

Michael David Dickey

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.

241
papers

16,438
citations

64
h-index

124
g-index

261
ext. papers

19,714
ext. citations

9.4
avg, IF

7.48
L-index

#	Paper	IF	Citations
241	Eutectic Gallium-Indium (EGaIn): A Liquid Metal Alloy for the Formation of Stable Structures in Microchannels at Room Temperature. <i>Advanced Functional Materials</i> , 2008 , 18, 1097-1104	15.6	927
240	Stretchable and Soft Electronics using Liquid Metals. <i>Advanced Materials</i> , 2017 , 29, 1606425	24	818
239	3D printing of free standing liquid metal microstructures. <i>Advanced Materials</i> , 2013 , 25, 5081-5	24	599
238	Foldable Printed Circuit Boards on Paper Substrates. <i>Advanced Functional Materials</i> , 2010 , 20, 28-35	15.6	553
237	Liquid metals: fundamentals and applications in chemistry. <i>Chemical Society Reviews</i> , 2018 , 47, 4073-4114	48.5	432
236	Eutectic gallium-indium (EGaIn): a moldable liquid metal for electrical characterization of self-assembled monolayers. <i>Angewandte Chemie - International Edition</i> , 2008 , 47, 142-4	16.4	427
235	Reversibly Deformable and Mechanically Tunable Fluidic Antennas. <i>Advanced Functional Materials</i> , 2009 , 19, 3632-3637	15.6	425
234	Emerging applications of liquid metals featuring surface oxides. <i>ACS Applied Materials & Interfaces</i> , 2014 , 6, 18369-79	9.5	394
233	Self-folding of polymer sheets using local light absorption. <i>Soft Matter</i> , 2012 , 8, 1764-1769	3.6	393
232	Ultrastretchable Fibers with Metallic Conductivity Using a Liquid Metal Alloy Core. <i>Advanced Functional Materials</i> , 2013 , 23, 2308-2314	15.6	392
231	Transformable liquid-metal nanomedicine. <i>Nature Communications</i> , 2015 , 6, 10066	17.4	320
230	Self-healing stretchable wires for reconfigurable circuit wiring and 3D microfluidics. <i>Advanced Materials</i> , 2013 , 25, 1589-92	24	316
229	Reversible patterning and actuation of hydrogels by electrically assisted ionoprinting. <i>Nature Communications</i> , 2013 , 4, 2257	17.4	311
228	Light-powered electrical switch based on cargo-lifting azobenzene monolayers. <i>Angewandte Chemie - International Edition</i> , 2008 , 47, 3407-9	16.4	260
227	2D or not 2D? Shape-programming polymer sheets. <i>Progress in Polymer Science</i> , 2016 , 52, 79-106	29.6	242
226	Flexible Liquid Metal Alloy (EGaIn) Microstrip Patch Antenna. <i>IEEE Transactions on Antennas and Propagation</i> , 2012 , 60, 2151-2156	4.9	242
225	Liquid metal enabled microfluidics. <i>Lab on A Chip</i> , 2017 , 17, 974-993	7.2	241

224	Giant and switchable surface activity of liquid metal via surface oxidation. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2014 , 111, 14047-51	11.5	234
223	Electro-actuated hydrogel walkers with dual responsive legs. <i>Soft Matter</i> , 2014 , 10, 1337-48	3.6	227
222	Methods to pattern liquid metals. <i>Journal of Materials Chemistry C</i> , 2015 , 3, 3834-3841	7.1	214
221	Optical antenna arrays on a fiber facet for in situ surface-enhanced Raman scattering detection. <i>Nano Letters</i> , 2009 , 9, 1132-8	11.5	210
220	Thread as a matrix for biomedical assays. <i>ACS Applied Materials & Interfaces</i> , 2010 , 2, 1722-8	9.5	200
219	Charge transport and rectification in arrays of SAM-based tunneling junctions. <i>Nano Letters</i> , 2010 , 10, 3611-9	11.5	188
218	Inherently aligned microfluidic electrodes composed of liquid metal. <i>Lab on A Chip</i> , 2011 , 11, 905-11	7.2	186
217	Sequential self-folding of polymer sheets. <i>Science Advances</i> , 2017 , 3, e1602417	14.3	183
216	Flexible thermoelectric generator using bulk legs and liquid metal interconnects for wearable electronics. <i>Applied Energy</i> , 2017 , 202, 736-745	10.7	177
215	Wafer-scale two-dimensional semiconductors from printed oxide skin of liquid metals. <i>Nature Communications</i> , 2017 , 8, 14482	17.4	172
214	Stretchable Capacitive Sensors of Torsion, Strain, and Touch Using Double Helix Liquid Metal Fibers. <i>Advanced Functional Materials</i> , 2017 , 27, 1605630	15.6	171
213	Emergence of Liquid Metals in Nanotechnology. <i>ACS Nano</i> , 2019 , 13, 7388-7395	16.7	169
212	Liquid metal-filled magnetorheological elastomer with positive piezoconductivity. <i>Nature Communications</i> , 2019 , 10, 1300	17.4	167
211	Towards all-soft matter circuits: prototypes of quasi-liquid devices with memristor characteristics. <i>Advanced Materials</i> , 2011 , 23, 3559-64	24	164
210	Handwritten, Soft Circuit Boards and Antennas Using Liquid Metal Nanoparticles. <i>Small</i> , 2015 , 11, 6397-403	10.3	160
209	3D printing of liquid metals as fugitive inks for fabrication of 3D microfluidic channels. <i>Lab on A Chip</i> , 2016 , 16, 1812-20	7.2	145
208	Facile Conversion of Hydroxy Double Salts to Metal-Organic Frameworks Using Metal Oxide Particles and Atomic Layer Deposition Thin-Film Templates. <i>Journal of the American Chemical Society</i> , 2015 , 137, 13756-9	16.4	135
207	Influence of water on the interfacial behavior of gallium liquid metal alloys. <i>ACS Applied Materials & Interfaces</i> , 2014 , 6, 22467-73	9.5	124

