

List of Publications by Citations

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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.

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|--------------------|--------------------------|----------------|-----------------|
| 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 | 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 |
| 252 | Self-fueled biomimetic liquid metal mollusk. <i>Advanced Materials</i> , 2015 , 27, 2648-55 | 24 | 257 |
| 251 | Direct Desktop Printed-Circuits-on-Paper Flexible Electronics. <i>Scientific Reports</i> , 2013 , 3, | 4.9 | 232 |
| 250 | Fast Fabrication of Flexible Functional Circuits Based on Liquid Metal Dual-Trans Printing. <i>Advanced Materials</i> , 2015 , 27, 7109-16 | 24 | 200 |
| 249 | 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 |
| 248 | Emergence of Liquid Metals in Nanotechnology. <i>ACS Nano</i> , 2019 , 13, 7388-7395 | 16.7 | 169 |
| 247 | Diverse transformations of liquid metals between different morphologies. <i>Advanced Materials</i> , 2014 , 26, 6036-42 | 24 | 160 |
| 246 | 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 |
| 245 | Personal electronics printing via tapping mode composite liquid metal ink delivery and adhesion mechanism. <i>Scientific Reports</i> , 2014 , 4, 4588 | 4.9 | 146 |
| 244 | Thermal management of Li-ion battery with liquid metal. <i>Energy Conversion and Management</i> , 2016 , 117, 577-585 | 10.6 | 132 |
| 243 | Direct writing of flexible electronics through room temperature liquid metal ink. <i>PLoS ONE</i> , 2012 , 7, e45485 | 4.85 | 124 |
| 242 | A Highly Stretchable Liquid Metal Polymer as Reversible Transitional Insulator and Conductor. <i>Advanced Materials</i> , 2019 , 31, e1901337 | 24 | 123 |
| 241 | Liquid Metal Composites. <i>Matter</i> , 2020 , 2, 1446-1480 | 12.7 | 122 |
| 240 | 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 |
| 239 | 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 |
| 238 | Liquid metal cooling in thermal management of computer chips. <i>Frontiers of Energy and Power Engineering in China</i> , 2007 , 1, 384-402 | | 108 |
| 237 | Preparations, Characteristics and Applications of the Functional Liquid Metal Materials. <i>Advanced Engineering Materials</i> , 2018 , 20, 1700781 | 3.5 | 106 |

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| 236 | 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 |
| 235 | Recent Advancements in Liquid Metal Flexible Printed Electronics: Properties, Technologies, and Applications. <i>Micromachines</i> , 2016 , 7, | 3.3 | 97 |
| 234 | 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 |
| 233 | Manipulation of Liquid Metals on a Graphite Surface. <i>Advanced Materials</i> , 2016 , 28, 9210-9217 | 24 | 93 |
| 232 | 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 |
| 231 | Synthetically chemical-electrical mechanism for controlling large scale reversible deformation of liquid metal objects. <i>Scientific Reports</i> , 2014 , 4, 7116 | 4.9 | 88 |
| 230 | 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 |
| 229 | Liquid metal biomaterials: a newly emerging area to tackle modern biomedical challenges. <i>International Materials Reviews</i> , 2017 , 62, 415-440 | 16.1 | 81 |
| 228 | 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 |
| 227 | Biomedical implementation of liquid metal ink as drawable ECG electrode and skin circuit. <i>PLoS ONE</i> , 2013 , 8, e58771 | 3.7 | 80 |
| 226 | Pervasive liquid metal based direct writing electronics with roller-ball pen. <i>AIP Advances</i> , 2013 , 3, 112117 | 1.5 | 79 |
| 225 | Liquid Metal Phagocytosis: Intermetallic Wetting Induced Particle Internalization. <i>Advanced Science</i> , 2017 , 4, 1700024 | 13.6 | 77 |
| 224 | Injectable 3-D fabrication of medical electronics at the target biological tissues. <i>Scientific Reports</i> , 2013 , 3, 3442 | 4.9 | 76 |
| 223 | Transformable soft liquid metal micro/nanomaterials. <i>Materials Science and Engineering Reports</i> , 2019 , 138, 1-35 | 30.9 | 75 |
| 222 | Surface tension of liquid metal: role, mechanism and application. <i>Frontiers in Energy</i> , 2017 , 11, 535-567 | 2.6 | 72 |
| 221 | PLUS-M: a Porous Liquid-metal enabled Ubiquitous Soft Material. <i>Materials Horizons</i> , 2018 , 5, 222-229 | 14.4 | 72 |
| 220 | 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 |
| 219 | Ni-GaIn Amalgams Enabled Rapid and Customizable Fabrication of Wearable and Wireless Healthcare Electronics. <i>Advanced Engineering Materials</i> , 2018 , 20, 1800054 | 3.5 | 70 |

