Xiaolong Liu

List of Publications by Year in descending order

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#	Article	IF	CITATIONS
1	Borophene synthesis beyond the single-atomic-layer limit. Nature Materials, 2022, 21, 35-40.	13.3	137
2	Probing borophene oxidation at the atomic scale. Nanotechnology, 2022, 33, 235702.	1.3	7
3	Self-Assembled Borophene/Graphene Nanoribbon Mixed-Dimensional Heterostructures. Nano Letters, 2021, 21, 4029-4035.	4.5	11
4	Discovery of a Cooper-pair density wave state in a transition-metal dichalcogenide. Science, 2021, 372, 1447-1452.	6.0	48
5	Atomic-scale visualization of electronic fluid flow. Nature Materials, 2021, 20, 1480-1484.	13.3	10
6	Angstrom-Scale Spectroscopic Visualization of Interfacial Interactions in an Organic/Borophene Vertical Heterostructure. Journal of the American Chemical Society, 2021, 143, 15624-15634.	6.6	29
7	Visualizing Thermally Activated Memristive Switching in Percolating Networks of Solutionâ€Processed 2D Semiconductors. Advanced Functional Materials, 2021, 31, 2107385.	7.8	17
8	Nanoscale Probing of Image-Potential States and Electron Transfer Doping in Borophene Polymorphs. Nano Letters, 2021, 21, 1169-1174.	4.5	20
9	Severe Dirac Mass Gap Suppression in Sb ₂ Te ₃ -Based Quantum Anomalous Hall Materials. Nano Letters, 2020, 20, 8001-8007.	4.5	10
10	Molecular-Scale Characterization of Photoinduced Charge Separation in Mixed-Dimensional InSe–Organic van der Waals Heterostructures. ACS Nano, 2020, 14, 3509-3518.	7.3	17
11	Borophene Concentric Superlattices via Self-Assembly of Twin Boundaries. Nano Letters, 2020, 20, 1315-1321.	4.5	36
12	2D materials for quantum information science. Nature Reviews Materials, 2019, 4, 669-684.	23.3	305
13	Borophene-graphene heterostructures. Science Advances, 2019, 5, eaax6444.	4.7	89
14	Near-equilibrium growth from borophene edges on silver. Science Advances, 2019, 5, eaax0246.	4.7	47
15	Borophene Synthesis on Au(111). ACS Nano, 2019, 13, 3816-3822.	7.3	261
16	Geometric imaging of borophene polymorphs with functionalized probes. Nature Communications, 2019, 10, 1642.	5.8	65
17	Improved device performance of Si-based heterojunction solar cells by using phosphorus doped Si nanocrystals embedded in SiC host matrix. AIP Advances, 2019, 9, .	0.6	5
18	Ultrahigh Vacuum Self-Assembly of Rotationally Commensurate C8-BTBT/MoS ₂ /Graphene Mixed-Dimensional Heterostructures. Chemistry of Materials, 2019, 31, 1761-1766.	3.2	16