206	Nanoskiving: a new method to produce arrays of nanostructures. <i>Accounts of Chemical Research</i> , 2008 , 41, 1566-77	24.3	122
205	A technique to transfer metallic nanoscale patterns to small and non-planar surfaces. <i>ACS Nano</i> , 2009 , 3, 59-65	16.7	114
204	Enhanced Endosomal Escape by Light-Fueled Liquid-Metal Transformer. <i>Nano Letters</i> , 2017 , 17, 2138-2145	15.5	109
203	A reconfigurable liquid metal antenna driven by electrochemically controlled capillarity. <i>Journal of Applied Physics</i> , 2015 , 117, 194901	2.5	109
202	Vacuum filling of complex microchannels with liquid metal. <i>Lab on A Chip</i> , 2017 , 17, 3043-3050	7.2	107
201	Viscoelastic properties of oxide-coated liquid metals. <i>Journal of Rheology</i> , 2009 , 53, 1305-1326	4.1	107
200	Shape-transformable liquid metal nanoparticles in aqueous solution. <i>Chemical Science</i> , 2017 , 8, 3832-3837	7.4	104
199	Room temperature CO reduction to solid carbon species on liquid metals featuring atomically thin ceria interfaces. <i>Nature Communications</i> , 2019 , 10, 865	17.4	100
198	Ionic Current Rectification in Soft-Matter Diodes with Liquid-Metal Electrodes. <i>Advanced Functional Materials</i> , 2012 , 22, 625-631	15.6	95
197	A study of the production and reversible stability of EGaIn liquid metal microspheres using flow focusing. <i>Lab on A Chip</i> , 2012 , 12, 3961-7	7.2	94
196	Liquid metal actuation by electrical control of interfacial tension. <i>Applied Physics Reviews</i> , 2016 , 3, 031103	7.3	90
195	Liquid-Metal Microdroplets Formed Dynamically with Electrical Control of Size and Rate. <i>Advanced Materials</i> , 2016 , 28, 604-9	24	87
194	Attributes, Fabrication, and Applications of Gallium-Based Liquid Metal Particles. <i>Advanced Science</i> , 2020 , 7, 2000192	13.6	85
193	Recapillarity: Electrochemically Controlled Capillary Withdrawal of a Liquid Metal Alloy from Microchannels. <i>Advanced Functional Materials</i> , 2015 , 25, 671-678	15.6	84
192	A frequency shifting liquid metal antenna with pressure responsiveness. <i>Applied Physics Letters</i> , 2011 , 99, 013501	3.4	84
191	Ultrasoft Liquid Metal Elastomer Foams with Positive and Negative Piezopermittivity for Tactile Sensing. <i>Advanced Functional Materials</i> , 2020 , 30, 2002611	15.6	83
190	Silicones for Stretchable and Durable Soft Devices: Beyond Sylgard-184. <i>ACS Applied Materials & Interfaces</i> , 2018 , 10, 11261-11268	9.5	83
189	Antibacterial Liquid Metals: Biofilm Treatment Magnetic Activation. <i>ACS Nano</i> , 2020 , 14, 802-817	16.7	83

