

Jianbo Tang

List of Publications by Year in descending order

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69
papers

3,182
citations

159585

30
h-index

175258

52
g-index

75
all docs

75
docs citations

75
times ranked

2100
citing authors

#	ARTICLE	IF	CITATIONS
1	Post-Transition Metal Electrodes for Sensing Heavy Metal Ions by Stripping Voltammetry. <i>Advanced Materials Technologies</i> , 2022, 7, 2100760.	5.8	24
2	Liquid-Metal-Enabled Mechanical-Energy-Induced CO ₂ Conversion. <i>Advanced Materials</i> , 2022, 34, e2105789.	21.0	58
3	Gallium-Based Liquid Metal Reaction Media for Interfacial Precipitation of Bismuth Nanomaterials with Controlled Phases and Morphologies. <i>Advanced Functional Materials</i> , 2022, 32, .	14.9	28
4	Intermetallic wetting enabled high resolution liquid metal patterning for 3D and flexible electronics. <i>Journal of Materials Chemistry C</i> , 2022, 10, 921-931.	5.5	45
5	Noncontact rotation, levitation, and acceleration of flowing liquid metal wires. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2022, 119, .	7.1	17
6	Oscillatory bifurcation patterns initiated by seeded surface solidification of liquid metals. , 2022, 1, 158-169.		15
7	High-Q Phonon-polaritons in Spatially Confined Freestanding $\hat{\pm}$ -MoO ₃ . <i>ACS Photonics</i> , 2022, 9, 905-913.	6.6	15
8	Soft Liquid Metal Infused Conductive Sponges. <i>Advanced Materials Technologies</i> , 2022, 7, .	5.8	24
9	Induction heating for the removal of liquid metal-based implant mimics: A proof-of-concept. <i>Applied Materials Today</i> , 2022, 27, 101459.	4.3	7
10	Low Temperature Nano Mechano-electrocatalytic CH ₄ Conversion. <i>ACS Nano</i> , 2022, 16, 8684-8693.	14.6	19
11	Gallium Nanodroplets are Anti-Inflammatory without Interfering with Iron Homeostasis. <i>ACS Nano</i> , 2022, 16, 8891-8903.	14.6	33
12	Insights into the Interfacial Contact and Charge Transport of Gas-Sensing Liquid Metal Marbles. <i>ACS Applied Materials & Interfaces</i> , 2022, 14, 30112-30123.	8.0	9
13	Low-temperature liquid platinum catalyst. <i>Nature Chemistry</i> , 2022, 14, 935-941.	13.6	61
14	Self-Deposition of 2D Molybdenum Sulfides on Liquid Metals. <i>Advanced Functional Materials</i> , 2021, 31, 2005866.	14.9	41
15	Carbonization of low thermal stability polymers at the interface of liquid metals. <i>Carbon</i> , 2021, 171, 938-945.	10.3	5
16	Polyphenol-Induced Adhesive Liquid Metal Inks for Substrate-Independent Direct Pen Writing. <i>Advanced Functional Materials</i> , 2021, 31, 2007336.	14.9	84
17	Unique surface patterns emerging during solidification of liquid metal alloys. <i>Nature Nanotechnology</i> , 2021, 16, 431-439.	31.5	104
18	Liquid Metal-Triggered Assembly of Phenolic Nanocoatings with Antioxidant and Antibacterial Properties. <i>ACS Applied Nano Materials</i> , 2021, 4, 2987-2998.	5.0	26