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|-----|--|------|----|
| 218 | 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 |
| 217 | Direct Writing and Repairable Paper Flexible Electronics Using Nickel Liquid Metal Ink. <i>Advanced Materials Interfaces</i> , 2018 , 5, 1800571 | 4.6 | 69 |
| 216 | Liquid-solid phase transition alloy as reversible and rapid molding bone cement. <i>Biomaterials</i> , 2014 , 35, 9789-9801 | 15.6 | 64 |
| 215 | Amorphous liquid metal electrodes enabled conformable electrochemical therapy of tumors. <i>Biomaterials</i> , 2017 , 146, 156-167 | 15.6 | 64 |
| 214 | Soft and Moldable Mg-Doped Liquid Metal for Conformable Skin Tumor Photothermal Therapy. <i>Advanced Healthcare Materials</i> , 2018 , 7, e1800318 | 10.1 | 63 |
| 213 | 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 |
| 212 | 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 |
| 211 | Liquid Metal Based Soft Robotics: Materials, Designs, and Applications. <i>Advanced Materials Technologies</i> , 2018 , 4, 1800549 | 6.8 | 61 |
| 210 | 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 |
| 209 | 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 |
| 208 | Keeping Smartphones Cool With Gallium Phase Change Material. <i>Journal of Heat Transfer</i> , 2013 , 135, | 1.8 | 59 |
| 207 | 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 |
| 206 | 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 |
| 205 | Shape tunable gallium nanorods mediated tumor enhanced ablation through near-infrared photothermal therapy. <i>Nanoscale</i> , 2019 , 11, 2655-2667 | 7.7 | 58 |
| 204 | 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 |
| 203 | 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 |
| 202 | Semi-Liquid-Metal-(Ni-EGaIn)-Based Ultraconformable Electronic Tattoo. <i>Advanced Materials Technologies</i> , 2019 , 4, 1900183 | 6.8 | 57 |
| 201 | Magnetic Liquid Metals Manipulated in the Three-Dimensional Free Space. <i>ACS Applied Materials & Interfaces</i> , 2019 , 11, 8685-8692 | 9.5 | 57 |

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| 200 | Pressured liquid metal screen printing for rapid manufacture of high resolution electronic patterns. <i>RSC Advances</i> , 2015 , 5, 57686-57691 | 3.7 | 57 |
| 199 | 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 |
| 198 | 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 |
| 197 | Channelless Fabrication for Large-Scale Preparation of Room Temperature Liquid Metal Droplets. <i>Advanced Engineering Materials</i> , 2014 , 16, 255-262 | 3.5 | 55 |
| 196 | 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 |
| 195 | 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 |
| 194 | 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 |
| 193 | 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 |
| 192 | Metallic Bond-Enabled Wetting Behavior at the Liquid Ga/CuGa Interfaces. <i>ACS Applied Materials & Interfaces</i> , 2018 , 10, 9203-9210 | 9.5 | 52 |
| 191 | 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 |
| 190 | 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 |
| 189 | Suspension 3D Printing of Liquid Metal into Self-Healing Hydrogel. <i>Advanced Materials Technologies</i> , 2017 , 2, 1700173 | 6.8 | 49 |
| 188 | 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 |
| 187 | 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 |
| 186 | Nanocryosurgery and its mechanisms for enhancing freezing efficiency of tumor tissues. <i>Nanomedicine: Nanotechnology, Biology, and Medicine</i> , 2008 , 4, 79-87 | 6 | 46 |
| 185 | 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 |
| 184 | Injectable and Radiopaque Liquid Metal/Calcium Alginate Hydrogels for Endovascular Embolization and Tumor Embolotherapy. <i>Small</i> , 2020 , 16, e1903421 | 11 | 45 |
| 183 | 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 |

