

Jiong Yang

List of Publications by Year in Descending Order

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Version: 2024-04-26

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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.

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	Oscillatory bifurcation patterns initiated by seeded surface solidification of liquid metals 2022 , 1, 158-169		4
54	High-Q Phonon-polaritons in Spatially Confined Freestanding β -MoO ₃ . <i>ACS Photonics</i> , 2022 , 9, 905-913	6.3	1
53	Induction heating for the removal of liquid metal-based implant mimics: A proof-of-concept. <i>Applied Materials Today</i> , 2022 , 27, 101459	6.6	0
52	Liquid state of post-transition metals for interfacial synthesis of two-dimensional materials. <i>Applied Physics Reviews</i> , 2022 , 9, 021306	17.3	1
51	Liquid-Metal-Enabled Mechanical-Energy-Induced CO Conversion. <i>Advanced Materials</i> , 2021 , e2105789	24	7
50	Polydopamine Shell as a Ga Reservoir for Triggering Gallium-Indium Phase Separation in Eutectic Gallium-Indium Nanoalloys. <i>ACS Nano</i> , 2021 , 15, 16839-16850	16.7	8
49	Liquid-Metal-Assisted Deposition and Patterning of Molybdenum Dioxide at Low Temperature. <i>ACS Applied Materials & Interfaces</i> , 2021 ,	9.5	6
48	Bismuth telluride topological insulator synthesized using liquid metal alloys: Test of NO ₂ selective sensing. <i>Applied Materials Today</i> , 2021 , 22, 100954	6.6	10
47	Near-Field Excited Archimedean-like Tiling Patterns in Phonon-Polaritonic Crystals. <i>ACS Nano</i> , 2021 , 15, 9134-9142	16.7	8
46	Axial localization and tracking of self-interference nanoparticles by lateral point spread functions. <i>Nature Communications</i> , 2021 , 12, 2019	17.4	4
45	Maximum piezoelectricity in a few unit-cell thick planar ZnO \square A liquid metal-based synthesis approach. <i>Materials Today</i> , 2021 , 44, 69-77	21.8	16
44	Self-Deposition of 2D Molybdenum Sulfides on Liquid Metals. <i>Advanced Functional Materials</i> , 2021 , 31, 2005866	15.6	22
43	Polyphenol-Induced Adhesive Liquid Metal Inks for Substrate-Independent Direct Pen Writing. <i>Advanced Functional Materials</i> , 2021 , 31, 2007336	15.6	37
42	Unique surface patterns emerging during solidification of liquid metal alloys. <i>Nature Nanotechnology</i> , 2021 , 16, 431-439	28.7	46
41	Photolithography-enabled direct patterning of liquid metals. <i>Journal of Materials Chemistry C</i> , 2020 , 8, 7805-7811	7.1	18
40	Liquid-Metal-Templated Synthesis of 2D Graphitic Materials at Room Temperature. <i>Advanced Materials</i> , 2020 , 32, e2001997	24	44
39	Liquid Metal-Based Route for Synthesizing and Tuning Gas-Sensing Elements. <i>ACS Sensors</i> , 2020 , 5, 1177-1189	23	23

38	Liquid metal-based synthesis of high performance monolayer SnS piezoelectric nanogenerators. <i>Nature Communications</i> , 2020 , 11, 3449	17.4	69
37	Peculiar piezoelectricity of atomically thin planar structures. <i>Nanoscale</i> , 2020 , 12, 2875-2901	7.7	25
36	Liquid metal-supported synthesis of cupric oxide. <i>Journal of Materials Chemistry C</i> , 2020 , 8, 1656-1665	7.1	18
35	Boundary-Induced Auxiliary Features in Scattering-Type Near-Field Fourier Transform Infrared Spectroscopy. <i>ACS Nano</i> , 2020 , 14, 1123-1132	16.7	11
34	Black phosphorus: Light-matter interactions and potential applications 2020 , 159-173		1
33	Illumination-Induced Phase Segregation and Suppressed Solubility Limit in Br-Rich Mixed-Halide Inorganic Perovskites. <i>ACS Applied Materials & Interfaces</i> , 2020 , 12, 38376-38385	9.5	15
32	Pulsing Liquid Alloys for Nanomaterials Synthesis. <i>ACS Nano</i> , 2020 , 14, 14070-14079	16.7	31
31	Magnetic and Conductive Liquid Metal Gels. <i>ACS Applied Materials & Interfaces</i> , 2020 , 12, 20119-20128	9.5	40
30	Electronic Skins Based on Liquid Metals. <i>Proceedings of the IEEE</i> , 2019 , 107, 2168-2184	14.3	45
29	Liquid metals for tuning gas sensitive layers. <i>Journal of Materials Chemistry C</i> , 2019 , 7, 6375-6382	7.1	31
28	Many-Body Complexes in 2D Semiconductors. <i>Advanced Materials</i> , 2019 , 31, e1706945	24	199
27	Liquid metal core-shell structures functionalised via mechanical agitation: the example of Field's metal. <i>Journal of Materials Chemistry A</i> , 2019 , 7, 17876-17887	13	26
26	Self-Limiting Galvanic Growth of MnO ₂ Monolayers on a Liquid Metal Applied to Photocatalysis. <i>Advanced Functional Materials</i> , 2019 , 29, 1901649	15.6	81
25	Advantages of eutectic alloys for creating catalysts in the realm of nanotechnology-enabled metallurgy. <i>Nature Communications</i> , 2019 , 10, 4645	17.4	39
24	Phosphorene Characterization 2019 , 47-66		
23	An Introduction of 2D Materials for Nanophotonic Devices 2019 , 1-21		
22	High-Efficiency Monolayer Molybdenum Ditelluride Light-Emitting Diode and Photodetector. <i>ACS Applied Materials & Interfaces</i> , 2018 , 10, 43291-43298	9.5	39
21	Efficient and Layer-Dependent Exciton Pumping across Atomically Thin Organic-Inorganic Type-I Heterostructures. <i>Advanced Materials</i> , 2018 , 30, e1803986	24	46