188	Field-Controlled Electrical Switch with Liquid Metal. <i>Advanced Science</i> , 2017 , 4, 1700169	13.6	80
187	Self-Folding Origami Microstrip Antennas. <i>IEEE Transactions on Antennas and Propagation</i> , 2014 , 62, 5416-5419	15.5	80
186	Fabrication of arrays of metal and metal oxide nanotubes by shadow evaporation. <i>ACS Nano</i> , 2008 , 2, 800-8	16.7	78
185	Reconfigurable liquid metal circuits by Laplace pressure shaping. <i>Applied Physics Letters</i> , 2012 , 101, 174102	10.2	76
184	Ultrastretchable, cyclable and recyclable 1- and 2-dimensional conductors based on physically cross-linked thermoplastic elastomer gels. <i>Soft Matter</i> , 2013 , 9, 7695	3.6	71
183	Liquid Metal Direct Write and 3D Printing: A Review. <i>Advanced Materials Technologies</i> , 2020 , 5, 2000070	6.8	70
182	Materials tactile logic via innervated soft thermochromic elastomers. <i>Nature Communications</i> , 2019 , 10, 4187	17.4	66
181	Phase Separation in Liquid Metal Nanoparticles. <i>Matter</i> , 2019 , 1, 192-204	12.7	66
180	On the Design of Microfluidic Implant Coil for Flexible Telemetry System. <i>IEEE Sensors Journal</i> , 2014 , 14, 1074-1080	4	66
179	Soft electrodes combining hydrogel and liquid metal. <i>Soft Matter</i> , 2018 , 14, 3296-3303	3.6	65
178	Flexible thermoelectric generators for body heat harvesting [Enhanced device performance using high thermal conductivity elastomer encapsulation on liquid metal interconnects. <i>Applied Energy</i> , 2020 , 262, 114370	10.7	64
177	Vinyl ethers in ultraviolet curable formulations for step and flash imprint lithography. <i>Journal of Vacuum Science & Technology an Official Journal of the American Vacuum Society B, Microelectronics Processing and Phenomena</i> , 2004 , 22, 131		59
176	Sonication-enabled rapid production of stable liquid metal nanoparticles grafted with poly(1-octadecene-alt-maleic anhydride) in aqueous solutions. <i>Nanoscale</i> , 2018 , 10, 19871-19878	7.7	58
175	Magneto-responsive hybrid materials based on cellulose nanocrystals. <i>Cellulose</i> , 2014 , 21, 2557-2566	5.5	56
174	Integration of pre-aligned liquid metal electrodes for neural stimulation within a user-friendly microfluidic platform. <i>Lab on A Chip</i> , 2013 , 13, 522-6	7.2	56
173	Fabrication of conjugated polymer nanowires by edge lithography. <i>Nano Letters</i> , 2008 , 8, 2100-5	11.5	56
172	Steering liquid metal flow in microchannels using low voltages. <i>Lab on A Chip</i> , 2015 , 15, 3905-11	7.2	55
171	Mechanochromic Stretchable Electronics. <i>ACS Applied Materials & Interfaces</i> , 2018 , 10, 29918-29924	9.5	54

170	Rapid Open-Air Digital Light 3D Printing of Thermoplastic Polymer. <i>Advanced Materials</i> , 2019 , 31, e1903970	3.7	54
169	Electric field and dewetting induced hierarchical structure formation in polymer/polymer/air trilayers. <i>Chaos</i> , 2005 , 15, 047506	3.3	54
168	Functional Liquid Metal Nanoparticles Produced by Liquid-Based Nebulization. <i>Advanced Materials Technologies</i> , 2019 , 4, 1800420	6.8	53
167	Patterned Liquid Metal Contacts for Printed Carbon Nanotube Transistors. <i>ACS Nano</i> , 2018 , 12, 5482-5488	8.7	49
166	Three-dimensional folding of pre-strained polymer sheets via absorption of laser light. <i>Journal of Applied Physics</i> , 2014 , 115, 204911	2.5	49
165	Cofabrication: a strategy for building multicomponent microsystems. <i>Accounts of Chemical Research</i> , 2010 , 43, 518-28	24.3	49
164	Bending of Responsive Hydrogel Sheets Guided by Field-Assembled Microparticle Endoskeleton Structures. <i>Small</i> , 2016 , 12, 2283-90	11	49
163	Selective and directional actuation of elastomer films using chained magnetic nanoparticles. <i>Nanoscale</i> , 2016 , 8, 1309-13	7.7	48
162	Photocurable Pillar Arrays Formed via Electrohydrodynamic Instabilities. <i>Chemistry of Materials</i> , 2006 , 18, 2043-2049	9.6	48
161	Self-healing materials for soft-matter machines and electronics. <i>NPG Asia Materials</i> , 2019 , 11,	10.3	47
160	Novel 3-D structures in polymer films by coupling external and internal fields. <i>Langmuir</i> , 2006 , 22, 4315-8	8	47
159	Patterning and Reversible Actuation of Liquid Gallium Alloys by Preventing Adhesion on Rough Surfaces. <i>ACS Applied Materials & Interfaces</i> , 2018 , 10, 44686-44695	9.5	47
158	Ultrastretchable Elastic Shape Memory Fibers with Electrical Conductivity. <i>Advanced Science</i> , 2019 , 6, 1901579	13.6	46
157	Self-Running Liquid Metal Drops that Delaminate Metal Films at Record Velocities. <i>ACS Applied Materials & Interfaces</i> , 2015 , 7, 23163-71	9.5	46
156	A Pressure Responsive Fluidic Microstrip Open Stub Resonator Using a Liquid Metal Alloy. <i>IEEE Microwave and Wireless Components Letters</i> , 2012 , 22, 577-579	2.6	46
155	Hydrogel/Elastomer Laminates Bonded via Fabric Interphases for Stimuli-Responsive Actuators. <i>Matter</i> , 2019 , 1, 674-689	12.7	45
154	Liquid Metal Nanoparticles as Initiators for Radical Polymerization of Vinyl Monomers. <i>ACS Macro Letters</i> , 2019 , 8, 1522-1527	6.6	44
153	Directed Assembly of Liquid Metal-Elastomer Conductors for Stretchable and Self-Healing Electronics. <i>Advanced Materials</i> , 2020 , 32, e2001642	24	43

