Jiong Yang

List of Publications by Citations

55 papers	2,806 citations	26 h-index	52 g-index
58 ext. papers	3,410 ext. citations	13.4 avg, IF	5.32 L-index

#	Paper	IF	Citations
55	Extraordinary photoluminescence and strong temperature/angle-dependent Raman responses in few-layer phosphorene. *ACS Nano*, **2014**, 8, 9590-6	16.7	529
54	Producing air-stable monolayers of phosphorene and their defect engineering. *Nature Communications*, **2016**, 7, 10450	17.4	358
53	Optical tuning of exciton and trion emissions in monolayer phosphorene. *Light: Science and Applications*, **2015**, 4, e312-e312	16.7	226
52	Many-Body Complexes in 2D Semiconductors. *Advanced Materials*, **2019**, 31, e1706945	24	199
51	Robust Excitons and Trions in Monolayer MoTe2. *ACS Nano*, **2015**, 9, 6603-9	16.7	114
50	Light-Matter Interactions in Phosphorene. *Accounts of Chemical Research*, **2016**, 49, 1806-15	24.3	89
49	Atomically thin optical lenses and gratings. *Light: Science and Applications*, **2016**, 5, e16046	16.7	85
48	Self-Limiting Galvanic Growth of MnO2 Monolayers on a Liquid Metal Applied to Photocatalysis. *Advanced Functional Materials*, **2019**, 29, 1901649	15.6	81
47	Extraordinarily Bound Quasi-One-Dimensional Trions in Two-Dimensional Phosphorene Atomic Semiconductors. *ACS Nano*, **2016**, 10, 2046-53	16.7	75
46	Liquid metal-based synthesis of high performance monolayer SnS piezoelectric nanogenerators. *Nature Communications*, **2020**, 11, 3449	17.4	69
45	Exciton and Trion Dynamics in Bilayer MoS2. *Small*, **2015**, 11, 6384-90	11	61
44	Manipulation of photoluminescence of two-dimensional MoSe2 by gold nanoantennas. *Scientific Reports*, **2016**, 6, 22296	4.9	60
43	Layer-dependent surface potential of phosphorene and anisotropic/layer-dependent charge transfer in phosphorene-gold hybrid systems. *Nanoscale*, **2016**, 8, 129-35	7.7	54
42	Unique surface patterns emerging during solidification of liquid metal alloys. *Nature Nanotechnology*, **2021**, 16, 431-439	28.7	46
41	Efficient and Layer-Dependent Exciton Pumping across Atomically Thin Organic-Inorganic Type-I Heterostructures. *Advanced Materials*, **2018**, 30, e1803986	24	46
40	Electronic Skins Based on Liquid Metals. *Proceedings of the IEEE*, **2019**, 107, 2168-2184	14.3	45
39	Liquid-Metal-Templated Synthesis of 2D Graphitic Materials at Room Temperature. *Advanced Materials*, **2020**, 32, e2001997	24	44

38	Excited State Biexcitons in Atomically Thin MoSe. *ACS Nano*, **2017**, 11, 7468-7475	16.7	44
37	Exciton Brightening in Monolayer Phosphorene via Dimensionality Modification. *Advanced Materials*, **2016**, 28, 3493-8	24	41
36	Magnetic and Conductive Liquid Metal Gels. *ACS Applied Materials & Interfaces*, **2020**, 12, 20119-20128	9.5	40
35	Advantages of eutectic alloys for creating catalysts in the realm of nanotechnology-enabled metallurgy. *Nature Communications*, **2019**, 10, 4645	17.4	39
34	High-Efficiency Monolayer Molybdenum Ditelluride Light-Emitting Diode and Photodetector. *ACS Applied Materials & Interfaces*, **2018**, 10, 43291-43298	9.5	39
33	Polyphenol-Induced Adhesive Liquid Metal Inks for Substrate-Independent Direct Pen Writing. *Advanced Functional Materials*, **2021**, 31, 2007336	15.6	37
32	Liquid metals for tuning gas sensitive layers. *Journal of Materials Chemistry C*, **2019**, 7, 6375-6382	7.1	31
31	Pulsing Liquid Alloys for Nanomaterials Synthesis. *ACS Nano*, **2020**, 14, 14070-14079	16.7	31
30	Strongly enhanced photoluminescence in nanostructured monolayer MoS2 by chemical vapor deposition. *Nanotechnology*, **2016**, 27, 135706	3.4	28
29	Phosphorene: An emerging 2D material. *Journal of Materials Research*, **2017**, 32, 2839-2847	2.5	26
28	Liquid metal core–shell structures functionalised via mechanical agitation: the example of Field's metal. *Journal of Materials Chemistry A*, **2019**, 7, 17876-17887	13	26
27	Peculiar piezoelectricity of atomically thin planar structures. *Nanoscale*, **2020**, 12, 2875-2901	7.7	25
26	Liquid Metal-Based Route for Synthesizing and Tuning Gas-Sensing Elements. *ACS Sensors*, **2020**, 5, 1177–1189	9.1	23
25	Self-Deposition of 2D Molybdenum Sulfides on Liquid Metals. *Advanced Functional Materials*, **2021**, 31, 2005866	15.6	22
24	Photolithography-enabled direct patterning of liquid metals. *Journal of Materials Chemistry C*, **2020**, 8, 7805-7811	7.1	18
23	Liquid metal-supported synthesis of cupric oxide. *Journal of Materials Chemistry C*, **2020**, 8, 1656-1665	7.1	18
22	Maximum piezoelectricity in a few unit-cell thick planar ZnO – A liquid metal-based synthesis approach. *Materials Today*, **2021**, 44, 69-77	21.8	16
21	Illumination-Induced Phase Segregation and Suppressed Solubility Limit in Br-Rich Mixed-Halide Inorganic Perovskites. *ACS Applied Materials & Interfaces*, **2020**, 12, 38376-38385	9.5	15

