

List of Publications by Year in
Descending Order

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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.

253 papers	9,073 citations	55 h-index	82 g-index
279 ext. papers	11,322 ext. citations	6.3 avg, IF	7.05 L-index

#	Paper	IF	Citations
253	Formation of Multiphase Soft Metal from Compositing GaInSn and BiInSn Alloy Systems. <i>ACS Applied Electronic Materials</i> , 2022 , 4, 112-123	4	1
252	Liquid metal hydraulics paradigm: Transmission medium and actuation of bimodal signals. <i>Science China Technological Sciences</i> , 2022 , 65, 77	3.5	1
251	Perspective on gallium-based room temperature liquid metal batteries. <i>Frontiers in Energy</i> , 2022 , 16, 23-48	2.6	1
250	Magnetically tightened form-stable phase change materials with modular assembly and geometric conformality features.. <i>Nature Communications</i> , 2022 , 13, 1397	17.4	5
249	Liquid metal printed electronics towards ubiquitous electrical engineering. <i>Japanese Journal of Applied Physics</i> , 2022 , 61, SE0801	1.4	
248	Endosomal escapable cryo-treatment-driven membrane-encapsulated Ga liquid-metal transformer to facilitate intracellular therapy. <i>Matter</i> , 2021 ,	12.7	6
247	Liquid Metal-Enabled Soft Actuators for Untethered Manipulation. <i>Lecture Notes in Computer Science</i> , 2021 , 412-421	0.9	
246	Spatially selective adhesion enabled transfer printing of liquid metal for 3D electronic circuits. <i>Applied Materials Today</i> , 2021 , 25, 101236	6.6	5
245	High performance liquid metal thermal interface materials. <i>Nanotechnology</i> , 2021 , 32, 092001	3.4	20
244	Liquid Metal-Enabled Soft Logic Devices. <i>Advanced Intelligent Systems</i> , 2021 , 3, 2000246	6	3
243	Pressure sensing of liquid metal-based fiber arrays. <i>AIP Advances</i> , 2021 , 11, 035322	1.5	0
242	The Design and Manufacturing Process of an Electrolyte-Free Liquid Metal Frequency-Reconfigurable Antenna. <i>Sensors</i> , 2021 , 21,	3.8	7
241	Liquid Metal Foaming via Decomposition Agents. <i>ACS Applied Materials & Interfaces</i> , 2021 , 13, 17093-17103	9.3	1031
240	All-in-One ENERGISER design: Smart liquid metal-air battery. <i>Chemical Engineering Journal</i> , 2021 , 409, 128160	14.7	5
239	Cellulose Nanocrystals Facilitate Needle-like Ice Crystal Growth and Modulate Molecular Targeted Ice Crystal Nucleation. <i>Nano Letters</i> , 2021 , 21, 4868-4877	11.5	2
238	Gas-mediated liquid metal printing toward large-scale 2D semiconductors and ultraviolet photodetector. <i>Npj 2D Materials and Applications</i> , 2021 , 5,	8.8	10
237	Additive manufacture of low melting point metal porous materials: Capabilities, potential applications and challenges. <i>Materials Today</i> , 2021 , 49, 201-201	21.8	9

236	A Liquid Gripper Based on Phase Transitional Metallic Ferrofluid. <i>Advanced Functional Materials</i> , 2021 , 31, 2100274	15.6	19
235	Injectable Affinity and Remote Magnetothermal Effects of Bi-Based Alloy for Long-Term Bone Defect Repair and Analgesia. <i>Advanced Science</i> , 2021 , 8, e2100719	13.6	7
234	A Gravity-Triggered Liquid Metal Patch Antenna with Reconfigurable Frequency. <i>Micromachines</i> , 2021 , 12,	3.3	2
233	Low-melting-point liquid metal convective heat transfer: A review. <i>Applied Thermal Engineering</i> , 2021 , 193, 117021	5.8	13
232	Hydrochromic Visualization of a Keggin-Type Structure Triggered by Metallic Fluids for Liquid Displays, Reversible Writing, and Acidic Environment Detection. <i>ACS Applied Materials & Interfaces</i> , 2021 , 13, 36445-36454	9.5	0
231	Design of flexible multi-level topography for enhancing mechanical property. <i>Nano Select</i> , 2021 , 2, 541-548	3.4	6
230	Liquid metal technology in solar power generation - Basics and applications. <i>Solar Energy Materials and Solar Cells</i> , 2021 , 222, 110925	6.4	12
229	Multiple-Stimuli-Responsive and Cellulose Conductive Ionic Hydrogel for Smart Wearable Devices and Thermal Actuators. <i>ACS Applied Materials & Interfaces</i> , 2021 , 13, 1353-1366	9.5	37
228	Pervasive liquid metal printed electronics: From concept incubation to industry. <i>IScience</i> , 2021 , 24, 102026	3.1	10
227	Interfacial Engineering of Room Temperature Liquid Metals. <i>Advanced Materials Interfaces</i> , 2021 , 8, 2001936	4.8	10
226	Mussel-Inspired Multifunctional Integrated Liquid Metal-Based Magnetic Suspensions with Rheological, Magnetic, Electrical, and Thermal Reinforcement. <i>ACS Applied Materials & Interfaces</i> , 2021 , 13, 5256-5265	9.5	6
225	A stomata-inspired superhydrophobic portable filter system.. <i>RSC Advances</i> , 2021 , 11, 18783-18786	3.7	0
224	Extreme Wetting Properties of Liquid Metal 2021 , 195-208		
223	Nano-Biomedicine based on Liquid Metal Particles and Allied Materials. <i>Advanced NanoBiomed Research</i> , 2021 , 1, 2000086	0	9
222	An Integrated Soft Jumping Robotic Module Based on Liquid Metals. <i>Advanced Engineering Materials</i> , 2021 , 23, 2100515	3.5	1
221	Optimal design of micro-topography on natural leaf surface. <i>AIP Advances</i> , 2021 , 11, 095019	1.5	0
220	EGaIn Fiber Enabled Highly Flexible Supercapacitors. <i>ACS Omega</i> , 2021 , 6, 24444-24449	3.9	2
219	Liquid metal bubbles. <i>Applied Materials Today</i> , 2021 , 24, 101151	6.6	2