20	Elastic and Inelastic Light-Matter Interactions in 2D Materials. <i>IEEE Journal of Selected Topics in Quantum Electronics</i> , 2017 , 23, 206-213	3.8	6
19	Optical properties of phosphorene. <i>Chinese Physics B</i> , 2017 , 26, 034201	1.2	9
18	Phosphorene: An emerging 2D material. <i>Journal of Materials Research</i> , 2017 , 32, 2839-2847	2.5	26
17	Excited State Biexcitons in Atomically Thin MoSe. <i>ACS Nano</i> , 2017 , 11, 7468-7475	16.7	44
16	Manipulation of photoluminescence of two-dimensional MoSe ₂ by gold nanoantennas. <i>Scientific Reports</i> , 2016 , 6, 22296	4.9	60
15	Exciton Brightening in Monolayer Phosphorene via Dimensionality Modification. <i>Advanced Materials</i> , 2016 , 28, 3493-8	24	41
14	Producing air-stable monolayers of phosphorene and their defect engineering. <i>Nature Communications</i> , 2016 , 7, 10450	17.4	358
13	Strongly enhanced photoluminescence in nanostructured monolayer MoS ₂ by chemical vapor deposition. <i>Nanotechnology</i> , 2016 , 27, 135706	3.4	28
12	Ultra-sensitive photon sensor based on self-assembled nanoparticle plasmonic membrane resonator 2016 ,		2
11	Atomically thin optical lenses and gratings. <i>Light: Science and Applications</i> , 2016 , 5, e16046	16.7	85
10	Extraordinarily Bound Quasi-One-Dimensional Trions in Two-Dimensional Phosphorene Atomic Semiconductors. <i>ACS Nano</i> , 2016 , 10, 2046-53	16.7	75
9	Layer-dependent surface potential of phosphorene and anisotropic/layer-dependent charge transfer in phosphorene-gold hybrid systems. <i>Nanoscale</i> , 2016 , 8, 129-35	7.7	54
8	Light-Matter Interactions in Phosphorene. <i>Accounts of Chemical Research</i> , 2016 , 49, 1806-15	24.3	89
7	Optical tuning of exciton and trion emissions in monolayer phosphorene. <i>Light: Science and Applications</i> , 2015 , 4, e312-e312	16.7	226
6	Exciton and Trion Dynamics in Bilayer MoS ₂ . <i>Small</i> , 2015 , 11, 6384-90	11	61
5	Robust Excitons and Trions in Monolayer MoTe ₂ . <i>ACS Nano</i> , 2015 , 9, 6603-9	16.7	114
4	Extraordinary photoluminescence and strong temperature/angle-dependent Raman responses in few-layer phosphorene. <i>ACS Nano</i> , 2014 , 8, 9590-6	16.7	529
3	Gallium-Based Liquid Metal Reaction Media for Interfacial Precipitation of Bismuth Nanomaterials with Controlled Phases and Morphologies. <i>Advanced Functional Materials</i> , 2108673	15.6	10

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| 2 | Intermetallic wetting enabled high resolution liquid metal patterning for 3D and flexible electronics. <i>Journal of Materials Chemistry C</i> , | 7.1 | 12 |
| 1 | Cell-Mediated Biointerfacial Phenolic Assembly for Probiotic Nano Encapsulation. <i>Advanced Functional Materials</i> ,2200775 | 15.6 | 2 |