152	Oxidation-Mediated Fingering in Liquid Metals. <i>Physical Review Letters</i> , 2017 , 119, 174502	7.4	41
151	Interfacial Rheology of Gallium-Based Liquid Metals. <i>Langmuir</i> , 2019 , 35, 11774-11783	4	41
150	UV plasmonic properties of colloidal liquid-metal eutectic gallium-indium alloy nanoparticles. <i>Scientific Reports</i> , 2019 , 9, 5345	4.9	40
149	Liquid Metal Composites with Anisotropic and Unconventional Piezoconductivity. <i>Matter</i> , 2020 , 3, 824-841	11.7	40
148	Electrowetting-actuated liquid metal for RF applications. <i>Journal of Micromechanics and Microengineering</i> , 2017 , 27, 025010	2	38
147	Hydrogel-enabled osmotic pumping for microfluidics: towards wearable human-device interfaces. <i>Lab on A Chip</i> , 2017 , 17, 710-716	7.2	38
146	Toughening stretchable fibers via serial fracturing of a metallic core. <i>Science Advances</i> , 2019 , 5, eaat4600	14.3	38
145	Production of Liquid Metal Spheres by Molding. <i>Metals</i> , 2014 , 4, 465-476	2.3	38
144	Surface modification of PET film via a large area atmospheric pressure plasma: An optical analysis of the plasma and surface characterization of the polymer film. <i>Surface and Coatings Technology</i> , 2017 , 309, 371-381	4.4	37
143	Gallium Liquid Metal: The Devil's Elixir. <i>Annual Review of Materials Research</i> , 2021 , 51, 381-408	12.8	37
142	Elastic Multifunctional Liquid Metal Fibers for Harvesting Mechanical and Electromagnetic Energy and as Self-Powered Sensors. <i>Advanced Energy Materials</i> , 2021 , 11, 2100411	21.8	36
141	Ionoprinted Multi-Responsive Hydrogel Actuators. <i>Micromachines</i> , 2016 , 7,	3.3	36
140	A Compound Frequency- and Polarization- Reconfigurable Crossed Dipole Using Multidirectional Spreading of Liquid Metal. <i>IEEE Antennas and Wireless Propagation Letters</i> , 2017 , 16, 79-82	3.8	35
139	Preparation of porous polymer membranes using nano- or micro-pillar arrays as templates. <i>Polymer</i> , 2004 , 45, 8469-8474	3.9	35
138	Controllable curvature from planar polymer sheets in response to light. <i>Soft Matter</i> , 2017 , 13, 2299-2308	8.6	34
137	Study of the kinetics of step and flash imprint lithography photopolymerization. <i>AIChE Journal</i> , 2005 , 51, 2547-2555	3.6	34
136	Energy Harvesting and Storage with Soft and Stretchable Materials. <i>Advanced Materials</i> , 2021 , 33, e2004832	11.2	34
135	Liquid gallium and the eutectic gallium indium (EGaIn) alloy: Dielectric functions from 1.24 to 3.1 eV by electrochemical reduction of surface oxides. <i>Applied Physics Letters</i> , 2016 , 109, 091905	3.4	33

- 134 Tough and stretchable ionogels by in situ phase separation.. *Nature Materials*, **2022**, 27 33
- 133 Controlling the kinetics of contact electrification with patterned surfaces. *Journal of the American Chemical Society*, **2009**, 131, 8746-7 16.4 32
- 132 Hybrid-Filler Stretchable Conductive Composites: From Fabrication to Application. *Small Science*, **2021**, 1, 2000080 32
- 131 Direct write printing of a self-encapsulating liquid metal-silicone composite. *Soft Matter*, **2020**, 16, 6608-6618 31
- 130 Kinetic parameters for step and flash imprint lithography photopolymerization. *AIChE Journal*, **2006**, 52, 777-784 3.6 31
- 129 Effects of etch barrier densification on step and flash imprint lithography. *Journal of Vacuum Science & Technology an Official Journal of the American Vacuum Society B, Microelectronics Processing and Phenomena*, **2005**, 23, 2553 31
- 128 Surface wrinkling by chemical modification of poly(dimethylsiloxane)-based networks during sputtering. *Soft Matter*, **2013**, 9, 7797 3.6 30
- 127 Vacuum-filling of liquid metals for 3D printed RF antennas. *Additive Manufacturing*, **2017**, 18, 221-227 6.1 29
- 126 Self-folding of polymer sheets using microwaves and graphene ink. *RSC Advances*, **2015**, 5, 89254-89261 3.7 29
- 125 Strain-controlled diffraction of light from stretchable liquid metal micro-components. *Sensors and Actuators A: Physical*, **2013**, 193, 246-250 3.9 26
- 124 High Thermal Conductivity Silicone Elastomer Doped with Graphene Nanoplatelets and Eutectic Gallium Liquid Metal Alloy. *ECS Journal of Solid State Science and Technology*, **2019**, 8, P357-P362 2 25
- 123 Modelling of shape memory polymer sheets that self-fold in response to localized heating. *Soft Matter*, **2015**, 11, 7827-34 3.6 25
- 122 High-aspect ratio polymeric pillar arrays formed via electrohydrodynamic patterning. *Journal of Materials Science*, **2008**, 43, 117-122 4.3 25
- 121 Shear-Driven Direct-Write Printing of Room-Temperature Gallium-Based Liquid Metal Alloys. *Advanced Engineering Materials*, **2019**, 21, 1900400 3.5 23
- 120 Simple geometric model to describe self-folding of polymer sheets. *Physical Review E*, **2014**, 89, 042601 2.4 23
- 119 Subnanometer replica molding of molecular steps on ionic crystals. *Nano Letters*, **2010**, 10, 4140-5 11.5 23
- 118 Drawing liquid metal wires at room temperature. *Extreme Mechanics Letters*, **2016**, 7, 55-63 3.9 23
- 117 Planar, Multifunctional 3D Printed Antennas Using Liquid Metal Parasitics. *IEEE Access*, **2019**, 7, 134245-134255 2.2 33