218	A new hydrodynamic interpretation of liquid metal droplet motion induced by an electrocapillary phenomenon. <i>Soft Matter</i> , 2021 , 17, 7835-7843	3.6	3
217	Paint release control of brush. <i>AIP Advances</i> , 2021 , 11, 015115	1.5	
216	Injectable Liquid Metal- and Methotrexate-Loaded Microsphere for Cancer Chemophotothermal Synergistic Therapy.. <i>ACS Applied Bio Materials</i> , 2020 , 3, 3553-3559	4.1	10
215	Liquid Metal Hybrid Platform-Mediated Ice-Fire Dual Noninvasive Conformable Melanoma Therapy. <i>ACS Applied Materials & Interfaces</i> , 2020 , 12, 27984-27993	9.5	25
214	Microribbons composed of directionally self-assembled nanoflakes as highly stretchable ionic neural electrodes. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2020 , 117, 14667-14675	11.5	29
213	Liquid metal enabled injectable biomedical technologies and applications. <i>Applied Materials Today</i> , 2020 , 20, 100722	6.6	21
212	Liquid Metal Composites. <i>Matter</i> , 2020 , 2, 1446-1480	12.7	122
211	Liquid metal-enabled cybernetic electronics. <i>Materials Today Physics</i> , 2020 , 14, 100245	8	16
210	Semisolid Al-Ga composites fabricated at room temperature for hydrogen generation.. <i>RSC Advances</i> , 2020 , 10, 10076-10081	3.7	8
209	Cu ₂ GaIn enabled stretchable e-skin for interactive electronics and CT assistant localization. <i>Materials Horizons</i> , 2020 , 7, 1845-1853	14.4	27
208	Smart semiliquid metal fibers with designed mechanical properties for room temperature stimulus response and liquid welding. <i>Applied Materials Today</i> , 2020 , 20, 100738	6.6	9
207	Supermetallophobic Functional Coatings Based on Silicate Clays and a Method To Pattern Liquid Metals. <i>ACS Applied Electronic Materials</i> , 2020 , 2, 2229-2241	4	3
206	Shape Control of Lotus Leaf Induced by Surface Submillimeter Texture. <i>Advanced Materials Interfaces</i> , 2020 , 7, 2000040	4.6	10
205	Lightweight Liquid Metal Entity. <i>Advanced Functional Materials</i> , 2020 , 30, 1910709	15.6	24
204	Advances in Liquid Metal-Enabled Flexible and Wearable Sensors. <i>Micromachines</i> , 2020 , 11,	3.3	39
203	Superelastic EGaIn Composite Fibers Sustaining 500% Tensile Strain with Superior Electrical Conductivity for Wearable Electronics. <i>ACS Applied Materials & Interfaces</i> , 2020 , 12, 6112-6118	9.5	52
202	Instant hydrogen production using Ga-In-Sn-Bi alloy-activated Al-water reaction for hydrogen fuel cells. <i>Journal of Renewable and Sustainable Energy</i> , 2020 , 12, 014701	2.5	9
201	Numerical investigation on integrated thermal management via liquid convection and phase change in packed bed of spherical low melting point metal macrocapsules. <i>International Journal of Heat and Mass Transfer</i> , 2020 , 150, 119366	4.9	7

200	Quantized orbital-chasing liquid metal heterodimers directed by an integrated pilot-wave field. <i>Physical Review Fluids</i> , 2020 , 5,	2.8	4
199	Liquid metal slingshot. <i>Physical Review Fluids</i> , 2020 , 5,	2.8	2
198	Soft liquid metal nanoparticles achieve reduced crystal nucleation and ultrarapid rewarming for human bone marrow stromal cell and blood vessel cryopreservation. <i>Acta Biomaterialia</i> , 2020 , 102, 403-415	10.8	18
197	Room temperature liquid metal: its melting point, dominating mechanism and applications. <i>Frontiers in Energy</i> , 2020 , 14, 81-104	2.6	10
196	Study on the nucleating agents for gallium to reduce its supercooling. <i>International Journal of Heat and Mass Transfer</i> , 2020 , 148, 119055	4.9	20
195	Injectable and Radiopaque Liquid Metal/Calcium Alginate Hydrogels for Endovascular Embolization and Tumor Embolotherapy. <i>Small</i> , 2020 , 16, e1903421	11	45
194	Liquid Metal-Based Magnetorheological Fluid with a Large Magnetocaloric Effect. <i>ACS Applied Materials & Interfaces</i> , 2020 , 12, 48748-48755	9.5	2
193	Al-NaOH-Composited Liquid Metal: A Fast-Response Water-Triggered Material with Thermal and Pneumatic Properties. <i>Engineering</i> , 2020 , 6, 1454-1462	9.7	1
192	Fabrication of BiInSn alloy powder via the combination of ultrasonic crushing with dispersants. <i>Powder Technology</i> , 2020 , 373, 614-619	5.2	2
191	A Fast and Cost-Effective Transfer Printing of Liquid Metal Inks for Three-Dimensional Wiring in Flexible Electronics. <i>ACS Applied Materials & Interfaces</i> , 2020 , 12, 36723-36730	9.5	19
190	Liquid Metal Microparticles Phase Change Medicated Mechanical Destruction for Enhanced Tumor Cryoablation and Dual-Mode Imaging. <i>Advanced Functional Materials</i> , 2020 , 30, 2003359	15.6	27
189	Low-Temperature Triggered Shape Transformation of Liquid Metal Microdroplets. <i>ACS Applied Materials & Interfaces</i> , 2020 , 12, 38386-38396	9.5	12
188	Printed Conformable Liquid Metal e-Skin-Enabled Spatiotemporally Controlled Bioelectromagnetics for Wireless Multisite Tumor Therapy. <i>Advanced Functional Materials</i> , 2019 , 29, 1907063	15.6	52
187	Fabrication of High-Resolution Flexible Circuits and Sensors Based on Liquid Metal Inks by Spraying and Wiping Processing. <i>IEEE Transactions on Biomedical Circuits and Systems</i> , 2019 , 13, 1545-1551	5.1	11
186	Magnetic Liquid Metal (Fe-EGaIn) Based Multifunctional Electronics for Remote Self-Healing Materials, Degradable Electronics, and Thermal Transfer Printing. <i>Advanced Science</i> , 2019 , 6, 1901478	13.6	91
185	Noncoalescent liquid metal droplets sustained on a magnetic field-circulated liquid metal bath surface. <i>Applied Physics Letters</i> , 2019 , 115, 083702	3.4	2
184	Printed flexible thin-film transistors based on different types of modified liquid metal with good mobility. <i>Science China Information Sciences</i> , 2019 , 62, 1	3.4	9
183	Novel contrast media based on the liquid metal gallium for in vivo digestive tract radiography: a feasibility study. <i>BioMetals</i> , 2019 , 32, 795-801	3.4	7

