

Li Tao

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.

73
papers

4,421
citations

28
h-index

66
g-index

82
ext. papers

5,163
ext. citations

8.7
avg, IF

5.49
L-index

#	Paper	IF	Citations
73	Silicene field-effect transistors operating at room temperature. <i>Nature Nanotechnology</i> , 2015 , 10, 227-31	18.7	1161
72	High-performance, highly bendable MoS2 transistors with high-k dielectrics for flexible low-power systems. <i>ACS Nano</i> , 2013 , 7, 5446-52	16.7	386
71	Flexible black phosphorus ambipolar transistors, circuits and AM demodulator. <i>Nano Letters</i> , 2015 , 15, 1883-90	11.5	341
70	Toward air-stable multilayer phosphorene thin-films and transistors. <i>Scientific Reports</i> , 2015 , 5, 8989	4.9	308
69	Graphene Electronic Tattoo Sensors. <i>ACS Nano</i> , 2017 , 11, 7634-7641	16.7	304
68	Atomristor: Nonvolatile Resistance Switching in Atomic Sheets of Transition Metal Dichalcogenides. <i>Nano Letters</i> , 2018 , 18, 434-441	11.5	226
67	Silicene, silicene derivatives, and their device applications. <i>Chemical Society Reviews</i> , 2018 , 47, 6370-6387	38.5	155
66	Synthesis of high quality monolayer graphene at reduced temperature on hydrogen-enriched evaporated copper (111) films. <i>ACS Nano</i> , 2012 , 6, 2319-25	16.7	143
65	Shape-specific polymeric nanomedicine: emerging opportunities and challenges. <i>Experimental Biology and Medicine</i> , 2011 , 236, 20-9	3.7	119
64	Selective mechanical transfer of graphene from seed copper foil using rate effects. <i>ACS Nano</i> , 2015 , 9, 1325-35	16.7	88
63	A blister test for interfacial adhesion of large-scale transferred graphene. <i>Carbon</i> , 2014 , 69, 390-400	10.4	70
62	Toward 300 mm wafer-scalable high-performance polycrystalline chemical vapor deposited graphene transistors. <i>ACS Nano</i> , 2014 , 8, 10471-9	16.7	68
61	Large-Area Dry Transfer of Single-Crystalline Epitaxial Bismuth Thin Films. <i>Nano Letters</i> , 2016 , 16, 6931-6938	13.3	66
60	Graphene synthesis via magnetic inductive heating of copper substrates. <i>ACS Nano</i> , 2013 , 7, 7495-9	16.7	62
59	Uniform Wafer-Scale Chemical Vapor Deposition of Graphene on Evaporated Cu (111) Film with Quality Comparable to Exfoliated Monolayer. <i>Journal of Physical Chemistry C</i> , 2012 , 116, 24068-24074	3.8	58
58	Embedded-gate graphene transistors for high-mobility detachable flexible nanoelectronics. <i>Applied Physics Letters</i> , 2012 , 100, 152104	3.4	57
57	Support-Free Transfer of Ultrasoother Graphene Films Facilitated by Self-Assembled Monolayers for Electronic Devices and Patterns. <i>ACS Nano</i> , 2016 , 10, 1404-10	16.7	52

