

Lan Yin

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.

56
papers

2,257
citations

24
h-index

47
g-index

63
ext. papers

2,783
ext. citations

11.1
avg, IF

4.87
L-index

#	Paper	IF	Citations
56	Dissolvable Metals for Transient Electronics. <i>Advanced Functional Materials</i> , 2014 , 24, 645-658	15.6	290
55	Experimental and Theoretical Studies of Serpentine Microstructures Bonded To Prestrained Elastomers for Stretchable Electronics. <i>Advanced Functional Materials</i> , 2014 , 24, 2028-2037	15.6	220
54	Materials, designs, and operational characteristics for fully biodegradable primary batteries. <i>Advanced Materials</i> , 2014 , 26, 3879-84	24	211
53	25th anniversary article: materials for high-performance biodegradable semiconductor devices. <i>Advanced Materials</i> , 2014 , 26, 1992-2000	24	130
52	Dissolution chemistry and biocompatibility of silicon- and germanium-based semiconductors for transient electronics. <i>ACS Applied Materials & Interfaces</i> , 2015 , 7, 9297-305	9.5	113
51	Wireless optoelectronic photometers for monitoring neuronal dynamics in the deep brain. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2018 , 115, E1374-E1383	11.5	113
50	Recent progress on biodegradable materials and transient electronics. <i>Bioactive Materials</i> , 2018 , 3, 322-337	11.5	98
49	Mechanisms for hydrolysis of silicon nanomembranes as used in bioresorbable electronics. <i>Advanced Materials</i> , 2015 , 27, 1857-64	24	77
48	A Fully Biodegradable Battery for Self-Powered Transient Implants. <i>Small</i> , 2018 , 14, e1800994	11	69
47	Biodegradable Monocrystalline Silicon Photovoltaic Microcells as Power Supplies for Transient Biomedical Implants. <i>Advanced Energy Materials</i> , 2018 , 8, 1703035	21.8	63
46	An Analytical Model of Reactive Diffusion for Transient Electronics. <i>Advanced Functional Materials</i> , 2013 , 23, 3106-3114	15.6	63
45	A flexible and physically transient electrochemical sensor for real-time wireless nitric oxide monitoring. <i>Nature Communications</i> , 2020 , 11, 3207	17.4	61
44	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	16.7	61
43	Implantable and Biodegradable Poly(L-lactic acid) Fibers for Optical Neural Interfaces. <i>Advanced Optical Materials</i> , 2018 , 6, 1700941	8.1	58
42	Bioresorbable photonic devices for the spectroscopic characterization of physiological status and neural activity. <i>Nature Biomedical Engineering</i> , 2019 , 3, 644-654	19	58
41	Microscale optoelectronic infrared-to-visible upconversion devices and their use as injectable light sources. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2018 , 115, 6632-6637	11.5	51
40	Recent Advances in Biointegrated Optoelectronic Devices. <i>Advanced Materials</i> , 2018 , 30, e1800156	24	49

39	Materials Strategies and Device Architectures of Emerging Power Supply Devices for Implantable Bioelectronics. <i>Small</i> , 2020 , 16, e1902827	11	46
38	Materials and Devices for Biodegradable and Soft Biomedical Electronics. <i>Materials</i> , 2018 , 11,	3.5	38
37	Materials and Wireless Microfluidic Systems for Electronics Capable of Chemical Dissolution on Demand. <i>Advanced Functional Materials</i> , 2015 , 25, 1338-1343	15.6	34
36	Non-Magnetic Injectable Implant for Magnetic Field-Driven Thermochemotherapy and Dual Stimuli-Responsive Drug Delivery: Transformable Liquid Metal Hybrid Platform for Cancer Theranostics. <i>Small</i> , 2019 , 15, e1900511	11	31
35	A wireless, implantable optoelectrochemical probe for optogenetic stimulation and dopamine detection. <i>Microsystems and Nanoengineering</i> , 2020 , 6, 64	7.7	29
34	Solution processed lead-free cesium titanium halide perovskites and their structural, thermal and optical characteristics. <i>Journal of Materials Chemistry C</i> , 2020 , 8, 1591-1597	7.1	28
33	A fully biodegradable and self-electrified device for neuroregenerative medicine. <i>Science Advances</i> , 2020 , 6,	14.3	26
32	Materials and fabrication sequences for water soluble silicon integrated circuits at the 90 nm node. <i>Applied Physics Letters</i> , 2015 , 106, 014105	3.4	24
31	Heterogeneous Integration of Microscale GaN Light-Emitting Diodes and Their Electrical, Optical, and Thermal Characteristics on Flexible Substrates. <i>Advanced Materials Technologies</i> , 2018 , 3, 1700239	6.8	23
30	Wirelessly Operated, Implantable Optoelectronic Probes for Optogenetics in Freely Moving Animals. <i>IEEE Transactions on Electron Devices</i> , 2019 , 66, 785-792	2.9	21
29	Effects of Residual Elements Arsenic, Antimony, and Tin on Surface Hot Shortness. <i>Metallurgical and Materials Transactions B: Process Metallurgy and Materials Processing Science</i> , 2011 , 42, 1031-1043	2.5	20
28	The emergence of transient electronic devices. <i>MRS Bulletin</i> , 2020 , 45, 87-95	3.2	16
27	High Performance, Biocompatible Dielectric Thin-Film Optical Filters Integrated with Flexible Substrates and Microscale Optoelectronic Devices. <i>Advanced Optical Materials</i> , 2018 , 6, 1800146	8.1	16
26	Soft and transient magnesium plasmonics for environmental and biomedical sensing. <i>Nano Research</i> , 2018 , 11, 4390-4400	10	13
25	3D electronic and photonic structures as active biological interfaces. <i>Information Materials</i> , 2020 , 2, 527-552	23.1	12
24	Effects of Nickel on the Oxide/Metal Interface Morphology and Oxidation Rate During High-Temperature Oxidation of Fe-Ti Alloys. <i>Metallurgical and Materials Transactions B: Process Metallurgy and Materials Processing Science</i> , 2010 , 41, 598-611	2.5	11
23	Geometrical and Chemical-Dependent Hydrolysis Mechanisms of Silicon Nanomembranes for Biodegradable Electronics. <i>ACS Applied Materials & Interfaces</i> , 2019 , 11, 18013-18023	9.5	10
22	Effects of Small Additions of Tin on High-Temperature Oxidation of Fe-Cu-Sn Alloys for Surface Hot Shortness. <i>Metallurgical and Materials Transactions B: Process Metallurgy and Materials Processing Science</i> , 2010 , 41, 1095-1107	2.5	9

