

Xian Huang

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.

81
papers

6,055
citations

30
h-index

77
g-index

87
ext. papers

6,946
ext. citations

10.4
avg, IF

5.43
L-index

#	Paper	IF	Citations
81	Stretchable batteries with self-similar serpentine interconnects and integrated wireless recharging systems. <i>Nature Communications</i> , 2013 , 4, 1543	17.4	978
80	Injectable, cellular-scale optoelectronics with applications for wireless optogenetics. <i>Science</i> , 2013 , 340, 211-6	33.3	832
79	Soft microfluidic assemblies of sensors, circuits, and radios for the skin. <i>Science</i> , 2014 , 344, 70-4	33.3	802
78	High-performance biodegradable/transient electronics on biodegradable polymers. <i>Advanced Materials</i> , 2014 , 26, 3905-11	24	283
77	Materials and Designs for Wireless Epidermal Sensors of Hydration and Strain. <i>Advanced Functional Materials</i> , 2014 , 24, 3846-3854	15.6	230
76	Materials, designs, and operational characteristics for fully biodegradable primary batteries. <i>Advanced Materials</i> , 2014 , 26, 3879-84	24	211
75	Stretchable, wireless sensors and functional substrates for epidermal characterization of sweat. <i>Small</i> , 2014 , 10, 3083-90	11	208
74	Capacitive epidermal electronics for electrically safe, long-term electrophysiological measurements. <i>Advanced Healthcare Materials</i> , 2014 , 3, 642-8	10.1	200
73	Epidermal electronics with advanced capabilities in near-field communication. <i>Small</i> , 2015 , 11, 906-12	11	191
72	Epidermal photonic devices for quantitative imaging of temperature and thermal transport characteristics of the skin. <i>Nature Communications</i> , 2014 , 5, 4938	17.4	185
71	Adaptive optoelectronic camouflage systems with designs inspired by cephalopod skins. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2014 , 111, 12998-3003	11.5	159
70	Materials for bioresorbable radio frequency electronics. <i>Advanced Materials</i> , 2013 , 25, 3526-31	24	154
69	Fabrication and application of flexible, multimodal light-emitting devices for wireless optogenetics. <i>Nature Protocols</i> , 2013 , 8, 2413-2428	18.8	142
68	Biodegradable materials for multilayer transient printed circuit boards. <i>Advanced Materials</i> , 2014 , 26, 7371-7	24	109
67	Epidermal differential impedance sensor for conformal skin hydration monitoring. <i>Biointerphases</i> , 2012 , 7, 52	1.8	103
66	Materials, Processes, and Facile Manufacturing for Bioresorbable Electronics: A Review. <i>Advanced Materials</i> , 2018 , 30, e1707624	24	94
65	Epidermal impedance sensing sheets for precision hydration assessment and spatial mapping. <i>IEEE Transactions on Biomedical Engineering</i> , 2013 , 60, 2848-57	5	76

64	Materials for programmed, functional transformation in transient electronic systems. <i>Advanced Materials</i> , 2015 , 27, 47-52	24	66
63	A MEMS affinity glucose sensor using a biocompatible glucose-responsive polymer. <i>Sensors and Actuators B: Chemical</i> , 2009 , 140, 603-609	8.5	63
62	Low-Cost Manufacturing of Bioresorbable Conductors by Evaporation-Condensation-Mediated Laser Printing and Sintering of Zn Nanoparticles. <i>Advanced Materials</i> , 2017 , 29, 1700172	24	57
61	Epidermal radio frequency electronics for wireless power transfer. <i>Microsystems and Nanoengineering</i> , 2016 , 2, 16052	7.7	55
60	Materials and Techniques for Implantable Nutrient Sensing Using Flexible Sensors Integrated with Metal-Organic Frameworks. <i>Advanced Materials</i> , 2018 , 30, e1800917	24	49
59	Risk assessment of bioaccessible trace elements in smoke haze aerosols versus urban aerosols using simulated lung fluids. <i>Atmospheric Environment</i> , 2016 , 125, 505-511	5.3	42
58	Characterization and estimation of human airway deposition of size-resolved particulate-bound trace elements during a recent haze episode in Southeast Asia. <i>Environmental Science and Pollution Research</i> , 2015 , 22, 4265-80	5.1	39
57	Mechanically Milled Irregular Zinc Nanoparticles for Printable Bioresorbable Electronics. <i>Small</i> , 2017 , 13, 1700065	11	38
56	Elevation of brain magnesium prevents and reverses cognitive deficits and synaptic loss in Alzheimer's disease mouse model. <i>Journal of Neuroscience</i> , 2013 , 33, 8423-41	6.6	37
55	Mutation screening of the HDC gene in Chinese Han patients with Tourette syndrome. <i>American Journal of Medical Genetics Part B: Neuropsychiatric Genetics</i> , 2012 , 159B, 72-6	3.5	36
54	Multifunctional Stretchable Sensors for Continuous Monitoring of Long-Term Leaf Physiology and Microclimate. <i>ACS Omega</i> , 2019 , 4, 9522-9530	3.9	34
53	Mechanisms and Materials of Flexible and Stretchable Skin Sensors. <i>Micromachines</i> , 2017 , 8, 69	3.3	31
52	Origami NdFeB Flexible Magnetic Membranes with Enhanced Magnetism and Programmable Sequences of Polarities. <i>Advanced Functional Materials</i> , 2019 , 29, 1904977	15.6	31
51	Sub-thermionic, ultra-high-gain organic transistors and circuits. <i>Nature Communications</i> , 2021 , 12, 1928	17.4	28
50	A Capacitive MEMS Viscometric Sensor for Affinity Detection of Glucose. <i>Journal of Microelectromechanical Systems</i> , 2009 , 18, 1246-1254	2.5	27
49	Lithium normalizes elevated intracellular sodium. <i>Bipolar Disorders</i> , 2007 , 9, 298-300	3.8	26
48	Analysis of a concentric coplanar capacitor for epidermal hydration sensing. <i>Sensors and Actuators A: Physical</i> , 2013 , 203, 149-153	3.9	25
47	Fully Flexible Electromagnetic Vibration Sensors with Annular Field Confinement Origami Magnetic Membranes. <i>Advanced Functional Materials</i> , 2020 , 30, 2001553	15.6	23