56	High-Performance Current Saturating Graphene Field-Effect Transistor With Hexagonal Boron Nitride Dielectric on Flexible Polymeric Substrates. <i>IEEE Electron Device Letters</i> , 2013 , 34, 172-174	4.4	48
55	Enhanced sensitivity of graphene ammonia gas sensors using molecular doping. <i>Applied Physics Letters</i> , 2016 , 108, 033106	3.4	48
54	Direct delamination of graphene for high-performance plastic electronics. <i>Small</i> , 2014 , 10, 694-8	11	46
53	Silicon Nanosheets: Crossover between Multilayer Silicene and Diamond-like Growth Regime. <i>ACS Nano</i> , 2017 , 11, 3376-3382	16.7	38
52	Lithographically defined uniform worm-shaped polymeric nanoparticles. <i>Nanotechnology</i> , 2010 , 21, 095304	3.4	34
51	Clean graphene interfaces by selective dry transfer for large area silicon integration. <i>Nanoscale</i> , 2016 , 8, 7523-33	7.7	32
50	Multi-finger flexible graphene field effect transistors with high bendability. <i>Applied Physics Letters</i> , 2012 , 101, 252109	3.4	32
49	Direct Observation of Poly(Methyl Methacrylate) Removal from a Graphene Surface. <i>Chemistry of Materials</i> , 2017 , 29, 2033-2039	9.6	30
48	Large-Area Graphene Electrodes: Using CVD to facilitate applications in commercial touchscreens, flexible nanoelectronics, and neural interfaces.. <i>IEEE Nanotechnology Magazine</i> , 2015 , 9, 6-14	1.7	30
47	Mixed-mode traction-separation relations between graphene and copper by blister tests. <i>International Journal of Solids and Structures</i> , 2016 , 84, 147-159	3.1	30
46	Deposition and patterning of diamondlike carbon as antiwear nanoimprint templates. <i>Journal of Vacuum Science & Technology B</i> , 2006 , 24, 2993		30
45	Chemical-sensitive graphene modulator with a memory effect for internet-of-things applications. <i>Microsystems and Nanoengineering</i> , 2016 , 2, 16018	7.7	28
44	Characterizing nanoimprint profile shape and polymer flow behavior using visible light angular scatterometry. <i>Journal of Vacuum Science & Technology B</i> , 2007 , 25, 2396		23
43	Mixed-Mode Interactions Between Graphene and Substrates by Blister Tests. <i>Journal of Applied Mechanics, Transactions ASME</i> , 2015 , 82,	2.7	22
42	Exceptional texture evolution induced by multi-pass cold drawing of magnesium alloy. <i>Materials and Design</i> , 2017 , 135, 267-274	8.1	21
41	Two-Dimensional Pnictogen for Field-Effect Transistors. <i>Research</i> , 2019 , 2019, 1046329	7.8	21
40	Inductively heated synthesized graphene with record transistor mobility on oxidized silicon substrates at room temperature. <i>Applied Physics Letters</i> , 2013 , 103, 183115	3.4	19
39	Transparent Nanoscale Polyimide Gate Dielectric for Highly Flexible Electronics. <i>Advanced Electronic Materials</i> , 2018 , 4, 1700043	6.4	17

38	Improvement of graphene field-effect transistors by hexamethyldisilazane surface treatment. <i>Applied Physics Letters</i> , 2014 , 105, 033117	3.4	16
37	Self-reinforced biodegradable Mg-2Zn alloy wires/poly(lactic acid) composite for orthopedic implants. <i>Composites Science and Technology</i> , 2018 , 162, 198-205	8.6	15
36	Enhanced fully-biodegradable Mg/PLA composite rod: Effect of surface modification of Mg-2Zn wire on the interfacial bonding. <i>Surface and Coatings Technology</i> , 2018 , 350, 722-731	4.4	13
35	Durable diamond-like carbon templates for UV nanoimprint lithography. <i>Nanotechnology</i> , 2008 , 19, 105302	3.4	13
34	Vis-NIR photodetector with microsecond response enabled by 2D bismuth/Si(111) heterojunction. <i>2D Materials</i> , 2021 , 8, 035002	5.9	12
33	Mechanical and Biological Properties of a Biodegradable Mg-Zn-Ca Porous Alloy. <i>Orthopaedic Surgery</i> , 2018 , 10, 160-168	2.5	12
32	Nanofabrication down to 10 nm on a plastic substrate. <i>Journal of Vacuum Science and Technology B: Nanotechnology and Microelectronics</i> , 2011 , 29, 06FG07	1.3	10
31	Disassembling Silicene from Native Substrate and Transferring onto an Arbitrary Target Substrate. <i>Advanced Functional Materials</i> , 2020 , 30, 2004546	15.6	10
30	Efficient Full-Color Boron Nitride Quantum Dots for Thermostable Flexible Displays. <i>ACS Nano</i> , 2021 , 15, 14610-14617	16.7	9
29	Contactless tracking of humans using non-contact triboelectric sensing technology: Enabling new assistive applications for the elderly and the visually impaired. <i>Nano Energy</i> , 2021 , 90, 106486	17.1	9
28	Towards the design and fabrication of graphene based flexible GHz radio receiver systems 2014 ,		8
27	Towards the Realization of Graphene Based Flexible Radio Frequency Receiver. <i>Electronics (Switzerland)</i> , 2015 , 4, 933-946	2.6	8
26	Intrinsic memristive mechanisms in 2D layered materials for high-performance memory. <i>Journal of Applied Physics</i> , 2021 , 129, 050902	2.5	8
25	Suppression of copper thin film loss during graphene synthesis. <i>ACS Applied Materials & Interfaces</i> , 2015 , 7, 1527-32	9.5	7
24	INVERSION OF THE ELECTRICAL AND OPTICAL PROPERTIES OF PARTIALLY OXIDIZED HEXAGONAL BORON NITRIDE. <i>Nano</i> , 2014 , 09, 1450002	1.1	6
23	Surface energy induced patterning of organic and inorganic materials on heterogeneous Si surfaces. <i>Journal of Vacuum Science & Technology B</i> , 2007 , 25, 1993		6
22	Anisotropic thermoelectric effect and field-effect devices in epitaxial bismuthene on Si (111). <i>Nanotechnology</i> , 2020 , 31, 475202	3.4	6
21	Flexible and Wearable Hybrid RF and Solar Energy Harvesting System. <i>IEEE Transactions on Antennas and Propagation</i> , 2021 , 1-1	4.9	5