21	Green Light-Based Photobiomodulation with an Implantable and Biodegradable Fiber for Bone Regeneration. <i>Small Methods</i> , 2020 , 4, 1900879	12.8	7
20	Transfer-printed, tandem microscale light-emitting diodes for full-color displays. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2021 , 118,	11.5	7
19	Electrochemically triggered degradation of silicon membranes for smart on-demand transient electronic devices. <i>Nanotechnology</i> , 2019 , 30, 394002	3.4	6
18	Colocalized, bidirectional optogenetic modulations in freely behaving mice with a wireless dual-color optoelectronic probe.. <i>Nature Communications</i> , 2022 , 13, 839	17.4	6
17	Biodegradable Flexible Electronic Device with Controlled Drug Release for Cancer Treatment. <i>ACS Applied Materials & Interfaces</i> , 2021 , 13, 21067-21075	9.5	5
16	Biocompatible and Biodegradable Light-Emitting Materials and Devices. <i>Advanced Materials Technologies</i> , 2100006	6.8	5
15	The Effects of Nickel/Tin Ratio on Cu Induced Surface Hot Shortness in Fe. <i>Oxidation of Metals</i> , 2011 , 76, 367-383	1.6	4
14	Transient Electronics: Dissolvable Metals for Transient Electronics (Adv. Funct. Mater. 5/2014). <i>Advanced Functional Materials</i> , 2014 , 24, 644-644	15.6	3
13	An Optoelectronic thermometer based on microscale infrared-to-visible conversion devices.. <i>Light: Science and Applications</i> , 2022 , 11, 130	16.7	3
12	Green Light-Based Photobiomodulation with an Implantable and Biodegradable Fiber for Bone Regeneration (Small Methods 7/2020). <i>Small Methods</i> , 2020 , 4, 2070025	12.8	2
11	Silicon Nanomembranes: Mechanisms for Hydrolysis of Silicon Nanomembranes as Used in Bioresorbable Electronics (Adv. Mater. 11/2015). <i>Advanced Materials</i> , 2015 , 27, 1856-1856	24	2
10	A dual-channel optogenetic stimulator selectively modulates distinct defensive behaviors.. <i>IScience</i> , 2022 , 25, 103681	6.1	2
9	Biodegradable Batteries: A Fully Biodegradable Battery for Self-Powered Transient Implants (Small 28/2018). <i>Small</i> , 2018 , 14, 1870129	11	1
8	Thin-Film Optical Filters: High Performance, Biocompatible Dielectric Thin-Film Optical Filters Integrated with Flexible Substrates and Microscale Optoelectronic Devices (Advanced Optical Materials 15/2018). <i>Advanced Optical Materials</i> , 2018 , 6, 1870061	8.1	1
7	Nonconventional Biosensors Based on Nanomembrane Materials 2017 , 241-257		1
6	Optoelectronic sensing of biophysical and biochemical signals based on photon recycling of a micro-LED. <i>Nano Research</i> , 2021 , 14, 3208-3213	10	1
5	Emerging Applications of Optical Fiber-Based Devices for Brain Research. <i>Advanced Fiber Materials</i> , 1	10.9	1
4	Green Electronics. <i>Advanced Sustainable Systems</i> , 2022 , 6, 2100333	5.9	1

3	Novel implantable devices delivering electrical cues for tissue regeneration and functional restoration. <i>Medicine in Novel Technology and Devices</i> , 2022 , 16, 100146	2.1	0
2	Micro-LEDs: Heterogeneous Integration of Microscale GaN Light-Emitting Diodes and Their Electrical, Optical, and Thermal Characteristics on Flexible Substrates (Adv. Mater. Technol. 1/2018). <i>Advanced Materials Technologies</i> , 2018 , 3, 1870005	6.8	
1	Special Issue of Advanced Materials Technologies on Green Electronics. <i>Advanced Materials Technologies</i> , 2022 , 7, 2101220	6.8	