182	Self-Powered Gallium-Based Liquid-Metal Beating Heart. <i>Journal of Physical Chemistry A</i> , 2019 , 123, 9268-9273	8.2	1
181	Shape tunable gallium nanorods mediated tumor enhanced ablation through near-infrared photothermal therapy. <i>Nanoscale</i> , 2019 , 11, 2655-2667	7.7	58
180	Electrical control of liquid metal amoeba with directional extension formation.. <i>RSC Advances</i> , 2019 , 9, 2353-2359	3.7	1
179	Large-Magnitude Transformable Liquid-Metal Composites. <i>ACS Omega</i> , 2019 , 4, 2311-2319	3.9	21
178	Semi-Liquid-Metal-(Ni-EGaIn)-Based Ultraconformable Electronic Tattoo. <i>Advanced Materials Technologies</i> , 2019 , 4, 1900183	6.8	57
177	Liquid metal activated hydrogen production from waste aluminum for power supply and its life cycle assessment. <i>International Journal of Hydrogen Energy</i> , 2019 , 44, 17505-17514	6.7	18
176	Generalized way to make temperature tunable conductor/insulator transition liquid metal composites in a diverse range. <i>Materials Horizons</i> , 2019 , 6, 1854-1861	14.4	30
175	Emergence of Liquid Metals in Nanotechnology. <i>ACS Nano</i> , 2019 , 13, 7388-7395	16.7	169
174	Intelligent Liquid Integrated Functional Entity: A Basic Way to Innovate Future Advanced Biomimetic Soft Robotics. <i>Advanced Intelligent Systems</i> , 2019 , 1, 1900017	6	8
173	NIR laser-responsive liquid metal-loaded polymeric hydrogels for controlled release of doxorubicin.. <i>RSC Advances</i> , 2019 , 9, 13026-13032	3.7	8
172	Printing of Quasi-2D Semiconducting EGaIn_2O_3 in Constructing Electronic Devices via Room-Temperature Liquid Metal Oxide Skin. <i>Physica Status Solidi - Rapid Research Letters</i> , 2019 , 13, 1900271	2.5	25
171	Discoloration Effect and One-Step Synthesis of Hydrogen Tungsten and Molybdenum Bronze (H MO) using Liquid Metal at Room Temperature. <i>ACS Omega</i> , 2019 , 4, 7428-7435	3.9	18
170	Self-fueled liquid metal motors. <i>Journal Physics D: Applied Physics</i> , 2019 , 52, 353002	3	11
169	Semi-liquid metal and adhesion-selection enabled rolling and transfer (SMART) printing: A general method towards fast fabrication of flexible electronics. <i>Science China Materials</i> , 2019 , 62, 982-994	7.1	45
168	Transformable soft liquid metal micro/nanomaterials. <i>Materials Science and Engineering Reports</i> , 2019 , 138, 1-35	30.9	75
167	Multi-Substrate Liquid Metal Circuits Printing via Superhydrophobic Coating and Adhesive Patterning. <i>Advanced Engineering Materials</i> , 2019 , 21, 1801363	3.5	9
166	A Highly Stretchable Liquid Metal Polymer as Reversible Transitional Insulator and Conductor. <i>Advanced Materials</i> , 2019 , 31, e1901337	24	123
165	Spontaneous Dispersion and Large-Scale Deformation of Gallium-Based Liquid Metal Induced by Ferric Ions. <i>Journal of Physical Chemistry B</i> , 2019 , 123, 2439-2447	3.4	8