116	Lead-adsorbing ionogel-based encapsulation for impact-resistant, stable, and lead-safe perovskite modules. <i>Science Advances</i> , 2021 , 7, eabi8249	14.3	22
115	Electrically reconfigurable terahertz signal processing devices using liquid metal components. <i>Nature Communications</i> , 2018 , 9, 4202	17.4	22
114	Design and demonstration of a novel micro-Coulter counter utilizing liquid metal electrodes. <i>Journal of Micromechanics and Microengineering</i> , 2012 , 22, 115012	2	21
113	Electrically addressable parallel nanowires with 30 nm spacing from micromolding and nanoskiving. <i>Nano Letters</i> , 2008 , 8, 4568-73	11.5	21
112	Wicking-Polarization-Induced Water Cluster Size Effect on Triboelectric Evaporation Textiles. <i>Advanced Materials</i> , 2021 , 33, e2007352	24	21
111	Advances in Step and Flash imprint lithography 2003 ,		20
110	Overcoming Rayleigh-Plateau instabilities: Stabilizing and destabilizing liquid-metal streams via electrochemical oxidation. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2020 , 117, 19026-19032	11.5	20
109	Direct imprinting of dielectric materials for dual damascene processing 2005 , 5751, 210		19
108	Vinyl ether formulations for step and flash imprint lithography. <i>Journal of Vacuum Science & Technology an Official Journal of the American Vacuum Society B, Microelectronics Processing and Phenomena</i> , 2005 , 23, 2967		19
107	Flexible thermoelectric generator with liquid metal interconnects and low thermal conductivity silicone filler. <i>Npj Flexible Electronics</i> , 2021 , 5,	10.7	19
106	A simple electroless plating solution for 3D printed microwave components 2016 ,		19
105	Localized Instabilities of Liquid Metal Films via In-Plane Recapillarity. <i>Advanced Materials Interfaces</i> , 2016 , 3, 1600546	4.6	18
104	Amidation of Polyesters Is Slow in Nonaqueous Solvents: Efficient Amidation of Poly(ethylene terephthalate) with 3-Aminopropyltriethoxysilane in Water for Generating Multifunctional Surfaces. <i>ACS Applied Materials & Interfaces</i> , 2016 , 8, 35641-35649	9.5	18
103	Liquid Metal Composites with Enhanced Thermal Conductivity and Stability Using Molecular Thermal Linker. <i>Advanced Materials</i> , 2021 , 33, e2103104	24	18
102	Interfacial Tension Modulation of Liquid Metal via Electrochemical Oxidation. <i>Advanced Intelligent Systems</i> , 2021 , 3, 2100024	6	17
101	Antipathogenic properties and applications of low-dimensional materials. <i>Nature Communications</i> , 2021 , 12, 3897	17.4	17
100	Soft and Stretchable Liquid Metal Composites with Shape Memory and Healable Conductivity. <i>ACS Applied Materials & Interfaces</i> , 2021 , 13, 28916-28924	9.5	17
99	Self-Folding of Thick Polymer Sheets Using Gradients of Heat. <i>Journal of Mechanisms and Robotics</i> , 2016 , 8,	2.2	16

