticles Composite. <i>Nano Letters</i> , 2022, 22, 3447-3456.	4.5	19
24	Flexible Transient Phototransistors by Use of Wafer-Compatible Transferred Silicon Nanomembranes. <i>Small</i> , 2018, 14, e1802985.	5.2	17
25	Ultrathin, High Capacitance Capping Layers for Silicon Electronics with Conductive Interconnects in Flexible, Long-Lived Bioimplants. <i>Advanced Materials Technologies</i> , 2020, 5, 1900800.	3.0	17
26	Stability of MOSFET-Based Electronic Components in Wearable and Implantable Systems. <i>IEEE Transactions on Electron Devices</i> , 2017, 64, 3443-3451.	1.6	16
27	Schottky contact on ultra-thin silicon nanomembranes under light illumination. <i>Nanotechnology</i> , 2014, 25, 485201.	1.3	12
28	Thickness-Dependent Electronic Transport in Ultrathin, Single Crystalline Silicon Nanomembranes. <i>Advanced Electronic Materials</i> , 2019, 5, 1900232.	2.6	10
29	Bioresorbable Multilayer Photonic Cavities as Temporary Implants for Tether-Free Measurements of Regional Tissue Temperatures. <i>BME Frontiers</i> , 2021, 2021, .	2.2	7
30	Recent advances in microsystem approaches for mechanical characterization of soft biological tissues. <i>Microsystems and Nanoengineering</i> , 2022, 8, .	3.4	6
31	Transient Electronics: High-Temperature-Triggered Thermally Degradable Electronics Based on Flexible Silicon Nanomembranes (<i>Adv. Funct. Mater.</i> 45/2018). <i>Advanced Functional Materials</i> , 2018, 28, 1870323.	7.8	3