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19	Bismuth telluride topological insulator synthesized using liquid metal alloys: Test of NO ₂ selective sensing. <i>Applied Materials Today</i> , 2021, 22, 100954.	4.3	18
20	Near-Field Excited Archimedean-like Tiling Patterns in Phonon-Polaritonic Crystals. <i>ACS Nano</i> , 2021, 15, 9134-9142.	14.6	21
21	Low Melting Temperature Liquid Metals and Their Impacts on Physical Chemistry. <i>Accounts of Materials Research</i> , 2021, 2, 577-580.	11.7	32
22	Complementary bulk and surface passivations for highly efficient perovskite solar cells by gas quenching. <i>Cell Reports Physical Science</i> , 2021, 2, 100511.	5.6	21
23	Nanotip Formation from Liquid Metals for Soft Electronic Junctions. <i>ACS Applied Materials & Interfaces</i> , 2021, 13, 43247-43257.	8.0	17
24	Doping Process of 2D Materials Based on the Selective Migration of Dopants to the Interface of Liquid Metals. <i>Advanced Materials</i> , 2021, 33, e2104793.	21.0	38
25	Post-transition metal/polymer composites for the separation and sensing of alkali metal ions. <i>Journal of Materials Chemistry A</i> , 2021, 9, 19854-19864.	10.3	12
26	Polydopamine Shell as a Ga ³⁺ Reservoir for Triggering Gallium-Indium Phase Separation in Eutectic Gallium-Indium Nanoalloys. <i>ACS Nano</i> , 2021, 15, 16839-16850.	14.6	27
27	Liquid-Metal-Assisted Deposition and Patterning of Molybdenum Dioxide at Low Temperature. <i>ACS Applied Materials & Interfaces</i> , 2021, 13, 53181-53193.	8.0	19
28	Exploring Interfacial Graphene Oxide Reduction by Liquid Metals: Application in Selective Biosensing. <i>ACS Nano</i> , 2021, 15, 19661-19671.	14.6	52
29	Liquid metal enabled continuous flow reactor: A proof-of-concept. <i>Matter</i> , 2021, 4, 4022-4041.	10.0	20
30	Liquid Metal Droplet and Graphene Co-Fillers for Electrically Conductive Flexible Composites. <i>Small</i> , 2020, 16, e1903753.	10.0	102
31	Liquid metal-supported synthesis of cupric oxide. <i>Journal of Materials Chemistry C</i> , 2020, 8, 1656-1665.	5.5	27
32	Boundary-Induced Auxiliary Features in Scattering-Type Near-Field Fourier Transform Infrared Spectroscopy. <i>ACS Nano</i> , 2020, 14, 1123-1132.	14.6	15
33	Catalytic Metal Foam by Chemical Melting and Sintering of Liquid Metal Nanoparticles. <i>Advanced Functional Materials</i> , 2020, 30, 1907879.	14.9	53
34	Liquid Metals in Catalysis for Energy Applications. <i>Joule</i> , 2020, 4, 2290-2321.	24.0	106
35	P-type Charge Transport and Selective Gas Sensing of All-Inorganic Perovskite Nanocrystals. , 2020, 2, 1368-1374.		40
36	Ultra-thin lead oxide piezoelectric layers for reduced environmental contamination using a liquid metal-based process. <i>Journal of Materials Chemistry A</i> , 2020, 8, 19434-19443.	10.3	29

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37	Pulsing Liquid Alloys for Nanomaterials Synthesis. ACS Nano, 2020, 14, 14070-14079.	14.6	52
38	Gallium nitride formation in liquid metal sonication. Journal of Materials Chemistry C, 2020, 8, 16593-16602.	5.5	32
39	Nucleation and Growth of Polyaniline Nanofibers onto Liquid Metal Nanoparticles. Chemistry of Materials, 2020, 32, 4808-4819.	6.7	75
40	Bi- μ Sn Catalytic Foam Governed by Nanometallurgy of Liquid Metals. Nano Letters, 2020, 20, 4403-4409.	9.1	46
41	Photolithography-enabled direct patterning of liquid metals. Journal of Materials Chemistry C, 2020, 8, 7805-7811.	5.5	32
42	Exploring Electrochemical Extrusion of Wires from Liquid Metals. ACS Applied Materials & Interfaces, 2020, 12, 31010-31020.	8.0	34
43	Liquid-Metal-templated Synthesis of 2D Graphitic Materials at Room Temperature. Advanced Materials, 2020, 32, e2001997.	21.0	63
44	Uncovering Atomic-scale Stability and Reactivity in Engineered Zinc Oxide Electrocatalysts for Controllable Syngas Production. Advanced Energy Materials, 2020, 10, 2001381.	19.5	51
45	Liquid Metal-Based Route for Synthesizing and Tuning Gas-Sensing Elements. ACS Sensors, 2020, 5, 1177-1189.	7.8	34
46	Magnetic and Conductive Liquid Metal Gels. ACS Applied Materials & Interfaces, 2020, 12, 20119-20128.	8.0	73
47	Quantized orbital-chasing liquid metal heterodimers directed by an integrated pilot-wave field. Physical Review Fluids, 2020, 5, .	2.5	7
48	Liquid metal core-shell structures functionalised <i>via</i> mechanical agitation: the example of Field's metal. Journal of Materials Chemistry A, 2019, 7, 17876-17887.	10.3	42
49	Self-limiting Galvanic Growth of MnO ₂ Monolayers on a Liquid Metal Applied to Photocatalysis. Advanced Functional Materials, 2019, 29, 1901649.	14.9	129
50	Advantages of eutectic alloys for creating catalysts in the realm of nanotechnology-enabled metallurgy. Nature Communications, 2019, 10, 4645.	12.8	76
51	Emergence of Liquid Metals in Nanotechnology. ACS Nano, 2019, 13, 7388-7395.	14.6	269
52	Liquid metals for tuning gas sensitive layers. Journal of Materials Chemistry C, 2019, 7, 6375-6382.	5.5	46
53	Soft and Moldable Mg-doped Liquid Metal for Conformable Skin Tumor Photothermal Therapy. Advanced Healthcare Materials, 2018, 7, e1800318.	7.6	116
54	One-step Liquid Metal Transfer Printing: Toward Fabrication of Flexible Electronics on Wide Range of Substrates. Advanced Materials Technologies, 2018, 3, 1800265.	5.8	112

