

# 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	Emergence of Liquid Metals in Nanotechnology. ACS Nano, 2019, 13, 7388-7395.	14.6	269
2	Gallium-Based Liquid Metal Amalgams: Transitional-State Metallic Mixtures (TransM <sup>2</sup> ixes) with Enhanced and Tunable Electrical, Thermal, and Mechanical Properties. ACS Applied Materials & Interfaces, 2017, 9, 35977-35987.	8.0	242
3	Liquid Metal Phagocytosis: Intermetallic Wetting Induced Particle Internalization. Advanced Science, 2017, 4, 1700024.	11.2	133
4	Self-Limiting Galvanic Growth of MnO <sub>2</sub> Monolayers on a Liquid Metal Applied to Photocatalysis. Advanced Functional Materials, 2019, 29, 1901649.	14.9	129
5	Soft and Moldable Mg-Doped Liquid Metal for Conformable Skin Tumor Photothermal Therapy. Advanced Healthcare Materials, 2018, 7, e1800318.	7.6	116
6	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
7	Liquid Metals in Catalysis for Energy Applications. Joule, 2020, 4, 2290-2321.	24.0	106
8	Unique surface patterns emerging during solidification of liquid metal alloys. Nature Nanotechnology, 2021, 16, 431-439.	31.5	104
9	Liquid Metal Droplet and Graphene Co-Fillers for Electrically Conductive Flexible Composites. Small, 2020, 16, e1903753.	10.0	102
10	Polyphenol-Induced Adhesive Liquid Metal Inks for Substrate-Independent Direct Pen Writing. Advanced Functional Materials, 2021, 31, 2007336.	14.9	84
11	A highly conductive and stretchable wearable liquid metal electronic skin for long-term conformable health monitoring. Science China Technological Sciences, 2018, 61, 1031-1037.	4.0	78
12	Advantages of eutectic alloys for creating catalysts in the realm of nanotechnology-enabled metallurgy. Nature Communications, 2019, 10, 4645.	12.8	76
13	Nucleation and Growth of Polyaniline Nanofibers onto Liquid Metal Nanoparticles. Chemistry of Materials, 2020, 32, 4808-4819.	6.7	75
14	Magnetic and Conductive Liquid Metal Gels. ACS Applied Materials & Interfaces, 2020, 12, 20119-20128.	8.0	73
15	Liquid-Metal-Templated Synthesis of 2D Graphitic Materials at Room Temperature. Advanced Materials, 2020, 32, e2001997.	21.0	63
16	Low-temperature liquid platinum catalyst. Nature Chemistry, 2022, 14, 935-941.	13.6	61
17	Liquid-Metal-Enabled Mechanical-Energy-Induced CO <sub>2</sub> Conversion. Advanced Materials, 2022, 34, e2105789.	21.0	58
18	Catalytic Metal Foam by Chemical Melting and Sintering of Liquid Metal Nanoparticles. Advanced Functional Materials, 2020, 30, 1907879.	14.9	53

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19	Pulsing Liquid Alloys for Nanomaterials Synthesis. ACS Nano, 2020, 14, 14070-14079.	14.6	52
20	Exploring Interfacial Graphene Oxide Reduction by Liquid Metals: Application in Selective Biosensing. ACS Nano, 2021, 15, 19661-19671.	14.6	52
21	Uncovering Atomic-Scale Stability and Reactivity in Engineered Zinc Oxide Electrocatalysts for Controllable Syngas Production. Advanced Energy Materials, 2020, 10, 2001381.	19.5	51
22	Liquid metals for tuning gas sensitive layers. Journal of Materials Chemistry C, 2019, 7, 6375-6382.	5.5	46
23	Bi-Sn Catalytic Foam Governed by Nanometallurgy of Liquid Metals. Nano Letters, 2020, 20, 4403-4409.	9.1	46
24	Intermetallic wetting enabled high resolution liquid metal patterning for 3D and flexible electronics. Journal of Materials Chemistry C, 2022, 10, 921-931.	5.5	45
25	Liquid metal core-shell structures functionalised via mechanical agitation: the example of Field's metal. Journal of Materials Chemistry A, 2019, 7, 17876-17887.	10.3	42
26	Self-Deposition of 2D Molybdenum Sulfides on Liquid Metals. Advanced Functional Materials, 2021, 31, 2005866.	14.9	41
27	P-type Charge Transport and Selective Gas Sensing of All-Inorganic Perovskite Nanocrystals. , 2020, 2, 1368-1374.		40
28	Doping Process of 2D Materials Based on the Selective Migration of Dopants to the Interface of Liquid Metals. Advanced Materials, 2021, 33, e2104793.	21.0	38
29	Exploring Electrochemical Extrusion of Wires from Liquid Metals. ACS Applied Materials & Interfaces, 2020, 12, 31010-31020.	8.0	34
30	Liquid Metal-Based Route for Synthesizing and Tuning Gas-Sensing Elements. ACS Sensors, 2020, 5, 1177-1189.	7.8	34
31	Gallium Nanodroplets are Anti-Inflammatory without Interfering with Iron Homeostasis. ACS Nano, 2022, 16, 8891-8903.	14.6	33
32	Gallium nitride formation in liquid metal sonication. Journal of Materials Chemistry C, 2020, 8, 16593-16602.	5.5	32
33	Photolithography-enabled direct patterning of liquid metals. Journal of Materials Chemistry C, 2020, 8, 7805-7811.	5.5	32
34	Low Melting Temperature Liquid Metals and Their Impacts on Physical Chemistry. Accounts of Materials Research, 2021, 2, 577-580.	11.7	32
35	Ultra-thin lead oxide piezoelectric layers for reduced environmental contamination using a liquid metal-based process. Journal of Materials Chemistry A, 2020, 8, 19434-19443.	10.3	29
36	Jumping liquid metal droplet in electrolyte triggered by solid metal particles. Applied Physics Letters, 2016, 108, .	3.3	28

