Wen Li

List of Publications by Year
in descending order

76 papers	2,131 citations	331670 21 h-index	243625 44 g-index
76 all docs	76 docs citations	76 times ranked	2723 citing authors

#	Article	IF	Citations
1	Flexible parylene-based multielectrode array technology for high-density neural stimulation and recording. Sensors and Actuators B: Chemical, 2008, 132, 449-460.	7.8	295
2	A Minimally Invasive 64-Channel Wireless Î¼ECoG Implant. IEEE Journal of Solid-State Circuits, 2015, 50, 344-359.	5.4	295
3	Self-assembling human heart organoids for the modeling of cardiac development and congenital heart disease. Nature Communications, 2021, 12, 5142.	12.8	177
4	Opto-Î¼ECoG Array: A Hybrid Neural Interface With Transparent Î¼ECoG Electrode Array and Integrated LEDs for Optogenetics. IEEE Transactions on Biomedical Circuits and Systems, 2013, 7, 593-600.	4.0	148
5	A Power-Efficient Switched-Capacitor Stimulating System for Electrical/Optical Deep Brain Stimulation. IEEE Journal of Solid-State Circuits, 2015, 50, 360-374.	5.4	117
6	Design, fabrication, and packaging of an integrated, wirelessly-powered optrode array for optogenetics application. Frontiers in Systems Neuroscience, 2015, 9, 69.	2.5	76
7	Wafer-Level Parylene Packaging With Integrated RF Electronics for Wireless Retinal Prostheses. Journal of Microelectromechanical Systems, 2010, 19, 735-742.	2.5	72
8	Flexible polyimide-based hybrid opto-electric neural interface with 16 channels of micro-LEDs and electrodes. Microsystems and Nanoengineering, 2018, 4, 27.	7.0	59
9	A Trimodal Wireless Implantable Neural Interface System-on-Chip. IEEE Transactions on Biomedical Circuits and Systems, 2020, 14, 1207-1217.	4.0	58
10	Singular Sheet Etching of Graphene with Oxygen Plasma. Nano-Micro Letters, 2014, 6, 116-124.	27.0	53
11	Wireless, passive strain sensor in a doughnut-shaped contact lens for continuous non-invasive self-monitoring of intraocular pressure. Lab on A Chip, 2020, 20, 332-342.	6.0	50
12	Corrosion Behavior of Parylene-Metal-Parylene Thin Films in Saline. ECS Transactions, 2008, 11, 1-6.	0.5	40
13	Wireless opto-electro neural interface for experiments with small freely behaving animals. Journal of Neural Engineering, 2018, 15, 046032.	3.5	39
14	Flexible, diamond-based microelectrodes fabricated using the diamond growth side for neural sensing. Microsystems and Nanoengineering, 2020, 6, 42.	7.0	39
15	A Dual-Band Wireless Power Transmission System for Evaluating mm-Sized Implants. IEEE Transactions on Biomedical Circuits and Systems, 2019, 13, 595-607.	4.0	34
16	A mm-Sized Free-Floating Wirelessly Powered Implantable Optical Stimulation Device. IEEE Transactions on Biomedical Circuits and Systems, 2019, 13, 608-618.	4.0	33
17	Super Hydrophobic Parylene-C Produced by Consecutive <inline-formula> <tex-math notation="TeX">${m O}_{2}$ </tex-math></inline-formula> and <inline-formula> <tex-math notation="TeX">${m SF}_{6}$ </tex-math></inline-formula> Plasma Treatment. Journal of Microelectromechanical Systems, 2014, 23, 628-635.	2.5	32
18	A mm-sized free-floating wirelessly powered implantable optical stimulating system-on-a-chip. , 2018, , .		31