20	Intermetallic wetting enabled high resolution liquid metal patterning for 3D and flexible electronics. *Journal of Materials Chemistry C*,	7.1	12
19	Boundary-Induced Auxiliary Features in Scattering-Type Near-Field Fourier Transform Infrared Spectroscopy. *ACS Nano*, **2020**, 14, 1123-1132	16.7	11
18	Gallium-Based Liquid Metal Reaction Media for Interfacial Precipitation of Bismuth Nanomaterials with Controlled Phases and Morphologies. *Advanced Functional Materials*,2108673	15.6	10
17	Bismuth telluride topological insulator synthesized using liquid metal alloys: Test of NO2 selective sensing. *Applied Materials Today*, **2021**, 22, 100954	6.6	10
16	Optical properties of phosphorene. *Chinese Physics B*, **2017**, 26, 034201	1.2	9
15	Polydopamine Shell as a Ga Reservoir for Triggering Gallium-Indium Phase Separation in Eutectic Gallium-Indium Nanoalloys. *ACS Nano*, **2021**, 15, 16839-16850	16.7	8
14	Near-Field Excited Archimedean-like Tiling Patterns in Phonon-Polaritonic Crystals. *ACS Nano*, **2021**, 15, 9134-9142	16.7	8
13	Liquid-Metal-Enabled Mechanical-Energy-Induced CO Conversion. *Advanced Materials*, **2021**, e2105789	24	7
12	Elastic and Inelastic Light□Matter Interactions in 2D Materials. *IEEE Journal of Selected Topics in Quantum Electronics*, **2017**, 23, 206-213	3.8	6
11	Liquid-Metal-Assisted Deposition and Patterning of Molybdenum Dioxide at Low Temperature. *ACS Applied Materials & Interfaces*, **2021**,	9.5	6
10	Oscillatory bifurcation patterns initiated by seeded surface solidification of liquid metals **2022**, 1, 158-169		4
9	Axial localization and tracking of self-interference nanoparticles by lateral point spread functions. *Nature Communications*, **2021**, 12, 2019	17.4	4
8	Ultra-sensitive photon sensor based on self-assembled nanoparticle plasmonic membrane resonator **2016**,		2
7	Cell-Mediated Biointerfacial Phenolic Assembly for Probiotic Nano Encapsulation. *Advanced Functional Materials*,2200775	15.6	2
6	Black phosphorus: Light-matter interactions and potential applications **2020**, 159-173		1
5	High-Q Phonon-polaritons in Spatially Confined Freestanding □MoO3. *ACS Photonics*, **2022**, 9, 905-913	6.3	1
4	Liquid state of post-transition metals for interfacial synthesis of two-dimensional materials. *Applied Physics Reviews*, **2022**, 9, 021306	17.3	1
3	Induction heating for the removal of liquid metal-based implant mimics: A proof-of-concept. *Applied Materials Today*, **2022**, 27, 101459	6.6	0

List of Publications

2 Phosphorene Characterization **2019**, 47-66

1 An Introduction of 2D Materials for Nanophotonic Devices **2019**, 1-21