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| 182 | 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 |
| 181 | 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 |
| 180 | Liquid metal spiral coil enabled soft electromagnetic actuator. <i>Science China Technological Sciences</i> , 2018 , 61, 516-521 | 3.5 | 42 |
| 179 | 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 |
| 178 | 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 |
| 177 | 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 |
| 176 | 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 |
| 175 | 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 |
| 174 | Progress, Mechanisms and Applications of Liquid-Metal Catalyst Systems. <i>Chemistry - A European Journal</i> , 2018 , 24, 17616-17626 | 4.8 | 40 |
| 173 | Advances in Liquid Metal-Enabled Flexible and Wearable Sensors. <i>Micromachines</i> , 2020 , 11, | 3.3 | 39 |
| 172 | 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 |
| 171 | Printable tiny thermocouple by liquid metal gallium and its matching metal. <i>Applied Physics Letters</i> , 2012 , 101, 073511 | 3.4 | 39 |
| 170 | Self-powered macroscopic Brownian motion of spontaneously running liquid metal motors. <i>Science Bulletin</i> , 2015 , 60, 1203-1210 | 10.6 | 38 |
| 169 | Semiliquid Metal Enabled Highly Conductive Wearable Electronics for Smart Fabrics. <i>ACS Applied Materials & Interfaces</i> , 2019 , 11, 30019-30027 | 9.5 | 37 |
| 168 | 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 |
| 167 | Liquid metal as reconnection agent for peripheral nerve injury. <i>Science Bulletin</i> , 2016 , 61, 939-947 | 10.6 | 36 |
| 166 | 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 |
| 165 | Selective freezing of target biological tissues after injection of solutions with specific thermal properties. <i>Cryobiology</i> , 2005 , 50, 174-82 | 2.7 | 35 |

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| 164 | Liquid Metal Machine Triggered Violin-Like Wire Oscillator. <i>Advanced Science</i> , 2016 , 3, 1600212 | 13.6 | 34 |
| 163 | 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 |
| 162 | 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 |
| 161 | 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 |
| 160 | Fluorescent Liquid Metal As a Transformable Biomimetic Chameleon. <i>ACS Applied Materials & Interfaces</i> , 2018 , 10, 1589-1596 | 9.5 | 33 |
| 159 | Liquid metal wheeled small vehicle for cargo delivery. <i>RSC Advances</i> , 2016 , 6, 56482-56488 | 3.7 | 31 |
| 158 | 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 |
| 157 | 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 |
| 156 | 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 |
| 155 | Autonomous convergence and divergence of the self-powered soft liquid metal vehicles. <i>Science Bulletin</i> , 2015 , 60, 943-951 | 10.6 | 29 |
| 154 | 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 |
| 153 | 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 | 10.2 | 29 |
| 152 | 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 |
| 151 | Electro-hydrodynamic shooting phenomenon of liquid metal stream. <i>Applied Physics Letters</i> , 2014 , 105, 134104 | 3.4 | 28 |
| 150 | CuEGaIn enabled stretchable e-skin for interactive electronics and CT assistant localization. <i>Materials Horizons</i> , 2020 , 7, 1845-1853 | 14.4 | 27 |
| 149 | Nano-cryosurgery: advances and challenges. <i>Journal of Nanoscience and Nanotechnology</i> , 2009 , 9, 4521-4523 | 4.3 | 27 |
| 148 | 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 |
| 147 | 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 |