#	Article	IF	Citations
19	A Review: Electrode and Packaging Materials for Neurophysiology Recording Implants. Frontiers in Bioengineering and Biotechnology, 2020, 8, 622923.	4.1	31
20	Characteristics of Transparent, PEDOT:PSS-Coated Indium-Tin-Oxide (ITO) Microelectrodes. IEEE Nanotechnology Magazine, 2018, 17, 701-704.	2.0	30
21	A fully transparent, flexible PEDOT:PSSâ€“ITOâ€“Agâ€“ITO based microelectrode array for ECoG recording. Lab on A Chip, 2021, 21, 1096-1108.	6.0	28
22	Assessment of neurovascular dynamics during transient ischemic attack by the novel integration of micro-electrocorticography electrode array with functional photoacoustic microscopy. Neurobiology of Disease, 2015, 82, 455-465.	4.4	26
23	Fabrication of flexible microlens arrays through vapor-induced dewetting on selectively plasma-treated surfaces. Journal of Materials Chemistry C, 2015, 3, 5825-5834.	5.5	23
24	Large-scale, all polycrystalline diamond structures transferred onto flexible Parylene-C films for neurotransmitter sensing. Lab on A Chip, 2017, 17, 3159-3167.	6.0	22
25	Toward guiding principles for the design of biologically-integrated electrodes for the central nervous system. Journal of Neural Engineering, 2020, 17, 021001.	3.5	22
26	A Flexible, Micro-Lens-Coupled LED Stimulator for Optical Neuromodulation. IEEE Transactions on Biomedical Circuits and Systems, 2016, 10, 972-978.	4.0	20
27	All-Diamond Microfiber Electrodes for Neurochemical Analysis. Journal of the Electrochemical Society, 2018, 165, G3087-G3092.	2.9	20
28	Varying-Length Polymer Microneedle Arrays Fabricated by Droplet Backside Exposure. Journal of Microelectromechanical Systems, 2014, 23, 1272-1280.	2.5	19
29	3D in vivo Magnetic Particle Imaging of Human Stem Cell-Derived Islet Organoid Transplantation Using a Machine Learning Algorithm. Frontiers in Cell and Developmental Biology, 2021, 9, 704483.	3.7	19
30	Thermoâ€flow and temperature sensing behaviour of graphene based on surface heat convection. Micro and Nano Letters, 2013, 8, 681-685.	1.3	17
31	An implantable, miniaturized SU-8 optical probe for optogenetics-based deep brain stimulation. , 2014, 2014, 450-3.		16
32	A hybrid neural interface optrode with a polycrystalline diamond heat spreader for optogenetics. Technology, 2016, 04, 15-22.	1.4	15
33	Next-Generation Diamond Electrodes for Neurochemical Sensing: Challenges and Opportunities. Micromachines, 2021, 12, 128.	2.9	15
34	Design, fabrication, and characterization of graphene thermistor. , 2013, , .		14
35	Micro-Reflector Integrated Multichannel Î¼LED Optogenetic Neurostimulator With Enhanced Intensity. Frontiers in Mechanical Engineering, 2018, 4, .	1.8	14
36	Inductively coupled, mm-sized, single channel optical neuro-stimulator with intensity enhancer. Microsystems and Nanoengineering, 2019, 5, 23.	7.0	12