164	Experimental investigation of galinstan based minichannel cooling for high heat flux and large heat power thermal management. <i>Energy Conversion and Management</i> , 2019 , 185, 248-258	10.6	53
163	Magnetic Liquid Metals Manipulated in the Three-Dimensional Free Space. <i>ACS Applied Materials & Interfaces</i> , 2019 , 11, 8685-8692	9.5	57
162	Soft Robotics: Liquid Metal Based Soft Robotics: Materials, Designs, and Applications (Adv. Mater. Technol. 2/2019). <i>Advanced Materials Technologies</i> , 2019 , 4, 1970009	6.8	35
161	Enhanced adhesion between liquid metal ink and the wetted printer paper for direct writing electronic circuits. <i>Journal of the Taiwan Institute of Chemical Engineers</i> , 2019 , 95, 202-207	5.3	7
160	Controllable dispersion and reunion of liquid metal droplets. <i>Science China Materials</i> , 2019 , 62, 407-415	7.1	15
159	Stretchable liquid metal electromagnetic interference shielding coating materials with superior effectiveness. <i>Journal of Materials Chemistry C</i> , 2019 , 7, 10331-10337	7.1	34
158	Liquid-Metal-Enhanced Wire Mesh as a Stiffness Variable Material for Making Soft Robotics. <i>Advanced Engineering Materials</i> , 2019 , 21, 1900530	3.5	5
157	Semiliquid Metal Enabled Highly Conductive Wearable Electronics for Smart Fabrics. <i>ACS Applied Materials & Interfaces</i> , 2019 , 11, 30019-30027	9.5	37
156	An Improved Liquid Metal Mask Printing enabled Fast Fabrication of Wearable Electronics on Fabrics. <i>Annual International Conference of the IEEE Engineering in Medicine and Biology Society IEEE Engineering in Medicine and Biology Society Annual International Conference</i> , 2019 , 2019, 1761-1764	0.9	1
155	Liquid-Metal-Enhanced Wire Mesh as a Stiffness Variable Material for Making Soft Robotics. <i>Advanced Engineering Materials</i> , 2019 , 21, 1970033	3.5	5
154	Liquid Metal Enabled Unconventional Heat and Flow Transfer. <i>ES Energy & Environments</i> , 2019 ,	2.9	4
153	Liquid Metal Soft Machines. <i>Topics in Mining, Metallurgy and Materials Engineering</i> , 2019 ,	0.4	4
152	Interfacial wetting behaviors of liquid Ga alloys/FeGa ₃ based on metallic bond interaction. <i>Colloids and Surfaces A: Physicochemical and Engineering Aspects</i> , 2019 , 569, 102-109	5.1	15
151	Advances in the Development of Liquid Metal-Based Printed Electronic Inks. <i>Frontiers in Materials</i> , 2019 , 6,	4	17
150	Al-assisted high frequency self-powered oscillations of liquid metal droplets. <i>Soft Matter</i> , 2019 , 15, 8971-8975	3.8	4
149	Self-encapsulation liquid metal materials for flexible and stretchable electrical conductors.. <i>RSC Advances</i> , 2019 , 9, 35102-35108	3.7	8
148	Metal-based direct hydrogen generation as unconventional high density energy. <i>Frontiers in Energy</i> , 2019 , 13, 27-53	2.6	9
147	Basic Properties of Liquid Metal and Soft Matter. <i>Topics in Mining, Metallurgy and Materials Engineering</i> , 2019 , 13-35	0.4	2

146	Finned heat pipe assisted low melting point metal PCM heat sink against extremely high power thermal shock. <i>Energy Conversion and Management</i> , 2018 , 160, 467-476	10.6	60
145	Liquid Metal Enabled Flexible Electronic System for Eye Movement Tracking. <i>IEEE Sensors Journal</i> , 2018 , 18, 2592-2598	4	20
144	Metallic Bond-Enabled Wetting Behavior at the Liquid Ga/CuGa Interfaces. <i>ACS Applied Materials & Interfaces</i> , 2018 , 10, 9203-9210	9.5	52
143	Effect of Electric Field on the Wetting Behavior of Eutectic GalliumIndium Alloys in Aqueous Environment. <i>Journal of Electronic Materials</i> , 2018 , 47, 2782-2790	1.9	9
142	Conformable liquid metal printed epidermal electronics for smart physiological monitoring and simulation treatment. <i>Journal of Micromechanics and Microengineering</i> , 2018 , 28, 034003	2	20
141	Liquid metal enabled combinatorial heat transfer science: toward unconventional extreme cooling. <i>Frontiers in Energy</i> , 2018 , 12, 259-275	2.6	25
140	PLUS-M: a Porous Liquid-metal enabled Ubiquitous Soft Material. <i>Materials Horizons</i> , 2018 , 5, 222-229	14.4	72
139	Soft and Moldable Mg-Doped Liquid Metal for Conformable Skin Tumor Photothermal Therapy. <i>Advanced Healthcare Materials</i> , 2018 , 7, e1800318	10.1	63
138	Liquid metal activated aluminum-water reaction for direct hydrogen generation at room temperature. <i>Renewable and Sustainable Energy Reviews</i> , 2018 , 92, 17-37	16.2	55
137	Ni-Galn Amalgams Enabled Rapid and Customizable Fabrication of Wearable and Wireless Healthcare Electronics. <i>Advanced Engineering Materials</i> , 2018 , 20, 1800054	3.5	70
136	Unconventional hydrodynamics of hybrid fluid made of liquid metals and aqueous solution under applied fields. <i>Frontiers in Energy</i> , 2018 , 12, 276-296	2.6	13
135	Colorful liquid metal printed electronics. <i>Science China Technological Sciences</i> , 2018 , 61, 110-116	3.5	15
134	Self-Growing and Serpentine Locomotion of Liquid Metal Induced by Copper Ions. <i>ACS Applied Materials & Interfaces</i> , 2018 , 10, 22889-22895	9.5	34
133	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	3.5	47
132	Liquid Metal Enabled Electrobiolgy: A New Frontier to Tackle Disease Challenges. <i>Micromachines</i> , 2018 , 9,	3.3	4
131	Preparations and Characterizations of Functional Liquid Metal Materials. <i>Springer Series in Biomaterials Science and Engineering</i> , 2018 , 95-115	0.6	2
130	Multiple Electrohydrodynamic Effects on the Morphology and Running Behavior of Tiny Liquid Metal Motors. <i>Micromachines</i> , 2018 , 9,	3.3	8
129	Liquid-Metal Enabled Droplet Circuits. <i>Micromachines</i> , 2018 , 9,	3.3	7