- 146 Nanoparticle-mediated cryosurgery for tumor therapy. *Nanomedicine: Nanotechnology, Biology, and Medicine*, **2018**, 14, 493-506 6 26
- 145 Coloration of Liquid-Metal Soft Robots: From Silver-White to Iridescent. *ACS Applied Materials & Interfaces*, **2018**, 10, 41627-41636 9.5 26
- 144 Printing of Quasi-2D Semiconducting EGa₂O₃ in Constructing Electronic Devices via Room-Temperature Liquid Metal Oxide Skin. *Physica Status Solidi - Rapid Research Letters*, **2019**, 13, 1900271 2.5 25
- 143 Electromagnetic rotation of a liquid metal sphere or pool within a solution. *Proceedings of the Royal Society A: Mathematical, Physical and Engineering Sciences*, **2015**, 471, 20150177 2.4 25
- 142 Liquid Metal Hybrid Platform-Mediated Ice-Fire Dual Noninvasive Conformable Melanoma Therapy. *ACS Applied Materials & Interfaces*, **2020**, 12, 27984-27993 9.5 25
- 141 Liquid metal enabled combinatorial heat transfer science: toward unconventional extreme cooling. *Frontiers in Energy*, **2018**, 12, 259-275 2.6 25
- 140 Electrically driven chip cooling device using hybrid coolants of liquid metal and aqueous solution. *Science China Technological Sciences*, **2016**, 59, 301-308 3.5 25
- 139 Controlled hydrogen generation using interaction of artificial seawater with aluminum plates activated by liquid GaIn alloy. *RSC Advances*, **2017**, 7, 30839-30844 3.7 24
- 138 Lightweight Liquid Metal Entity. *Advanced Functional Materials*, **2020**, 30, 1910709 15.6 24
- 137 Metal substrate enhanced hydrogen production of aluminum fed liquid phase GaIn alloy inside aqueous solution. *International Journal of Hydrogen Energy*, **2016**, 41, 6193-6199 6.7 23
- 136 A polarized liquid metal worm squeezing across a localized irregular gap. *RSC Advances*, **2017**, 7, 11049-11056 11.56 22
- 135 Electrical stimulation towards melanoma therapy via liquid metal printed electronics on skin. *Clinical and Translational Medicine*, **2016**, 5, 21 5.7 22
- 134 Liquid metal amoeba with spontaneous pseudopodia formation and motion capability. *Scientific Reports*, **2017**, 7, 7256 4.9 22
- 133 Spraying printing of liquid metal electronics on various clothes to compose wearable functional device. *Science China Technological Sciences*, **2017**, 60, 306-316 3.5 21
- 132 Large-Magnitude Transformable Liquid-Metal Composites. *ACS Omega*, **2019**, 4, 2311-2319 3.9 21
- 131 Liquid metal enabled injectable biomedical technologies and applications. *Applied Materials Today*, **2020**, 20, 100722 6.6 21
- 130 Breathing to harvest energy as a mechanism towards making a liquid metal beating heart. *RSC Advances*, **2016**, 6, 94692-94698 3.7 21
- 129 Galvanic corrosion couple-induced Marangoni flow of liquid metal. *Soft Matter*, **2017**, 13, 2309-2314 3.6 20

