

Hui Fang

List of Publications by Year in descending order

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59
papers

8,946
citations

109137

35
h-index

155451

55
g-index

59
all docs

59
docs citations

59
times ranked

12754
citing authors

#	ARTICLE	IF	CITATIONS
1	High-Performance Single Layered WSe ₂ p-FETs with Chemically Doped Contacts. Nano Letters, 2012, 12, 3788-3792.	4.5	1,547
2	Strong interlayer coupling in van der Waals heterostructures built from single-layer chalcogenides. Proceedings of the National Academy of Sciences of the United States of America, 2014, 111, 6198-6202.	3.3	970
3	Degenerate n-Doping of Few-Layer Transition Metal Dichalcogenides by Potassium. Nano Letters, 2013, 13, 1991-1995.	4.5	651
4	Strain-Induced Indirect to Direct Bandgap Transition in Multilayer WSe ₂ . Nano Letters, 2014, 14, 4592-4597.	4.5	572
5	Dual-Gated MoS ₂ /WSe ₂ van der Waals Tunnel Diodes and Transistors. ACS Nano, 2015, 9, 2071-2079.	7.3	560
6	MoS ₂ P-type Transistors and Diodes Enabled by High Work Function MoO ₃ Contacts. Nano Letters, 2014, 14, 1337-1342.	4.5	487
7	Graphene and related two-dimensional materials: Structure-property relationships for electronics and optoelectronics. Applied Physics Reviews, 2017, 4, .	5.5	476
8	Bioresorbable silicon electronics for transient spatiotemporal mapping of electrical activity from the cerebral cortex. Nature Materials, 2016, 15, 782-791.	13.3	400
9	Ultrathin compound semiconductor on insulator layers for high-performance nanoscale transistors. Nature, 2010, 468, 286-289.	13.7	373
10	High-Gain Inverters Based on WSe ₂ Complementary Field-Effect Transistors. ACS Nano, 2014, 8, 4948-4953.	7.3	284
11	Metal-catalyzed crystallization of amorphous carbon to graphene. Applied Physics Letters, 2010, 96, .	1.5	234
12	Fabrication of slantingly-aligned silicon nanowire arrays for solar cell applications. Nanotechnology, 2008, 19, 255703.	1.3	214
13	Capacitively coupled arrays of multiplexed flexible silicon transistors for long-term cardiac electrophysiology. Nature Biomedical Engineering, 2017, 1, .	11.6	210
14	Ultrathin, transferred layers of thermally grown silicon dioxide as biofluid barriers for biointegrated flexible electronic systems. Proceedings of the National Academy of Sciences of the United States of America, 2016, 113, 11682-11687.	3.3	175
15	Development of a neural interface for high-definition, long-term recording in rodents and nonhuman primates. Science Translational Medicine, 2020, 12, .	5.8	145
16	Transparent arrays of bilayer-nanomesh microelectrodes for simultaneous electrophysiology and two-photon imaging in the brain. Science Advances, 2018, 4, eaat0626.	4.7	114
17	Quantum Confinement Effects in Nanoscale-Thickness InAs Membranes. Nano Letters, 2011, 11, 5008-5012.	4.5	97
18	Materials and processing approaches for foundry-compatible transient electronics. Proceedings of the National Academy of Sciences of the United States of America, 2017, 114, E5522-E5529.	3.3	93