128	Liquid Metal Enabled Skin Electronics. <i>Springer Series in Biomaterials Science and Engineering</i> , 2018 , 255-328		
127	Liquid Metal Printed Biosensor. <i>Springer Series in Biomaterials Science and Engineering</i> , 2018 , 325-367	0.6	
126	Advances in Liquid Metal Science and Technology in Chip Cooling and Thermal Management. <i>Advances in Heat Transfer</i> , 2018 , 187-300	1.9	26
125	Stretchable electronics based on Nano-Fe Galn amalgams for smart flexible pneumatic actuator. <i>Smart Materials and Structures</i> , 2018 , 27, 085022	3.4	15
124	Direct Writing and Repairable Paper Flexible Electronics Using Nickel Liquid Metal Ink. <i>Advanced Materials Interfaces</i> , 2018 , 5, 1800571	4.6	69
123	Electrically switchable surface waves and bouncing droplets excited on a liquid metal bath. <i>Physical Review Fluids</i> , 2018 , 3,	2.8	9
122	Liquid Metal Biomaterials. <i>Springer Series in Biomaterials Science and Engineering</i> , 2018 ,	0.6	9
121	Liquid metal bath as conformable soft electrodes for target tissue ablation in radio-frequency ablation therapy. <i>Minimally Invasive Therapy and Allied Technologies</i> , 2018 , 27, 233-241	2.1	8
120	Fluorescent Liquid Metal As a Transformable Biomimetic Chameleon. <i>ACS Applied Materials & Interfaces</i> , 2018 , 10, 1589-1596	9.5	33
119	Preparations, Characteristics and Applications of the Functional Liquid Metal Materials. <i>Advanced Engineering Materials</i> , 2018 , 20, 1700781	3.5	106
118	Nanoparticle-mediated cryosurgery for tumor therapy. <i>Nanomedicine: Nanotechnology, Biology, and Medicine</i> , 2018 , 14, 493-506	6	26
117	Liquid metal spiral coil enabled soft electromagnetic actuator. <i>Science China Technological Sciences</i> , 2018 , 61, 516-521	3.5	42
116	Coloration of Liquid-Metal Soft Robots: From Silver-White to Iridescent. <i>ACS Applied Materials & Interfaces</i> , 2018 , 10, 41627-41636	9.5	26
115	Liquid Metal Based Soft Robotics: Materials, Designs, and Applications. <i>Advanced Materials Technologies</i> , 2018 , 4, 1800549	6.8	61
114	Liquid metal fractals induced by synergistic oxidation. <i>Science Bulletin</i> , 2018 , 63, 1513-1520	10.6	14
113	One-Step Liquid Metal Transfer Printing: Toward Fabrication of Flexible Electronics on Wide Range of Substrates. <i>Advanced Materials Technologies</i> , 2018 , 3, 1800265	6.8	72
112	Thin, Porous, and Conductive Networks of Metal Nanoparticles through Electrochemical Welding on a Liquid Metal Template. <i>Advanced Materials Interfaces</i> , 2018 , 5, 1800406	4.6	12
111	Progress, Mechanisms and Applications of Liquid-Metal Catalyst Systems. <i>Chemistry - A European Journal</i> , 2018 , 24, 17616-17626	4.8	40

110	Design and Implementation of a Noncontact Sleep Monitoring System Using Infrared Cameras and Motion Sensor. <i>IEEE Transactions on Instrumentation and Measurement</i> , 2018 , 67, 1555-1563	5.2	34
109	Liquid metal biomaterials: a newly emerging area to tackle modern biomedical challenges. <i>International Materials Reviews</i> , 2017 , 62, 415-440	16.1	81
108	Investigation on the Optimized Binary and Ternary Gallium Alloy as Thermal Interface Materials. <i>Journal of Electronic Packaging, Transactions of the ASME</i> , 2017 , 139,	2	10
107	Liquid metal corrosion sculpture to fabricate quickly complex patterns on aluminum. <i>Science China Technological Sciences</i> , 2017 , 60, 65-70	3.5	7
106	Thermally Triggered in Situ Assembly of Gold Nanoparticles for Cancer Multimodal Imaging and Photothermal Therapy. <i>ACS Applied Materials & Interfaces</i> , 2017 , 9, 10453-10460	9.5	60
105	A polarized liquid metal worm squeezing across a localized irregular gap. <i>RSC Advances</i> , 2017 , 7, 11049-11056	3.7	22
104	Galvanic corrosion couple-induced Marangoni flow of liquid metal. <i>Soft Matter</i> , 2017 , 13, 2309-2314	3.6	20
103	3D printing for functional electronics by injection and package of liquid metals into channels of mechanical structures. <i>Materials and Design</i> , 2017 , 122, 80-89	8.1	50
102	Bulk Expansion Effect of Gallium-Based Thermal Interface Material. <i>International Journal of Thermophysics</i> , 2017 , 38, 1	2.1	6
101	Liquid Metal Phagocytosis: Intermetallic Wetting Induced Particle Internalization. <i>Advanced Science</i> , 2017 , 4, 1700024	13.6	77
100	Surface tension of liquid metal: role, mechanism and application. <i>Frontiers in Energy</i> , 2017 , 11, 535-567	2.6	72
99	Controlled hydrogen generation using interaction of artificial seawater with aluminum plates activated by liquid GaIn alloy. <i>RSC Advances</i> , 2017 , 7, 30839-30844	3.7	24
98	Surface effects of liquid metal amoeba. <i>Science Bulletin</i> , 2017 , 62, 700-706	10.6	14
97	Evaluation and optimization of low melting point metal PCM heat sink against ultra-high thermal shock. <i>Applied Thermal Engineering</i> , 2017 , 119, 34-41	5.8	48
96	Spraying printing of liquid metal electronics on various clothes to compose wearable functional device. <i>Science China Technological Sciences</i> , 2017 , 60, 306-316	3.5	21
95	Triggering and Tracing Electro-Hydrodynamic Liquid-Metal Surface Convection with a Particle Raft. <i>Advanced Materials Interfaces</i> , 2017 , 4, 1700939	4.6	9
94	Gallium-Based Liquid Metal Amalgams: Transitional-State Metallic Mixtures (TransMixes) with Enhanced and Tunable Electrical, Thermal, and Mechanical Properties. <i>ACS Applied Materials & Interfaces</i> , 2017 , 9, 35977-35987	9.5	149
93	Amorphous liquid metal electrodes enabled conformable electrochemical therapy of tumors. <i>Biomaterials</i> , 2017 , 146, 156-167	15.6	64

