

Hui Fang

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.

58
papers

7,244
citations

33
h-index

59
g-index

59
ext. papers

8,150
ext. citations

9.9
avg, IF

5.57
L-index

#	Paper	IF	Citations
58	High-performance single layered WSe ₂ -FETs with chemically doped contacts. <i>Nano Letters</i> , 2012 , 12, 3788-92	11.5	1322
57	Strong interlayer coupling in van der Waals heterostructures built from single-layer chalcogenides. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2014 , 111, 6198-202	11.5	803
56	Degenerate n-doping of few-layer transition metal dichalcogenides by potassium. <i>Nano Letters</i> , 2013 , 13, 1991-5	11.5	567
55	Dual-gated MoS ₂ /WSe ₂ van der Waals tunnel diodes and transistors. <i>ACS Nano</i> , 2015 , 9, 2071-9	16.7	441
54	MoSiP-type transistors and diodes enabled by high work function MoO _x contacts. <i>Nano Letters</i> , 2014 , 14, 1337-42	11.5	419
53	Strain-induced indirect to direct bandgap transition in multilayer WSe ₂ . <i>Nano Letters</i> , 2014 , 14, 4592-7	11.5	415
52	Graphene and related two-dimensional materials: Structure-property relationships for electronics and optoelectronics. <i>Applied Physics Reviews</i> , 2017 , 4, 021306	17.3	368
51	Ultrathin compound semiconductor on insulator layers for high-performance nanoscale transistors. <i>Nature</i> , 2010 , 468, 286-9	50.4	327
50	Bioresorbable silicon electronics for transient spatiotemporal mapping of electrical activity from the cerebral cortex. <i>Nature Materials</i> , 2016 , 15, 782-791	27	296
49	High-gain inverters based on WSe ₂ complementary field-effect transistors. <i>ACS Nano</i> , 2014 , 8, 4948-53	16.7	249
48	Metal-catalyzed crystallization of amorphous carbon to graphene. <i>Applied Physics Letters</i> , 2010 , 96, 063110	11.0	208
47	Fabrication of slantingly-aligned silicon nanowire arrays for solar cell applications. <i>Nanotechnology</i> , 2008 , 19, 255703	3.4	194
46	Capacitively Coupled Arrays of Multiplexed Flexible Silicon Transistors for Long-Term Cardiac Electrophysiology. <i>Nature Biomedical Engineering</i> , 2017 , 1,	19	163
45	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	11.5	133
44	Quantum confinement effects in nanoscale-thickness InAs membranes. <i>Nano Letters</i> , 2011 , 11, 5008-12	11.5	88
43	Nanoscale InGaSb heterostructure membranes on Si substrates for high hole mobility transistors. <i>Nano Letters</i> , 2012 , 12, 2060-6	11.5	74
42	III-V complementary metal-oxide-semiconductor electronics on silicon substrates. <i>Nano Letters</i> , 2012 , 12, 3592-5	11.5	74

41	Optics and Nonlinear Buckling Mechanics in Large-Area, Highly Stretchable Arrays of Plasmonic Nanostructures. <i>ACS Nano</i> , 2015 , 9, 5968-75	16.7	73
40	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	11.5	70
39	Self-aligned, extremely high frequency III-V metal-oxide-semiconductor field-effect transistors on rigid and flexible substrates. <i>Nano Letters</i> , 2012 , 12, 4140-5	11.5	67
38	Transparent arrays of bilayer-nanomesh microelectrodes for simultaneous electrophysiology and two-photon imaging in the brain. <i>Science Advances</i> , 2018 , 4, eaat0626	14.3	66
37	Development of a neural interface for high-definition, long-term recording in rodents and nonhuman primates. <i>Science Translational Medicine</i> , 2020 , 12,	17.5	64
36	Near-ideal electrical properties of InAs/WSe ₂ van der Waals heterojunction diodes. <i>Applied Physics Letters</i> , 2013 , 102, 242101	3.4	64
35	Quantum of optical absorption in two-dimensional semiconductors. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2013 , 110, 11688-91	11.5	61
34	High-Temperature Thermoelectric Behaviors of Fine-Grained Gd-Doped CaMnO ₃ Ceramics. <i>Journal of the American Ceramic Society</i> , 2010 , 93, 2121-2124	3.8	58
33	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	11.5	44
32	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	6.4	44
31	Nanoscale semiconductor "X" on substrate "Y"--processes, devices, and applications. <i>Advanced Materials</i> , 2011 , 23, 3115-27	24	39
30	Transparent Electrophysiology Microelectrodes and Interconnects from Metal Nanomesh. <i>ACS Nano</i> , 2017 , 11, 4365-4372	16.7	38
29	Benchmarking the performance of ultrathin body InAs-on-insulator transistors as a function of body thickness. <i>Applied Physics Letters</i> , 2011 , 99, 103507	3.4	37
28	Bilayer Nanomesh Structures for Transparent Recording and Stimulating Microelectrodes. <i>Advanced Functional Materials</i> , 2017 , 27, 1704117	15.6	36
27	Transferred, Ultrathin Oxide Bilayers as Biofluid Barriers for Flexible Electronic Implants. <i>Advanced Functional Materials</i> , 2018 , 28, 1702284	15.6	36
26	Quantum Size Effects on the Chemical Sensing Performance of Two-Dimensional Semiconductors. <i>Journal of Physical Chemistry C</i> , 2012 , 116, 9750-9754	3.8	36
25	Ultrathin Trilayer Assemblies as Long-Lived Barriers against Water and Ion Penetration in Flexible Bioelectronic Systems. <i>ACS Nano</i> , 2018 , 12, 10317-10326	16.7	33
24	High quality interfaces of InAs-on-insulator field-effect transistors with ZrO ₂ gate dielectrics. <i>Applied Physics Letters</i> , 2013 , 102, 153513	3.4	29