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19	Tunable Crystallinity and Charge Transfer in Twoâ€Dimensional Gâ€Quadruplex Organic Frameworks. Angewandte Chemie, 2018, 130, 4049-4053.	1.6	10
20	Tunable Crystallinity and Charge Transfer in Twoâ€Dimensional Gâ€Quadruplex Organic Frameworks. Angewandte Chemie - International Edition, 2018, 57, 3985-3989.	7.2	26
21	Anhydrous Liquid-Phase Exfoliation of Pristine Electrochemically Active GeS Nanosheets. Chemistry of Materials, 2018, 30, 2245-2250.	3.2	41
22	Anisotropic Lithiation and Sodiation of ReS2 Studied by In-situ TEM. Microscopy and Microanalysis, 2018, 24, 1570-1571.	0.2	2
23	Dual Management of Electrons and Photons to Get Highâ€Performance Light Emitting Devices Based on Si Nanowires and Si Quantum Dots with Al 2 O 3 â€Ag Hybrid Nanostructures. Particle and Particle Systems Characterization, 2018, 35, 1800289.	1.2	0
24	Selective Transfer of Rotationally Commensurate MoS ₂ from an Epitaxially Grown van der Waals Heterostructure. Chemistry of Materials, 2018, 30, 8495-8500.	3.2	6
25	Solution-Processed Layered Gallium Telluride Thin-Film Photodetectors. ACS Photonics, 2018, 5, 3996-4002.	3.2	52
26	Interface Characterization and Control of 2D Materials and Heterostructures. Advanced Materials, 2018, 30, e1801586.	11.1	134
27	Revealing the Effects of Electrode Crystallographic Orientation on Battery Electrochemistry <i>via</i> the Anisotropic Lithiation and Sodiation of ReS ₂ . ACS Nano, 2018, 12, 7875-7882.	7.3	28
28	Intermixing and periodic self-assembly of borophene line defects. Nature Materials, 2018, 17, 783-788.	13.3	129
29	Solutionâ€Based Processing of Optoelectronically Active Indium Selenide. Advanced Materials, 2018, 30, e1802990.	11.1	78
30	High aspect ratio nanotubes assembled from macrocyclic iminium salts. Proceedings of the National Academy of Sciences of the United States of America, 2018, 115, 8883-8888.	3.3	36
31	Chemical vapor deposition of monolayer MoS2 directly on ultrathin Al2O3 for low-power electronics. Applied Physics Letters, 2017, 110, .	1.5	72
32	Self-assembly of electronically abrupt borophene/organic lateral heterostructures. Science Advances, 2017, 3, e1602356.	4.7	79
33	Resolving the Inâ€Plane Anisotropic Properties of Black Phosphorus. Small Methods, 2017, 1, 1700143.	4.6	73
34	Improving the Performance of Graphene Phototransistors Using a Heterostructure as the Light-Absorbing Layer. Nano Letters, 2017, 17, 6391-6396.	4.5	87
35	Scanning Probe Nanopatterning and Layerâ€byâ€Layer Thinning of Black Phosphorus. Advanced Materials, 2017, 29, 1604121.	11.1	62
36	Transistors: Layerâ€byâ€Layer Assembled 2D Montmorillonite Dielectrics for Solutionâ€Processed Electronics (Adv. Mater. 1/2016). Advanced Materials, 2016, 28, 203-203.	11.1	2

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37	Layerâ€by‣ayer Assembled 2D Montmorillonite Dielectrics for Solutionâ€Processed Electronics. Advanced Materials, 2016, 28, 63-68.	11.1	72
38	Precise, Self-Limited Epitaxy of Ultrathin Organic Semiconductors and Heterojunctions Tailored by van der Waals Interactions. Nano Letters, 2016, 16, 3754-3759.	4.5	92
39	Stable aqueous dispersions of optically and electronically active phosphorene. Proceedings of the National Academy of Sciences of the United States of America, 2016, 113, 11688-11693.	3.3	206
40	Layer-by-Layer Sorting of Rhenium Disulfide via High-Density Isopycnic Density Gradient Ultracentrifugation. Nano Letters, 2016, 16, 7216-7223.	4.5	54
41	Highâ€Performance Solidâ€State Supercapacitors and Microsupercapacitors Derived from Printable Graphene Inks. Advanced Energy Materials, 2016, 6, 1600909.	10.2	139
42	Epitaxial Ultrathin Organic Crystals on Graphene for Highâ€Efficiency Phototransistors. Advanced Materials, 2016, 28, 5200-5205.	11.1	134
43	Polyelemental nanoparticle libraries. Science, 2016, 352, 1565-1569.	6.0	332
44	Rotationally Commensurate Growth of MoS ₂ on Epitaxial Graphene. ACS Nano, 2016, 10, 1067-1075.	7.3	176
45	Point Defects and Grain Boundaries in Rotationally Commensurate MoS ₂ on Epitaxial Graphene. Journal of Physical Chemistry C, 2016, 120, 20798-20805.	1.5	99
46	Synthesis of borophenes: Anisotropic, two-dimensional boron polymorphs. Science, 2015, 350, 1513-1516.	6.0	2,047
47	In Situ Thermal Decomposition of Exfoliated Two-Dimensional Black Phosphorus. Journal of Physical Chemistry Letters, 2015, 6, 773-778.	2.1	209
48	Solvent Exfoliation of Electronic-Grade, Two-Dimensional Black Phosphorus. ACS Nano, 2015, 9, 3596-3604.	7.3	655
49	Planar carbon nanotube–graphene hybrid films for high-performance broadband photodetectors. Nature Communications, 2015, 6, 8589.	5.8	258
50	Effective Passivation of Exfoliated Black Phosphorus Transistors against Ambient Degradation. Nano Letters, 2014, 14, 6964-6970.	4.5	1,294
51	Electron transport properties of magnetic granular films. Science China: Physics, Mechanics and Astronomy, 2013, 56, 15-28.	2.0	25
52	A piezo motor based on a new principle with high output force, rigidity and integrity: The Tuna Drive. Review of Scientific Instruments, 2012, 83, 115111.	0.6	13