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| 128 | Liquid metal spring: oscillating coalescence and ejection of contacting liquid metal droplets. <i>Science Bulletin</i> , 2015 , 60, 648-653 | 10.6 | 20 |
| 127 | Liquid Metal Enabled Flexible Electronic System for Eye Movement Tracking. <i>IEEE Sensors Journal</i> , 2018 , 18, 2592-2598 | 4 | 20 |
| 126 | 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 |
| 125 | High performance liquid metal thermal interface materials. <i>Nanotechnology</i> , 2021 , 32, 092001 | 3.4 | 20 |
| 124 | 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 |
| 123 | Magnetic trap effect to restrict motion of self-powered tiny liquid metal motors. <i>Applied Physics Letters</i> , 2015 , 107, 071904 | 3.4 | 19 |
| 122 | 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 |
| 121 | A Liquid Gripper Based on Phase Transitional Metallic Ferrofluid. <i>Advanced Functional Materials</i> , 2021 , 31, 2100274 | 15.6 | 19 |
| 120 | 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 |
| 119 | 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 |
| 118 | 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 |
| 117 | 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 |
| 116 | Jumping liquid metal droplet in electrolyte triggered by solid metal particles. <i>Applied Physics Letters</i> , 2016 , 108, 223901 | 3.4 | 17 |
| 115 | Advances in the Development of Liquid Metal-Based Printed Electronic Inks. <i>Frontiers in Materials</i> , 2019 , 6, | 4 | 17 |
| 114 | Liquid metal-enabled cybernetic electronics. <i>Materials Today Physics</i> , 2020 , 14, 100245 | 8 | 16 |
| 113 | Injectable liquid alkali alloy based-tumor thermal ablation therapy. <i>Minimally Invasive Therapy and Allied Technologies</i> , 2009 , 18, 30-5 | 2.1 | 16 |
| 112 | Colorful liquid metal printed electronics. <i>Science China Technological Sciences</i> , 2018 , 61, 110-116 | 3.5 | 15 |
| 111 | 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 |

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| 110 | Controllable dispersion and reunion of liquid metal droplets. <i>Science China Materials</i> , 2019 , 62, 407-415 | 7.1 | 15 |
| 109 | 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 |
| 108 | Surface effects of liquid metal amoeba. <i>Science Bulletin</i> , 2017 , 62, 700-706 | 10.6 | 14 |
| 107 | A volatile fluid assisted thermo-pneumatic liquid metal energy harvester. <i>Applied Physics Letters</i> , 2016 , 108, 023903 | 3.4 | 14 |
| 106 | Liquid metal fractals induced by synergistic oxidation. <i>Science Bulletin</i> , 2018 , 63, 1513-1520 | 10.6 | 14 |
| 105 | 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 |
| 104 | Graphite induced periodical self-actuation of liquid metal. <i>RSC Advances</i> , 2016 , 6, 60729-60735 | 3.7 | 13 |
| 103 | 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 |
| 102 | Low-melting-point liquid metal convective heat transfer: A review. <i>Applied Thermal Engineering</i> , 2021 , 193, 117021 | 5.8 | 13 |
| 101 | Biomimetic microfluidic device for in vitro antihypertensive drug evaluation. <i>Molecular Pharmaceutics</i> , 2014 , 11, 2009-15 | 5.6 | 12 |
| 100 | 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 |
| 99 | Low-Temperature Triggered Shape Transformation of Liquid Metal Microdroplets. <i>ACS Applied Materials & Interfaces</i> , 2020 , 12, 38386-38396 | 9.5 | 12 |
| 98 | Liquid metal technology in solar power generation - Basics and applications. <i>Solar Energy Materials and Solar Cells</i> , 2021 , 222, 110925 | 6.4 | 12 |
| 97 | 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 |
| 96 | 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 |
| 95 | Self-fueled liquid metal motors. <i>Journal Physics D: Applied Physics</i> , 2019 , 52, 353002 | 3 | 11 |
| 94 | Liquid Metal Foaming via Decomposition Agents. <i>ACS Applied Materials & Interfaces</i> , 2021 , 13, 17093-17103 | 3.5 | 11 |
| 93 | 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 |

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