23	Topochemical Synthesis of a High-Aspect-Ratio Platelet NaNbO ₃ Template. <i>Journal of the American Ceramic Society</i> , 2007 , 90, 2399-2403	3.8	29
22	Shape-controlled synthesis of single-crystalline nanopillar arrays by template-assisted vapor-liquid-solid process. <i>Journal of the American Chemical Society</i> , 2010 , 132, 13972-4	16.4	28
21	Ultrathin-Body High-Mobility InAsSb-on-Insulator Field-Effect Transistors. <i>IEEE Electron Device Letters</i> , 2012 , 33, 504-506	4.4	22
20	Strain engineering of epitaxially transferred, ultrathin layers of III-V semiconductor on insulator. <i>Applied Physics Letters</i> , 2011 , 98, 012111	3.4	19
19	Transparent, Flexible, Penetrating Microelectrode Arrays with Capabilities of Single-Unit Electrophysiology. <i>Advanced Biology</i> , 2019 , 3, e1800276	3.5	19
18	Radiation-Induced Lymphopenia Predicts Poorer Prognosis in Patients With Breast Cancer: A Post Hoc Analysis of a Randomized Controlled Trial of Postmastectomy Hypofractionated Radiation Therapy. <i>International Journal of Radiation Oncology Biology Physics</i> , 2020 , 108, 277-285	4	16
17	Thermoelectric Performance of Zn and Ge Co-Doped In ₂ O ₃ Fine-Grained Ceramics by the Spark Plasma Sintering. <i>Journal of the American Ceramic Society</i> , 2011 , 94, 2279-2281	3.8	13
16	. <i>IEEE Transactions on Electron Devices</i> , 2017 , 64, 3443-3451	2.9	12
15	Imaging Sodium Flux during Action Potentials in Neurons with Fluorescent Nanosensors and Transparent Microelectrodes. <i>ACS Sensors</i> , 2018 , 3, 2499-2505	9.2	12
14	Nanomeshed Si nanomembranes. <i>Npj Flexible Electronics</i> , 2019 , 3,	10.7	9
13	2D layered materials: From materials properties to device applications 2015 ,		8
12	Wafer-scale, stretchable nanomeshes from an ultrathin-support-layer assisted transfer. <i>Applied Physics Letters</i> , 2018 , 112, 263101	3.4	8
11	Mechanics of Regular-Shape Nanomeshes for Transparent and Stretchable Devices. <i>Journal of Applied Mechanics, Transactions ASME</i> , 2020 , 87,	2.7	4
10	Nomogram predicting survival as a selection criterion for postmastectomy radiotherapy in patients with T1 to T2 breast cancer with 1 to 3 positive lymph nodes. <i>Cancer</i> , 2020 , 126 Suppl 16, 3857-3866	6.4	3
9	Series resistance and mobility in mechanically-exfoliated layered transition metal dichalcogenide MOSFETs 2014 ,		2
8	Hybrid Electrical and Optical Neural Interfaces. <i>Journal of Micromechanics and Microengineering</i> , 2021 , 31,	2	2
7	Possible contribution of IMRT in postoperative radiochemotherapy for rectal cancer: analysis on 1798 patients by prediction model. <i>Oncotarget</i> , 2016 , 7, 46536-46544	3.3	1
6	Preface to the Special Issue on Flexible Materials and Structures for Bioengineering, Sensing, and Energy Applications. <i>Journal of Semiconductors</i> , 2020 , 41, 040101	2.3	1

5	Crosstalk in Polymer Microelectrode Arrays. <i>Nano Research</i> , 2021 , 14, 3240-3247	10	0
4	Synergistic enhancement of thermal conductivity by addition of graphene nanoplatelets to three-dimensional boron nitride scaffolds for polyamide 6 composites. <i>Polymer Engineering and Science</i> , 2021 , 61, 1415-1426	2-3	0
3	Microelectrode Arrays: Transparent, Flexible, Penetrating Microelectrode Arrays with Capabilities of Single-Unit Electrophysiology (Adv. Biosys. 3/2019). <i>Advanced Biology</i> , 2019 , 3, 1970033	3-5	
2	Design of atomically-thin-body field-effect sensors and pattern recognition neural networks for ultra-sensitive and intelligent trace explosive detection. <i>2D Materials</i> , 2019 , 6, 044002	5-9	
1	2-D InAs XO1 FETs 2017 , 185-195		