92	Surfing liquid metal droplet on the same metal bath via electrolyte interface. <i>Applied Physics Letters</i> , 2017 , 111, 101603	3.4	10
91	Suspension 3D Printing of Liquid Metal into Self-Healing Hydrogel. <i>Advanced Materials Technologies</i> , 2017 , 2, 1700173	6.8	49
90	Implantable liquid metal-based flexible neural microelectrode array and its application in recovering animal locomotion functions. <i>Journal of Micromechanics and Microengineering</i> , 2017 , 27, 104002	3.0	29
89	Liquid metal amoeba with spontaneous pseudopodia formation and motion capability. <i>Scientific Reports</i> , 2017 , 7, 7256	4.9	22
88	Experimental and numerical investigation of low melting point metal based PCM heat sink with internal fins. <i>International Communications in Heat and Mass Transfer</i> , 2017 , 87, 118-124	5.8	59
87	Gas eruption phenomenon happening from Ga-In alloy in NaOH electrolyte. <i>Applied Physics Letters</i> , 2017 , 111, 241906	3.4	5
86	Manipulation of Liquid Metals on a Graphite Surface. <i>Advanced Materials</i> , 2016 , 28, 9210-9217	2.4	93
85	Liquid Metal Machine Triggered Violin-Like Wire Oscillator. <i>Advanced Science</i> , 2016 , 3, 1600212	13.6	34
84	Self-propelled liquid metal motors steered by a magnetic or electrical field for drug delivery. <i>Journal of Materials Chemistry B</i> , 2016 , 4, 5349-5357	7.3	84
83	Graphite induced periodical self-actuation of liquid metal. <i>RSC Advances</i> , 2016 , 6, 60729-60735	3.7	13
82	Comparative study on activation of aluminum with four liquid metals to generate hydrogen in alkaline solution. <i>International Journal of Hydrogen Energy</i> , 2016 , 41, 22663-22667	6.7	40
81	Liquid metal wheeled small vehicle for cargo delivery. <i>RSC Advances</i> , 2016 , 6, 56482-56488	3.7	31
80	Alternating electric field actuated oscillating behavior of liquid metal and its application. <i>Science China Technological Sciences</i> , 2016 , 59, 597-603	3.5	30
79	Electrical stimulation towards melanoma therapy via liquid metal printed electronics on skin. <i>Clinical and Translational Medicine</i> , 2016 , 5, 21	5.7	22
78	The Rebound Motion of Liquid Metal Droplet on Flexible Micro/Nano Needle Forest. <i>Advanced Materials Interfaces</i> , 2016 , 3, 1600008	4.6	8
77	Water film coated composite liquid metal marble and its fluidic impact dynamics phenomenon. <i>Frontiers in Energy</i> , 2016 , 10, 29-36	2.6	6
76	Dynamic hydrogen generation phenomenon of aluminum fed liquid phase GaIn alloy inside NaOH electrolyte. <i>International Journal of Hydrogen Energy</i> , 2016 , 41, 1453-1459	6.7	40
75	Recent Advancements in Liquid Metal Flexible Printed Electronics: Properties, Technologies, and Applications. <i>Micromachines</i> , 2016 , 7,	3.3	97

74	Jumping liquid metal droplet in electrolyte triggered by solid metal particles. <i>Applied Physics Letters</i> , 2016 , 108, 223901	3.4	17
73	Electrically induced reorganization phenomena of liquid metal film printed on biological skin. <i>Applied Physics A: Materials Science and Processing</i> , 2016 , 122, 1	2.6	3
72	Breathing to harvest energy as a mechanism towards making a liquid metal beating heart. <i>RSC Advances</i> , 2016 , 6, 94692-94698	3.7	21
71	A volatile fluid assisted thermo-pneumatic liquid metal energy harvester. <i>Applied Physics Letters</i> , 2016 , 108, 023903	3.4	14
70	Thermal management of Li-ion battery with liquid metal. <i>Energy Conversion and Management</i> , 2016 , 117, 577-585	10.6	132
69	Numerical investigation of the phase change process of low melting point metal. <i>International Journal of Heat and Mass Transfer</i> , 2016 , 100, 899-907	4.9	59
68	Liquid metal as reconnection agent for peripheral nerve injury. <i>Science Bulletin</i> , 2016 , 61, 939-947	10.6	36
67	Metal substrate enhanced hydrogen production of aluminum fed liquid phase GaIn alloy inside aqueous solution. <i>International Journal of Hydrogen Energy</i> , 2016 , 41, 6193-6199	6.7	23
66	Liquid-Metal-Painted Stretchable Capacitor Sensors for Wearable Healthcare Electronics. <i>Journal of Medical and Biological Engineering</i> , 2016 , 36, 265-272	2.2	44
65	Electrically driven chip cooling device using hybrid coolants of liquid metal and aqueous solution. <i>Science China Technological Sciences</i> , 2016 , 59, 301-308	3.5	25
64	Self-fueled biomimetic liquid metal mollusk. <i>Advanced Materials</i> , 2015 , 27, 2648-55	24	257
63	Liquid metal spring: oscillating coalescence and ejection of contacting liquid metal droplets. <i>Science Bulletin</i> , 2015 , 60, 648-653	10.6	20
62	Pressured liquid metal screen printing for rapid manufacture of high resolution electronic patterns. <i>RSC Advances</i> , 2015 , 5, 57686-57691	3.7	57
61	Self-Fueled Motors: Self-Fueled Biomimetic Liquid Metal Mollusk (Adv. Mater. 16/2015). <i>Advanced Materials</i> , 2015 , 27, 2550-2550	24	3
60	Autonomous convergence and divergence of the self-powered soft liquid metal vehicles. <i>Science Bulletin</i> , 2015 , 60, 943-951	10.6	29
59	Electromagnetic rotation of a liquid metal sphere or pool within a solution. <i>Proceedings of the Royal Society A: Mathematical, Physical and Engineering Sciences</i> , 2015 , 471, 20150177	2.4	25
58	Self-powered macroscopic Brownian motion of spontaneously running liquid metal motors. <i>Science Bulletin</i> , 2015 , 60, 1203-1210	10.6	38
57	Magnetic trap effect to restrict motion of self-powered tiny liquid metal motors. <i>Applied Physics Letters</i> , 2015 , 107, 071904	3.4	19