46	A dielectric affinity microbiosensor. <i>Applied Physics Letters</i> , 2010 , 96, 033701	3.4	22
45	Electronic Skin from High-Throughput Fabrication of Intrinsically Stretchable Lead Zirconate Titanate Elastomer. <i>Research</i> , 2020 , 2020, 1085417	7.8	21
44	A novel Cu-metal-organic framework with two-dimensional layered topology for electrochemical detection using flexible sensors. <i>Nanotechnology</i> , 2019 , 30, 424002	3.4	20
43	The antiepileptic effect of the glycolytic inhibitor 2-deoxy-D-glucose is mediated by upregulation of K(ATP) channel subunits Kir6.1 and Kir6.2. <i>Neurochemical Research</i> , 2013 , 38, 677-85	4.6	20
42	Materials and applications of bioresorbable electronics. <i>Journal of Semiconductors</i> , 2018 , 39, 011003	2.3	19
41	Near-infrared light remotely up-regulate autophagy with spatiotemporal precision via upconversion optogenetic nanosystem. <i>Biomaterials</i> , 2019 , 199, 22-31	15.6	18
40	Aerosol printing and photonic sintering of bioresorbable zinc nanoparticle ink for transient electronics manufacturing. <i>Science China Information Sciences</i> , 2018 , 61, 1	3.4	17
39	A differential dielectric affinity glucose sensor. <i>Lab on A Chip</i> , 2014 , 14, 294-301	7.2	17
38	Thermally tunable polymer microlenses. <i>Applied Physics Letters</i> , 2008 , 92, 251904	3.4	17
37	A hydrogel-based glucose affinity microsensor. <i>Sensors and Actuators B: Chemical</i> , 2016 , 237, 992-998	8.5	16
36	A MEMS differential viscometric sensor for affinity glucose detection in continuous glucose monitoring. <i>Journal of Micromechanics and Microengineering</i> , 2013 , 23, 55020	2	16
35	Droplets as Carriers for Flexible Electronic Devices. <i>Advanced Science</i> , 2019 , 6, 1901862	13.6	13
34	Processing Techniques for Bioresorbable Nanoparticles in Fabricating Flexible Conductive Interconnects. <i>Materials</i> , 2018 , 11,	3.5	12
33	Bioresorbable Materials and Their Application in Electronics 2017 ,		12
32	Development of novel glucose sensing fluids with potential application to microelectromechanical systems-based continuous glucose monitoring. <i>Journal of Diabetes Science and Technology</i> , 2008 , 2, 1066-74	4.1	11
31	Flexible Electronics and Materials for Synchronized Stimulation and Monitoring in Multi-Encephalic Regions. <i>Advanced Functional Materials</i> , 2020 , 30, 2002644	15.6	10
30	Synthesis and development of poly(N-hydroxyethyl acrylamide)-ran-3-acrylamidophenylboronic acid polymer fluid for potential application in affinity sensing of glucose. <i>Journal of Diabetes Science and Technology</i> , 2011 , 5, 1060-7	4.1	9
29	Reconfigurable Flexible Electronics Driven by Origami Magnetic Membranes. <i>Advanced Materials Technologies</i> , 2021 , 6, 2001124	6.8	9