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55	Thin, Porous, and Conductive Networks of Metal Nanoparticles through Electrochemical Welding on a Liquid Metal Template. <i>Advanced Materials Interfaces</i> , 2018, 5, 1800406.	3.7	23
56	A highly conductive and stretchable wearable liquid metal electronic skin for long-term conformable health monitoring. <i>Science China Technological Sciences</i> , 2018, 61, 1031-1037.	4.0	78
57	Electrically switchable surface waves and bouncing droplets excited on a liquid metal bath. <i>Physical Review Fluids</i> , 2018, 3, .	2.5	18
58	Liquid Metal Phagocytosis: Intermetallic Wetting Induced Particle Internalization. <i>Advanced Science</i> , 2017, 4, 1700024.	11.2	133
59	Surface effects of liquid metal amoeba. <i>Science Bulletin</i> , 2017, 62, 700-706.	9.0	23
60	Triggering and Tracing Electrohydrodynamic Liquid-Metal Surface Convection with a Particle Raft. <i>Advanced Materials Interfaces</i> , 2017, 4, 1700939.	3.7	20
61	Gallium-Based Liquid Metal Amalgams: Transitional-State Metallic Mixtures (TransM ² ixes) with Enhanced and Tunable Electrical, Thermal, and Mechanical Properties. <i>ACS Applied Materials & Interfaces</i> , 2017, 9, 35977-35987.	8.0	242
62	Surfing liquid metal droplet on the same metal bath via electrolyte interface. <i>Applied Physics Letters</i> , 2017, 111, .	3.3	14
63	Electrohydrodynamics: Triggering and Tracing Electrohydrodynamic Liquid-Metal Surface Convection with a Particle Raft (<i>Adv. Mater. Interfaces</i> 22/2017). <i>Advanced Materials Interfaces</i> , 2017, 4, .	3.7	0
64	Gas eruption phenomenon happening from Ga-In alloy in NaOH electrolyte. <i>Applied Physics Letters</i> , 2017, 111, .	3.3	10
65	Jumping liquid metal droplet in electrolyte triggered by solid metal particles. <i>Applied Physics Letters</i> , 2016, 108, .	3.3	28
66	A volatile fluid assisted thermo-pneumatic liquid metal energy harvester. <i>Applied Physics Letters</i> , 2016, 108, .	3.3	18
67	Influence of driving fluid properties on the performance of liquid-driving ejector. <i>International Journal of Heat and Mass Transfer</i> , 2016, 101, 20-26.	4.8	6
68	Liquid metal actuated ejector vacuum system. <i>Applied Physics Letters</i> , 2015, 106, .	3.3	9
69	Advance in research of several types of streaming of pulse tube refrigerators. <i>Science China Technological Sciences</i> , 2013, 56, 2690-2701.	4.0	2