56	Transient State Machines: Transient State Machine Enabled from the Colliding and Coalescence of a Swarm of Autonomously Running Liquid Metal Motors (Small 39/2015). <i>Small</i> , 2015 , 11, 5178-5178	11	2
55	A Personal Desktop Liquid-Metal Printer as a Pervasive Electronics Manufacturing Tool for Society in the Near Future. <i>Engineering</i> , 2015 , 1, 506-512	9.7	8
54	Transient State Machine Enabled from the Colliding and Coalescence of a Swarm of Autonomously Running Liquid Metal Motors. <i>Small</i> , 2015 , 11, 5253-61	11	50
53	Fast Fabrication of Flexible Functional Circuits Based on Liquid Metal Dual-Trans Printing. <i>Advanced Materials</i> , 2015 , 27, 7109-16	24	200
52	Electrical method to control the running direction and speed of self-powered tiny liquid metal motors. <i>Proceedings of the Royal Society A: Mathematical, Physical and Engineering Sciences</i> , 2015 , 471, 20150297	2.4	29
51	Liquid Metal Ink Enabled Rapid Prototyping of Electrochemical Sensor for Wireless Glucose Detection on the Platform of Mobile Phone. <i>Journal of Medical Devices, Transactions of the ASME</i> , 2015 , 9,	1.3	9
50	Liquid Metal Based Stretchable Radiation-Shielding Film. <i>Journal of Medical Devices, Transactions of the ASME</i> , 2015 , 9,	1.3	10
49	Bismuth sulfide nanorods as a precision nanomedicine for in vivo multimodal imaging-guided photothermal therapy of tumor. <i>ACS Nano</i> , 2015 , 9, 696-707	16.7	430
48	Personal electronics printing via tapping mode composite liquid metal ink delivery and adhesion mechanism. <i>Scientific Reports</i> , 2014 , 4, 4588	4.9	146
47	Fabrication of magnetic nano liquid metal fluid through loading of Ni nanoparticles into gallium or its alloy. <i>Journal of Magnetism and Magnetic Materials</i> , 2014 , 354, 279-283	2.8	40
46	Liquid-solid phase transition alloy as reversible and rapid molding bone cement. <i>Biomaterials</i> , 2014 , 35, 9789-9801	15.6	64
45	Liquid phase 3D printing for quickly manufacturing conductive metal objects with low melting point alloy ink. <i>Science China Technological Sciences</i> , 2014 , 57, 1721-1728	3.5	62
44	Liquid metal angiography for mega contrast X-ray visualization of vascular network in reconstructing in-vitro organ anatomy. <i>IEEE Transactions on Biomedical Engineering</i> , 2014 , 61, 2161-6	5	58
43	Biomimetic microfluidic device for in vitro antihypertensive drug evaluation. <i>Molecular Pharmaceutics</i> , 2014 , 11, 2009-15	5.6	12
42	Splashing phenomena of room temperature liquid metal droplet striking on the pool of the same liquid under ambient air environment. <i>International Journal of Heat and Fluid Flow</i> , 2014 , 47, 1-8	2.4	17
41	Flexible Mechanical Joint as Human Exoskeleton Using Low-Melting-Point Alloy. <i>Journal of Medical Devices, Transactions of the ASME</i> , 2014 , 8,	1.3	13
40	Synthetically chemical-electrical mechanism for controlling large scale reversible deformation of liquid metal objects. <i>Scientific Reports</i> , 2014 , 4, 7116	4.9	88
39	Compatible hybrid 3D printing of metal and nonmetal inks for direct manufacture of end functional devices. <i>Science China Technological Sciences</i> , 2014 , 57, 2089-2095	3.5	43