20	State-of-the-art graphene transistors on hexagonal boron nitride, high-k, and polymeric films for GHz flexible analog nanoelectronics 2012 ,		4
19	Graphene frequency doubler with record 3GHz bandwidth and the maximum conversion gain prospects 2012 ,		4
18	Conductive Porous MXene for Bionic, Wearable, and Precise Gesture Motion Sensors. <i>Research</i> , 2021 , 2021, 9861467	7.8	4
17	Effects of the thickness and laser irradiation on the electrical properties of e-beam evaporated 2D bismuth. <i>Nanoscale</i> , 2021 , 13, 2648-2657	7.7	4
16	Thermoelectric effect and devices on IVA and VA Xenos. <i>Information Materials</i> , 2021 , 3, 271-292	23.1	4
15	Physical characterization of nanoimprinted polymer nanostructures using visible light angular scatterometry. <i>Journal of Micro/Nanolithography, MEMS, and MOEMS</i> , 2008 , 7, 013008	0.7	3
14	Interfacial adhesion studies for step and flash imprint lithography 2008 ,		2
13	Physical vapor deposited 2D bismuth for CMOS technology. <i>Journal of Semiconductors</i> , 2020 , 41, 0810012.3	12.3	2
12	(Invited) silicene and phosphorene: Progress on the intriguing case of buckled atomic sheets 2015 ,		1
11	Electrospun Mg/poly(lactic-co-glycolic acid) composite scaffold for urethral reconstruction. <i>Journal of Materials Science</i> , 2020 , 55, 13216-13231	4.3	1
10	Prospects and challenges in low-dimensional materials and devices for Internet of things 2020 , 291-327		1
9	Graphene Raman imaging and spectroscopy processing: characterization of graphene growth 2012 ,		1
8	Surface energy induced patterning of polymer nanostructures for cancer diagnosis and therapy 2007 ,		1
7	Visible light angular scatterometry for nanolithography 2007 ,		1
6	Thermosensitive hydrogel-functionalized gold nanorod/mesoporous MnO nanoparticles for tumor cell-triggered drug delivery. <i>Materials Science and Engineering C</i> , 2021 , 131, 112504	8.3	1
5	Morphology Optimization of Bi ₂ Se ₃ Thin Films for Enhanced Thermoelectric Performance. <i>Crystal Growth and Design</i> , 2021 , 21, 6737-6743	3.5	0
4	Encapsulated Silicene Field-Effect Transistors. <i>Nanoscience and Technology</i> , 2018 , 235-254	0.6	0
3	Efficient trust chain model based on turing machine. <i>Security and Communication Networks</i> , 2015 , 8, 2-12.9	2.9	0

2 Bismuthene **2022**, 173-196

1 Integration paths for Xenon **2022**, 405-438