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19	Optics and Nonlinear Buckling Mechanics in Large-Area, Highly Stretchable Arrays of Plasmonic Nanostructures. ACS Nano, 2015, 9, 5968-5975.	7.3	87
20	Nanoscale InGaSb Heterostructure Membranes on Si Substrates for High Hole Mobility Transistors. Nano Letters, 2012, 12, 2060-2066.	4.5	85
21	III-V Complementary Metal-Oxide-Semiconductor Electronics on Silicon Substrates. Nano Letters, 2012, 12, 3592-3595.	4.5	80
22	Quantum of optical absorption in two-dimensional semiconductors. Proceedings of the National Academy of Sciences of the United States of America, 2013, 110, 11688-11691.	3.3	75
23	Self-Aligned, Extremely High Frequency III-V Metal-Oxide-Semiconductor Field-Effect Transistors on Rigid and Flexible Substrates. Nano Letters, 2012, 12, 4140-4145.	4.5	73
24	Near-ideal electrical properties of InAs/WSe ₂ van der Waals heterojunction diodes. Applied Physics Letters, 2013, 102, .	1.5	71
25	High-Temperature Thermoelectric Behaviors of Fine-Grained Gd-Doped CaMnO ₃ Ceramics. Journal of the American Ceramic Society, 2010, 93, 2121-2124.	1.9	67
26	Flexible electronic/optoelectronic microsystems with scalable designs for chronic biointegration. Proceedings of the National Academy of Sciences of the United States of America, 2019, 116, 15398-15406.	3.3	66
27	Thin, Transferred Layers of Silicon Dioxide and Silicon Nitride as Water and Ion Barriers for Implantable Flexible Electronic Systems. Advanced Electronic Materials, 2017, 3, 1700077.	2.6	61
28	Transparent Electrophysiology Microelectrodes and Interconnects from Metal Nanomesh. ACS Nano, 2017, 11, 4365-4372.	7.3	58
29	Ultrathin Trilayer Assemblies as Long-Lived Barriers against Water and Ion Penetration in Flexible Bioelectronic Systems. ACS Nano, 2018, 12, 10317-10326.	7.3	57
30	Transferred, Ultrathin Oxide Bilayers as Biofluid Barriers for Flexible Electronic Implants. Advanced Functional Materials, 2018, 28, 1702284.	7.8	49
31	Bilayer Nanomesh Structures for Transparent Recording and Stimulating Microelectrodes. Advanced Functional Materials, 2017, 27, 1704117.	7.8	47
32	Nanoscale Semiconductor-on-Substrate Processes, Devices, and Applications. Advanced Materials, 2011, 23, 3115-3127.	11.1	42
33	Quantum Size Effects on the Chemical Sensing Performance of Two-Dimensional Semiconductors. Journal of Physical Chemistry C, 2012, 116, 9750-9754.	1.5	41
34	Benchmarking the performance of ultrathin body InAs-on-insulator transistors as a function of body thickness. Applied Physics Letters, 2011, 99, .	1.5	40
35	Topochemical Synthesis of a High-Aspect-Ratio Platelet NaNbO ₃ Template. Journal of the American Ceramic Society, 2007, 90, 2399-2403.	1.9	37
36	High quality interfaces of InAs-on-insulator field-effect transistors with ZrO ₂ gate dielectrics. Applied Physics Letters, 2013, 102, .	1.5	33

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37	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.	0.4	33
38	Transparent, Flexible, Penetrating Microelectrode Arrays with Capabilities of Single-Unit Electrophysiology. <i>Advanced Biology</i> , 2019, 3, e1800276.	3.0	30
39	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, 13972-13974.	6.6	29
40	Ultrathin-Body High-Mobility InAsSb-on-Insulator Field-Effect Transistors. <i>IEEE Electron Device Letters</i> , 2012, 33, 504-506.	2.2	28
41	Strain engineering of epitaxially transferred, ultrathin layers of III-V semiconductor on insulator. <i>Applied Physics Letters</i> , 2011, 98, 012111.	1.5	23
42	Thermoelectric Performance of Zn and GeCo-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.	1.9	16
43	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
44	Imaging Sodium Flux during Action Potentials in Neurons with Fluorescent Nanosensors and Transparent Microelectrodes. <i>ACS Sensors</i> , 2018, 3, 2499-2505.	4.0	16
45	Nanomeshed Si nanomembranes. <i>Npj Flexible Electronics</i> , 2019, 3, .	5.1	12
46	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.	1.5	11
47	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, 3857-3866.	2.0	10
48	2D layered materials: From materials properties to device applications. , 2015, , .		9
49	Hybrid electrical and optical neural interfaces. <i>Journal of Micromechanics and Microengineering</i> , 2021, 31, 044002.	1.5	9
50	Crosstalk in polymer microelectrode arrays. <i>Nano Research</i> , 2021, 14, 3240-3247.	5.8	9
51	Wafer-scale, stretchable nanomeshes from an ultrathin-support-layer assisted transfer. <i>Applied Physics Letters</i> , 2018, 112, .	1.5	8
52	Influence of <i>in situ</i> compatibilization on <i>in situ</i> formation of low-density polyethylene/polyamide 6 blends by reactive extrusion. <i>Journal of Applied Polymer Science</i> , 2010, 116, 3027-3034.	1.3	6
53	Mechanics of Regular-Shape Nanomeshes for Transparent and Stretchable Devices. <i>Journal of Applied Mechanics, Transactions ASME</i> , 2020, 87, .	1.1	4
54	Series resistance and mobility in mechanically-exfoliated layered transition metal dichalcogenide MOSFETs. , 2014, , .		2

#	ARTICLE	IF	CITATIONS
55	Preface to the Special Issue on Flexible Materials and Structures for Bioengineering, Sensing, and Energy Applications. Journal of Semiconductors, 2020, 41, 040101.	2.0	2
56	Design of atomically-thin-body field-effect sensors and pattern recognition neural networks for ultra-sensitive and intelligent trace explosive detection. 2D Materials, 2019, 6, 044002.	2.0	1
57	Possible contribution of IMRT in postoperative radiochemotherapy for rectal cancer: analysis on 1798 patients by prediction model. Oncotarget, 2016, 7, 46536-46544.	0.8	1
58	Microelectrode Arrays: Transparent, Flexible, Penetrating Microelectrode Arrays with Capabilities of Single-Unit Electrophysiology (Adv. Biosys. 3/2019). Advanced Biology, 2019, 3, 1970033.	3.0	0
59	2-D InAs XOI FETs. , 2017, , 185-195.		0