38	Thermally Conductive and Highly Electrically Resistive Grease Through Homogeneously Dispersing Liquid Metal Droplets Inside Methyl Silicone Oil. <i>Journal of Electronic Packaging, Transactions of the ASME</i> , 2014 , 136,	2	54
37	Electro-hydrodynamic shooting phenomenon of liquid metal stream. <i>Applied Physics Letters</i> , 2014 , 105, 134104	3.4	28
36	Rapidly patterning conductive components on skin substrates as physiological testing devices via liquid metal spraying and pre-designed mask. <i>Journal of Materials Chemistry B</i> , 2014 , 2, 5739-5745	7.3	63
35	Channelless Fabrication for Large-Scale Preparation of Room Temperature Liquid Metal Droplets. <i>Advanced Engineering Materials</i> , 2014 , 16, 255-262	3.5	55
34	Diverse transformations of liquid metals between different morphologies. <i>Advanced Materials</i> , 2014 , 26, 6036-42	24	160
33	Atomized spraying of liquid metal droplets on desired substrate surfaces as a generalized way for ubiquitous printed electronics. <i>Applied Physics A: Materials Science and Processing</i> , 2014 , 116, 1091-1097	2.6	81
32	Enhanced Thermographic Detection of Skin Cancer Through Combining Laser Scanning and Biodegradable Nanoparticles. <i>Journal of Nanotechnology in Engineering and Medicine</i> , 2013 , 4,		2
31	Keeping Smartphones Cool With Gallium Phase Change Material. <i>Journal of Heat Transfer</i> , 2013 , 135,	1.8	59
30	Nano liquid metal as an emerging functional material in energy management, conversion and storage. <i>Nano Energy</i> , 2013 , 2, 863-872	17.1	58
29	Low melting point liquid metal as a new class of phase change material: An emerging frontier in energy area. <i>Renewable and Sustainable Energy Reviews</i> , 2013 , 21, 331-346	16.2	172
28	Direct Desktop Printed-Circuits-on-Paper Flexible Electronics. <i>Scientific Reports</i> , 2013 , 3,	4.9	232
27	Development of three-dimension microelectrode array for bioelectric measurement using the liquidmetal-micromolding technique. <i>Applied Physics Letters</i> , 2013 , 103, 193701	3.4	12
26	Pervasive liquid metal based direct writing electronics with roller-ball pen. <i>AIP Advances</i> , 2013 , 3, 112117	1.5	79
25	Injectable 3-D fabrication of medical electronics at the target biological tissues. <i>Scientific Reports</i> , 2013 , 3, 3442	4.9	76
24	Directly writing resistor, inductor and capacitor to composite functional circuits: a super-simple way for alternative electronics. <i>PLoS ONE</i> , 2013 , 8, e69761	3.7	43
23	Biomedical implementation of liquid metal ink as drawable ECG electrode and skin circuit. <i>PLoS ONE</i> , 2013 , 8, e58771	3.7	80
22	Direct writing of electronics based on alloy and metal (DREAM) ink: A newly emerging area and its impact on energy, environment and health sciences. <i>Frontiers in Energy</i> , 2012 , 6, 311-340	2.6	70
21	Biodegradable magnesium nanoparticle-enhanced laser hyperthermia therapy. <i>International Journal of Nanomedicine</i> , 2012 , 7, 4715-25	7.3	8

20	Gallium-based thermal interface material with high compliance and wettability. <i>Applied Physics A: Materials Science and Processing</i> , 2012 , 107, 701-708	2.6	95
19	Printable tiny thermocouple by liquid metal gallium and its matching metal. <i>Applied Physics Letters</i> , 2012 , 101, 073511	3.4	39
18	Heat Spreader Based on Room-Temperature Liquid Metal. <i>Journal of Thermal Science and Engineering Applications</i> , 2012 , 4,	1.9	10
17	Direct writing of flexible electronics through room temperature liquid metal ink. <i>PLoS ONE</i> , 2012 , 7, e45485	3.7	124
16	Revolutionizing heat transport enhancement with liquid metals: Proposal of a new industry of water-free heat exchangers. <i>Frontiers in Energy</i> , 2011 , 5, 20-42	2.6	39
15	Design of Practical Liquid Metal Cooling Device for Heat Dissipation of High Performance CPUs. <i>Journal of Electronic Packaging, Transactions of the ASME</i> , 2010 , 132,	2	41
14	A liquid metal cooling system for the thermal management of high power LEDs. <i>International Communications in Heat and Mass Transfer</i> , 2010 , 37, 788-791	5.8	112
13	Nano-cryosurgery: advances and challenges. <i>Journal of Nanoscience and Nanotechnology</i> , 2009 , 9, 4521-423	3	27
12	Injectable liquid alkali alloy based-tumor thermal ablation therapy. <i>Minimally Invasive Therapy and Allied Technologies</i> , 2009 , 18, 30-5	2.1	16
11	Harvesting human kinematical energy based on liquid metal magnetohydrodynamics. <i>Physics Letters, Section A: General, Atomic and Solid State Physics</i> , 2009 , 373, 1305-1309	2.3	30
10	Characterization of the nanocryosurgical freezing process through modifying Mazur's model. <i>Journal of Applied Physics</i> , 2008 , 103, 084311	2.5	3
9	Nanocryosurgery and its mechanisms for enhancing freezing efficiency of tumor tissues. <i>Nanomedicine: Nanotechnology, Biology, and Medicine</i> , 2008 , 4, 79-87	6	46
8	Nano liquid-metal fluid as ultimate coolant. <i>Physics Letters, Section A: General, Atomic and Solid State Physics</i> , 2007 , 361, 252-256	2.3	122
7	Liquid metal cooling in thermal management of computer chips. <i>Frontiers of Energy and Power Engineering in China</i> , 2007 , 1, 384-402		108
6	Heat-driven liquid metal cooling device for the thermal management of a computer chip. <i>Journal Physics D: Applied Physics</i> , 2007 , 40, 4722-4729	3	98
5	A powerful way of cooling computer chip using liquid metal with low melting point as the cooling fluid. <i>Forschung Im Ingenieurwesen/Engineering Research</i> , 2006 , 70, 243-251	0.8	41
4	Numerical simulation of selective freezing of target biological tissues following injection of solutions with specific thermal properties. <i>Cryobiology</i> , 2005 , 50, 183-92	2.7	57
3	Selective freezing of target biological tissues after injection of solutions with specific thermal properties. <i>Cryobiology</i> , 2005 , 50, 174-82	2.7	35

2	Liquid Metal Printed Optoelectronics Toward Fast Fabrication of Customized and Erasable Patterned Displays. <i>Advanced Materials Technologies</i> ,2101010	6.8	3
1	Low Melting Point Alloys Enabled Stiffness Tunable Advanced Materials. <i>Advanced Functional Materials</i> ,2201942	15.6	3