98	A Liquid Metal Artificial Muscle. <i>Advanced Materials</i> , 2021 , 33, e2103062	24	16
97	A fully coupled thermo-viscoelastic finite element model for self-folding shape memory polymer sheets. <i>Journal of Polymer Science, Part B: Polymer Physics</i> , 2017 , 55, 1207-1219	2.6	15
96	Hydrogel composites: Shaped after print. <i>Nature Materials</i> , 2016 , 15, 379-80	27	15
95	Thiol-containing polymeric embedding materials for nanoskiving. <i>Journal of Materials Chemistry C</i> , 2013 , 1, 121-130	7.1	15
94	Mesoscale modeling for SFIL simulating polymerization kinetics and densification 2004 ,		15
93	Principles of long-term fluids handling in paper-based wearables with capillary-evaporative transport. <i>Biomicrofluidics</i> , 2020 , 14, 034112	3.2	14
92	Electromechanical instabilities of thermoplastics: Theory and in situ observation. <i>Applied Physics Letters</i> , 2012 , 101, 141911	3.4	14
91	Thermo-mechanical transformation of shape memory polymers from initially flat discs to bowls and saddles. <i>Smart Materials and Structures</i> , 2019 , 28, 045011	3.4	14
90	Liquid-Metal-Filled 3-D Antenna Array Structure With an Integrated Feeding Network. <i>IEEE Antennas and Wireless Propagation Letters</i> , 2018 , 17, 739-742	3.8	13
89	Wearable Osmotic-Capillary Patch for Prolonged Sweat Harvesting and Sensing. <i>ACS Applied Materials & Interfaces</i> , 2021 , 13, 8071-8081	9.5	13
88	Are Contact Angle Measurements Useful for Oxide-Coated Liquid Metals?. <i>Langmuir</i> , 2021 , 37, 10914-10923	4.23	13
87	Electrowetting without external voltage using paint-on electrodes. <i>Lab on A Chip</i> , 2017 , 17, 1069-1075	7.2	12
86	Step and Flash Imprint Lithography Modeling and Process Development. <i>Journal of Photopolymer Science and Technology = [Fotoporima Konwakai Shi]</i> , 2004 , 17, 417-419	0.7	12
85	Lighter and Stronger: Cofabricated Electrodes and Variable Stiffness Elements in Dielectric Actuators. <i>Advanced Intelligent Systems</i> , 2020 , 2, 2000069	6	12
84	Surface Modification of Gallium-Based Liquid Metals: Mechanisms and Applications in Biomedical Sensors and Soft Actuators. <i>Advanced Intelligent Systems</i> , 2021 , 3, 2000159	6	12
83	Liquid metal motor. <i>iScience</i> , 2021 , 24, 101911	6.1	12
82	A Soft Variable-Area Electrical-Double-Layer Energy Harvester. <i>Advanced Materials</i> , 2021 , 33, e2103142	24	12
81	Broad-spectrum treatment of bacterial biofilms using magneto-responsive liquid metal particles. <i>Journal of Materials Chemistry B</i> , 2020 , 8, 10776-10787	7.3	11

80	Liquid Metals for Soft and Stretchable Electronics. <i>Microsystems and Nanosystems</i> , 2016 , 3-30	0.4	11
79	Patterning via self-organization and self-folding: Beyond conventional lithography. <i>MRS Bulletin</i> , 2016 , 41, 93-96	3.2	11
78	Metallophobic Coatings to Enable Shape Reconfigurable Liquid Metal Inside 3D Printed Plastics. <i>ACS Applied Materials & Interfaces</i> , 2021 , 13, 12709-12718	9.5	11
77	A Liquid Metal Mediated Metallic Coating for Antimicrobial and Antiviral Fabrics. <i>Advanced Materials</i> , 2021 , 33, e2104298	24	11
76	Self-Folding Metal Origami. <i>Advanced Intelligent Systems</i> , 2019 , 1, 1900059	6	10
75	Stretchable bioelectronics Current and future. <i>MRS Bulletin</i> , 2017 , 42, 960-967	3.2	10
74	Aerosol Spray Deposition of Liquid Metal and Elastomer Coatings for Rapid Processing of Stretchable Electronics. <i>Micromachines</i> , 2021 , 12,	3.3	10
73	Effects of thermo-mechanical behavior and hinge geometry on folding response of shape memory polymer sheets. <i>Journal of Applied Physics</i> , 2017 , 122, 195103	2.5	9
72	Rapid prototyping of low loss 3D printed waveguides for millimeter-wave applications 2017 ,		9
71	Microfluidic coaxial transmission line and phase shifter. <i>Microwave and Optical Technology Letters</i> , 2014 , 56, 1459-1462	1.2	9
70	Synthesis of Liquid Gallium@Reduced Graphene Oxide Core-Shell Nanoparticles with Enhanced Photoacoustic and Photothermal Performance.. <i>Journal of the American Chemical Society</i> , 2022 ,	16.4	9
69	Corrosion resistant coating based on thiol-ene polymeric system. <i>Progress in Organic Coatings</i> , 2019 , 133, 350-356	4.8	8
68	Soft, Stretchable, and Pneumatically Triggered Thermochromic Optical Filters with Embedded Phosphorescence. <i>ACS Applied Materials & Interfaces</i> , 2020 , 12, 26424-26431	9.5	8
67	Oxide-mediated mechanisms of gallium foam generation and stabilization during shear mixing in air. <i>Soft Matter</i> , 2020 , 16, 5801-5805	3.6	8
66	. <i>IEEE Transactions on Microwave Theory and Techniques</i> , 2015 , 63, 3122-3130	4.1	8
65	Liquid metals at room temperature. <i>Physics Today</i> , 2021 , 74, 30-36	0.9	8
64	Liquid-Solid Mixtures of Ga Metal Infused with Cu Microparticles and Nanoparticles for Microscale and Nanoscale Patterning of Solid Metals at Room Temperature. <i>ACS Applied Nano Materials</i> , 2020 , 3, 12064-12070	5.6	7
63	3D Printed Coaxial Transmission Line Using Low Loss Dielectric and Liquid Metal Conductor 2018 ,		7