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37	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
38	Liquid metal-supported synthesis of cupric oxide. <i>Journal of Materials Chemistry C</i> , 2020, 8, 1656-1665.	5.5	27
39	Polydopamine Shell as a Ga <sup>3+</sup> Reservoir for Triggering Gallium-Indium Phase Separation in Eutectic Gallium-Indium Nanoalloys. <i>ACS Nano</i> , 2021, 15, 16839-16850.	14.6	27
40	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
41	Post-Transition Metal Electrodes for Sensing Heavy Metal Ions by Stripping Voltammetry. <i>Advanced Materials Technologies</i> , 2022, 7, 2100760.	5.8	24
42	Soft Liquid Metal Infused Conductive Sponges. <i>Advanced Materials Technologies</i> , 2022, 7, .	5.8	24
43	Surface effects of liquid metal amoeba. <i>Science Bulletin</i> , 2017, 62, 700-706.	9.0	23
44	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
45	Near-Field Excited Archimedean-like Tiling Patterns in Phonon-Polaritonic Crystals. <i>ACS Nano</i> , 2021, 15, 9134-9142.	14.6	21
46	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
47	Triggering and Tracing Electrohydrodynamic Liquid-Metal Surface Convection with a Particle Raft. <i>Advanced Materials Interfaces</i> , 2017, 4, 1700939.	3.7	20
48	Liquid metal enabled continuous flow reactor: A proof-of-concept. <i>Matter</i> , 2021, 4, 4022-4041.	10.0	20
49	Liquid-Metal-Assisted Deposition and Patterning of Molybdenum Dioxide at Low Temperature. <i>ACS Applied Materials &amp; Interfaces</i> , 2021, 13, 53181-53193.	8.0	19
50	Low Temperature Nano Mechano-electrocatalytic CH <sub>4</sub> Conversion. <i>ACS Nano</i> , 2022, 16, 8684-8693.	14.6	19
51	A volatile fluid assisted thermo-pneumatic liquid metal energy harvester. <i>Applied Physics Letters</i> , 2016, 108, .	3.3	18
52	Bismuth telluride topological insulator synthesized using liquid metal alloys: Test of NO <sub>2</sub> selective sensing. <i>Applied Materials Today</i> , 2021, 22, 100954.	4.3	18
53	Electrically switchable surface waves and bouncing droplets excited on a liquid metal bath. <i>Physical Review Fluids</i> , 2018, 3, .	2.5	18
54	Nanotip Formation from Liquid Metals for Soft Electronic Junctions. <i>ACS Applied Materials &amp; Interfaces</i> , 2021, 13, 43247-43257.	8.0	17

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55	Noncontact rotation, levitation, and acceleration of flowing liquid metal wires. Proceedings of the National Academy of Sciences of the United States of America, 2022, 119, .	7.1	17
56	Boundary-Induced Auxiliary Features in Scattering-Type Near-Field Fourier Transform Infrared Spectroscopy. ACS Nano, 2020, 14, 1123-1132.	14.6	15
57	Oscillatory bifurcation patterns initiated by seeded surface solidification of liquid metals. , 2022, 1, 158-169.		15
58	High-Q Phonon-polaritons in Spatially Confined Freestanding $\text{MoO}_3$ . ACS Photonics, 2022, 9, 905-913.	6.6	15
59	Surfing liquid metal droplet on the same metal bath via electrolyte interface. Applied Physics Letters, 2017, 111, .	3.3	14
60	Post-transition metal/polymer composites for the separation and sensing of alkali metal ions. Journal of Materials Chemistry A, 2021, 9, 19854-19864.	10.3	12
61	Gas eruption phenomenon happening from Ga-In alloy in NaOH electrolyte. Applied Physics Letters, 2017, 111, .	3.3	10
62	Liquid metal actuated ejector vacuum system. Applied Physics Letters, 2015, 106, .	3.3	9
63	Insights into the Interfacial Contact and Charge Transport of Gas-Sensing Liquid Metal Marbles. ACS Applied Materials & Interfaces, 2022, 14, 30112-30123.	8.0	9
64	Quantized orbital-chasing liquid metal heterodimers directed by an integrated pilot-wave field. Physical Review Fluids, 2020, 5, .	2.5	7
65	Induction heating for the removal of liquid metal-based implant mimics: A proof-of-concept. Applied Materials Today, 2022, 27, 101459.	4.3	7
66	Influence of driving fluid properties on the performance of liquid-driving ejector. International Journal of Heat and Mass Transfer, 2016, 101, 20-26.	4.8	6
67	Carbonization of low thermal stability polymers at the interface of liquid metals. Carbon, 2021, 171, 938-945.	10.3	5
68	Advance in research of several types of streaming of pulse tube refrigerators. Science China Technological Sciences, 2013, 56, 2690-2701.	4.0	2
69	Electrohydrodynamics: Triggering and Tracing Electrohydrodynamic Liquid-Metal Surface Convection with a Particle Raft (Adv. Mater. Interfaces 22/2017). Advanced Materials Interfaces, 2017, 4, .	3.7	0