#	Article	IF	Citations
37	SU-8 doped and encapsulated n-type graphene nanomesh with high air stability. Applied Physics Letters, 2013, 103, .	3.3	11
38	Opto-μECoG array: Transparent μECoG electrode array and integrated LEDs for optogenetics. , 2012, , .		10
39	A polycrystalline diamond-based, hybrid neural interfacing probe for optogenetics. , 2015, , .		10
40	Wireless intraocular pressure sensor using stretchable variable inductor. , 2017, , .		10
41	A miniaturized, wirelessly-powered, reflector-coupled single channel opto neurostimulator. , 2018, , .		8
42	Towards a free-floating wireless implantable optogenetic stimulating system. , 2017, , .		6
43	Single-channel opto-neurostimulators: a review. Journal of Micromechanics and Microengineering, 2019, 29, 043001.	2.6	6
44	Parylene-based fold-and-bond wireless pressure sensor. , 2013, , .		5
45	Complementary metalâ€SU8â€graphene method for making integrated graphene nanocircuits. Micro and Nano Letters, 2018, 13, 465-468.	1.3	4
46	A mm-Sized Free-Floating Wireless Implantable Opto-Electro Stimulation Device. Micromachines, 2020, 11, 621.	2.9	4
47	Plasma-treated switchable wettability of parylene-C surface. , 2012, , .		3
48	Characterization of surface heat convection of bilayer graphene. , 2012, , .		3
49	Fabrication of polycrystalline diamond on a flexible Parylene substrate. , 2015, , .		3
50	Control of cell fate and excitability at the neural electrode interface: Genetic reprogramming and optical induction. , 2017, , .		3
51	Stability Performance Analysis of Various Packaging Materials and Coating Strategies for Chronic Neural Implants under Accelerated, Reactive Aging Tests. Micromachines, 2020, 11, 810.	2.9	3
52	Repositioned Drugs for COVID-19â€"the Impact on Multiple Organs. SN Comprehensive Clinical Medicine, 2021, 3, 1484-1501.	0.6	3
53	Singular Sheet Etching of Graphene with Oxygen Plasma. Nano-Micro Letters, 2014, 6, 116.	27.0	3
54	Molecular nanosensors based on the inter-sheet tunneling effect of a bilayer graphene. , 2010, , .		2

#	Article	IF	Citations
55	Layer engineering of graphene with oxygen plasma etching. , 2011, , .		2
56	Adaptable chip-level microfluidic packaging for a micro-scale gas chromatograph. , 2012, , .		2
57	Tunable graphene nanomesh semiconductor: Design, fabrication, and characterization. , 2013, , .		2
58	Optical propagation of blue LED light in brain tissue and Parylene-C. , 2017, , .		2
59	Neuronal excitability and network formation on optically transparent electrode materials. , 2017, 2017, 154-157.		2
60	Implantation of multiple suprachoroidal electrode arrays in rabbits. Journal of Current Ophthalmology, 2018, 30, 68-73.	0.8	2
61	Fabrication and Characterization of Micro-Nano Electrodes for Implantable BCI. Micromachines, 2019, 10, 242.	2.9	2
62	A Fully Transparent, Flexible Î¼ECoG Array Based on Highly Conductive and Anti-reflective PEDOT:PSS-ITO-Ag-ITO Thin Films. , 2020, , .		2
63	A Lightweight Semantic Segmentation Model of Wucai Seedlings Based on Attention Mechanism. Photonics, 2022, 9, 393.	2.0	2
64	Investigation of phase-locked neuronal oscillation with optical stimulation based on a time-frequency approach. , 2013, , .		1
65	Design and optimization of microscale magnetic probes for multi-site neural stimulation. , 2013, , .		1
66	Highly stable chemical N-doping of graphene nanomesh FET. , 2014, , .		1
67	GaN LEDs fabricated using SF 6 plasma RIE. Micro and Nano Letters, 2018, 13, 1255-1259.	1.3	1
68	Transparent and ultra-flexible PEDOT:PSS/ITO/Ag/ITO on Parylene thin films with tunable properties. , 2019, , .		1
69	Single-bacterium resolution biosensors based on pristine graphenes. , 2012, , .		0
70	CMOS monolithic chemiresistor array with microfluidic channel for micro gas chromatograph. , 2012, , .		0
71	Nanosensors based on graphene inter-layer electronic properties: Sensing mechanism and selectivity. , 2012, , .		0
72	Towards simple methods for mass production of suspended graphene. , 2012, , .		0

#	Article	IF	Citations
73	Microfabricated optoelectronic neural implants for optogenetics. , 2015, , .		0
74	Designing an apparatus for behavioral testing in awake rodents during brain stimulation. , 2018, , .		0
75	Highly Conductive, Transparent, and Antireflective PEDOT:PSS/ITO/Ag/ITO on Parylene-C with Tunable Peak Transmittance. , 2019, , .		0
76	Editorial for the Special Issue on Implantable Microdevices. Micromachines, 2019, 10, 603.	2.9	0