28	Anhydride-Assisted Spontaneous Room Temperature Sintering of Printed Bioresorbable Electronics. <i>Advanced Functional Materials</i> , 2020 , 30, 1905024	15.6	9
27	Physical and Chemical Sensors on the Basis of Laser-Induced Graphene: Mechanisms, Applications, and Perspectives. <i>ACS Nano</i> , 2021 ,	16.7	9
26	A comparative chemical study of PM10 in three Latin American cities: Lima, Medellín, and São Paulo. <i>Air Quality, Atmosphere and Health</i> , 2019 , 12, 1141-1152	5.6	8
25	Flexible Magneto-electrical Devices with Intrinsic Magnetism and Electrical Conductivity. <i>Advanced Electronic Materials</i> , 2019 , 5, 1900111	6.4	8
24	Stretchable Electronics: Epidermal Electronics with Advanced Capabilities in Near-Field Communication (Small 8/2015). <i>Small</i> , 2015 , 11, 905-905	11	8
23	A MEMS Dielectric Affinity Glucose Biosensor. <i>Journal of Microelectromechanical Systems</i> , 2013 , 23, 14-20.	5	8
22	Metal-organic frameworks as functional materials for implantable flexible biochemical sensors. <i>Nano Research</i> , 2021 , 14, 2981-3009	10	8
21	A Multichannel Flexible Optoelectronic Fiber Device for Distributed Implantable Neurological Stimulation and Monitoring. <i>Small</i> , 2021 , 17, e2005925	11	7
20	Highly sensitive ionic pressure sensor based on concave meniscus for electronic skin. <i>Journal of Micromechanics and Microengineering</i> , 2020 , 30, 015009	2	6
19	Thermally Tunable Polymer Microlenses for Biological Imaging. <i>Journal of Microelectromechanical Systems</i> , 2010 , 19, 1444-1449	2.5	4
18	Continuous monitoring of glucose in subcutaneous tissue using microfabricated differential affinity sensors. <i>Journal of Diabetes Science and Technology</i> , 2012 , 6, 1436-44	4.1	3
17	A Flexible and Stretchable 12-Lead Electrocardiogram System with Individually Deformable Interconnects. <i>Advanced Materials Technologies</i> , 2100904	6.8	3
16	Water-Sintered Transient Nanocomposites Used as Electrical Interconnects for Dissolvable Consumer Electronics. <i>ACS Applied Materials & Interfaces</i> , 2021 , 13, 32136-32148	9.5	3
15	Transient Electronics: Materials for Programmed, Functional Transformation in Transient Electronic Systems (Adv. Mater. 1/2015). <i>Advanced Materials</i> , 2015 , 27, 187-187	24	2
14	Tunable flexible pressure sensor based on bioinspired capillary-driven method. <i>Microelectronic Engineering</i> , 2020 , 231, 111370	2.5	2
13	Recent development of bioresorbable electronics using additive manufacturing. <i>Current Opinion in Chemical Engineering</i> , 2020 , 28, 118-126	5.4	2
12	Implantable Flexible Electronics: Materials and Techniques for Implantable Nutrient Sensing Using Flexible Sensors Integrated with Metal-Organic Frameworks (Adv. Mater. 23/2018). <i>Advanced Materials</i> , 2018 , 30, 1870166	24	2
11	Stretchable Health Monitoring Devices/Sensors 2018 , 323-349		1

10	Bioresorbable Electronics: Mechanically Milled Irregular Zinc Nanoparticles for Printable Bioresorbable Electronics (Small 17/2017). <i>Small</i> , 2017 , 13,	11	1
9	Miniaturized soft centrifugal pumps with magnetic levitation for fluid handling. <i>Science Advances</i> , 2021 , 7, eabi7203	14.3	1
8	Bioresorbable Electronics: Anhydride-Assisted Spontaneous Room Temperature Sintering of Printed Bioresorbable Electronics (Adv. Funct. Mater. 29/2020). <i>Advanced Functional Materials</i> , 2020 , 30, 2070194	15.6	1
7	Large-Area Transient Conductive Films Obtained through Photonic Sintering of 2D Materials. <i>Advanced Materials Technologies</i> , 2100439	6.8	1
6	Additive Manufacturing of Sandwich Structured Conductors for Applications in Flexible and Stretchable Electronics. <i>Advanced Engineering Materials</i> , 2021 , 23, 2100286	3.5	1
5	Micro and Nano Materials and Processing Techniques for Printed Biodegradable Electronics. <i>Materials Today Nano</i> , 2022 , 100201	9.7	1
4	Dual-path transformer-based network with equalization-generation components prediction for flexible vibrational sensor speech enhancement in the time domain. <i>Journal of the Acoustical Society of America</i> , 2022 , 151, 2814-2825	2.2	1
3	Comparison of enhancement techniques based on neural networks for attenuated voice signal captured by flexible vibration sensors on throats. <i>Nami Jishu Yu Jingmi Gongcheng/Nanotechnology and Precision Engineering</i> , 2022 , 5, 013001	2.4	0
2	Large-Area Transient Conductive Films Obtained through Photonic Sintering of 2D Materials (Adv. Mater. Technol. 2/2022). <i>Advanced Materials Technologies</i> , 2022 , 7, 2270008	6.8	
1	Flexible Optoelectronic Fibers: A Multichannel Flexible Optoelectronic Fiber Device for Distributed Implantable Neurological Stimulation and Monitoring (Small 4/2021). <i>Small</i> , 2021 , 17, 2170014	11	