62	In-plane deformation of shape memory polymer sheets programmed using only scissors. <i>Polymer</i> , 2014 , 55, 5948-5952	3.9	7
61	Applications of liquid metals in nanotechnology.. <i>Nanoscale Horizons</i> , 2022 ,	10.8	7
60	Liquid-Metal-Enabled Mechanical-Energy-Induced CO Conversion. <i>Advanced Materials</i> , 2021 , e2105789	2.4	7
59	A Review of Liquid Metal Embrittlement: Cracking Open the Disparate Mechanisms. <i>Metallurgical and Materials Transactions A: Physical Metallurgy and Materials Science</i> , 2021 , 52, 2158-2172	2.3	7
58	Reversible Underwater Adhesion for Soft Robotic Feet by Leveraging Electrochemically Tunable Liquid Metal Interfaces. <i>ACS Applied Materials & Interfaces</i> , 2021 , 13, 37904-37914	9.5	7
57	Liquid Metal Elastomer with Flytrap-inspired Pillar Structure for Stress Sensing. <i>Composites Science and Technology</i> , 2021 , 109066	8.6	7
56	Shrink Films Get a Grip. <i>ACS Applied Polymer Materials</i> , 2019 , 1, 1088-1095	4.3	6
55	Liquid metals as ultra-stretchable, soft, and shape reconfigurable conductors 2015 ,		6
54	Pump-free feedback control of a frequency reconfigurable liquid metal monopole 2015 ,		6
53	Transistors formed from a single lithography step using information encoded in topography. <i>Small</i> , 2010 , 6, 2050-7	11	6
52	An Automated Statistical Process Control Study of Inline Mixing Using Spectrophotometric Detection. <i>Journal of Chemical Education</i> , 2006 , 83, 110	2.4	6
51	Planarization for reverse-tone step and flash imprint lithography 2006 , 6151, 688		6
50	Dynamic control of reflective/diffusive optical surfaces on EGaIn liquid metal. <i>Optical Materials Express</i> , 2021 , 11, 2099	2.6	6
49	Jumping liquid metal droplets controlled electrochemically. <i>Applied Physics Letters</i> , 2021 , 118, 081601	3.4	6
48	Liquid Metal Hybrid Composites with High-Sensitivity and Large Dynamic Range Enabled by Micro- and Macrostructure Engineering. <i>ACS Applied Polymer Materials</i> ,	4.3	6
47	Skin-Inspired Capacitive Stress Sensor with Large Dynamic Range via Bilayer Liquid Metal Elastomers. <i>Advanced Materials Technologies</i> , 2101074	6.8	6
46	Healable, Recyclable, and Multifunctional Soft Electronics Based on Biopolymer Hydrogel and Patterned Liquid Metal.. <i>Small</i> , 2022 , e2201643	11	6
45	Microfluidic channels fabricated from poly(vinylmethylsiloxane) networks that resist swelling by organic solvents. <i>Lab on A Chip</i> , 2013 , 13, 4317-20	7.2	5

44	RESHAPE: A Liquid Metal-Based Reshapable Aperture for Compound Frequency, Pattern, and Polarization Reconfiguration. <i>IEEE Transactions on Antennas and Propagation</i> , 2021 , 69, 2581-2594	4.9	5
43	Liquid Metal-Triggered Assembly of Phenolic Nanocoatings with Antioxidant and Antibacterial Properties. <i>ACS Applied Nano Materials</i> , 2021 , 4, 2987-2998	5.6	5
42	Osmotically Enabled Wearable Patch for Sweat Harvesting and Lactate Quantification.. <i>Micromachines</i> , 2021 , 12,	3.3	5
41	Light-Induced Buckles Localized by Polymeric Inks Printed on Bilayer Films. <i>Small</i> , 2018 , 14, e1704460	11	4
40	A Method to Manipulate Surface Tension of a Liquid Metal via Surface Oxidation and Reduction. <i>Journal of Visualized Experiments</i> , 2016 , e53567	1.6	4
39	3-D printing of liquid metals for stretchable and flexible conductors 2014 ,		4
38	Stretchable and Soft Electroadhesion Using Liquid-Metal Subsurface Microelectrodes. <i>Advanced Materials Technologies</i> , 2021 , 6, 2100263	6.8	4
37	Towards Wearable Electrochemical Lactate Sensing using Osmotic-Capillary Microfluidic Pumping 2019 ,		4
36	Optimizing the energy balance to achieve autonomous self-powering for vigilant health and IoT applications. <i>Journal of Physics: Conference Series</i> , 2019 , 1407, 012001	0.3	4
35	Reversibly Reconfigurable Liquid Metal Patch Antenna Using A Superhydrophobic Spray-Coating 2018 ,		4
34	3D Visible-Light-Driven Plasmonic Oxide Frameworks Deviated from Liquid Metal Nanodroplets. <i>Advanced Functional Materials</i> ,2106397	15.6	4
33	Counterpropagating Gradients of Antibacterial and Antifouling Polymer Brushes.. <i>Biomacromolecules</i> , 2021 ,	6.9	4
32	Liquid Metal Interdigitated Capacitive Strain Sensor with Normal Stress Insensitivity. <i>Advanced Intelligent Systems</i> ,2100201	6	4
31	Investigation of biasing conditions and energy dissipation in electrochemically controlled capillarity liquid metal electronics. <i>Electronics Letters</i> , 2020 , 56, 323-325	1.1	3
30	Effect of surface interactions on the settlement of particles on a sinusoidally corrugated substrate.. <i>RSC Advances</i> , 2020 , 10, 11348-11356	3.7	3
29	Microfluidics: Recapillarity: Electrochemically Controlled Capillary Withdrawal of a Liquid Metal Alloy from Microchannels (Adv. Funct. Mater. 5/2015). <i>Advanced Functional Materials</i> , 2015 , 25, 654-654	15.6	3
28	Buckled Topography to Enhance Light Absorption in Thin Film Organic Photovoltaics Comprising CuPc/C60 Bilayer Laminates. <i>Zeitschrift Fur Physikalische Chemie</i> , 2015 , 229,	3.1	3
27	In vitro electrochemical assessment of electrodes for neurostimulation in roach biobots. <i>PLoS ONE</i> , 2018 , 13, e0203880	3.7	3

26	Sensors: Stretchable Capacitive Sensors of Torsion, Strain, and Touch Using Double Helix Liquid Metal Fibers (Adv. Funct. Mater. 20/2017). <i>Advanced Functional Materials</i> , 2017 , 27,	15.6	2
25	Room-Temperature Liquid Metals as Functional Liquids 2019 , 251-271		2
24	Making Light Work of Metal Bending: Laser Forming in Rapid Prototyping. <i>Quantum Beam Science</i> , 2020 , 4, 44	1.6	2
23	Application of a Laser Cutter to Pattern Wrinkles on Polymer Films. <i>ACS Applied Polymer Materials</i> , 2020 , 2, 1848-1855	4.3	2
22	2014 ,		2
21	Interactions between Liquid Metal Droplets and Bacterial, Fungal, and Mammalian Cells. <i>Advanced Materials Interfaces</i> , 2102113	4.6	2
20	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,	11.5	2
19	Shape memory polymers for self-folding via compression of thermoplastic sheets. <i>Journal of Applied Polymer Science</i> , 2018 , 135, 46889	2.9	2
18	A bottom-up approach to generate isotropic liquid metal network in polymer-enabled 3D thermal management. <i>Chemical Engineering Journal</i> , 2022 , 439, 135674	14.7	2
17	A river (of liquid metal) runs through it. <i>National Science Review</i> , 2020 , 7, 721-722	10.8	1
16	EML webinar overview: Liquid metals at the extreme. <i>Extreme Mechanics Letters</i> , 2020 , 40, 100863	3.9	1
15	Using liquid metal alloy (EGaIn) to electrochemically enhance SS stimulation electrodes for biobotic applications. <i>Annual International Conference of the IEEE Engineering in Medicine and Biology Society IEEE Engineering in Medicine and Biology Society Annual International Conference</i> , 2016 , 2016, 2141-2144	0.9	1
14	Recent applications of liquid metals featuring nanoscale surface oxides 2016 ,		1
13	Modeling of Self-Assembly Dynamics of Photolithographically Patterned MUFFINS Biosensor Arrays. <i>Materials Research Society Symposia Proceedings</i> , 2007 , 1002, 1		1
12	Photocurable pillar arrays formed via AC- and ultrasound-induced electrohydrodynamic instabilities 2006 , 6151, 936		1
11	Flexible and Stretchable Liquid Metal Electronics 2020 , 185-230		1
10	Stiff or Extensible in Seconds: Light-Induced Corrugations in Thin Polymer Sheets. <i>Advanced Materials Technologies</i> , 2021 , 6, 2000789	6.8	1
9	Direct measurement of rate-dependent mode I and mode II traction-separation laws for cohesive zone modeling of laminated glass. <i>Composite Structures</i> , 2022 , 279, 114759	5.3	1

8	Superhydrophobic/oleophobic coatings based on a catalyst driven thiol-epoxy-acrylate ternary system. <i>Journal of Applied Polymer Science</i> , 2018 , 135, 46710	2.9	o
7	Interactions between Liquid Metal Droplets and Bacterial, Fungal, and Mammalian Cells (Adv. Mater. Interfaces 7/2022). <i>Advanced Materials Interfaces</i> , 2022 , 9, 2270035	4.6	o
6	A Wearable Patch for Prolonged Sweat Lactate Harvesting and Sensing. <i>Annual International Conference of the IEEE Engineering in Medicine and Biology Society IEEE Engineering in Medicine and Biology Society Annual International Conference</i> , 2021 , 2021, 6863-6866	0.9	o
5	Stimulator Paradigm: Artificial Retina 2014 , 593-622		
4	Le gallium, un métal liquide d'avenir. <i>Pour la science Fr</i> , 2022 , N° 532 Février, 48-54	0	
3	Deposition of silicate coatings on poly(ethylene terephthalate) for improved scratch and solvent resistance. <i>Journal of Applied Polymer Science</i> , 2022 , 139, 51800	2.9	
2	Polymeric encapsulation of liquids via plasma surface polymerization. <i>Journal of Applied Polymer Science</i> , 2020 , 137, 48880	2.9	
1	Energy Harvesting and Storage: Energy Harvesting and Storage with Soft and Stretchable Materials (Adv. Mater. 19/2021). <i>Advanced Materials</i> , 2021 , 33, 2170151	24	