

Michael David Dickey

List of Publications by Year in descending order

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248
papers

23,768
citations

10351

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all docs

261
docs citations

261
times ranked

16407
citing authors

#	ARTICLE	IF	CITATIONS
1	Stretchable and Soft Electronics using Liquid Metals. <i>Advanced Materials</i> , 2017, 29, 1606425.	11.1	1,222
2	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.	7.8	1,170
3	Liquid metals: fundamentals and applications in chemistry. <i>Chemical Society Reviews</i> , 2018, 47, 4073-4111.	18.7	763
4	3D Printing of Free Standing Liquid Metal Microstructures. <i>Advanced Materials</i> , 2013, 25, 5081-5085.	11.1	749
5	Foldable Printed Circuit Boards on Paper Substrates. <i>Advanced Functional Materials</i> , 2010, 20, 28-35.	7.8	630
6	Eutectic Gallium-Indium (EGaIn): A Moldable Liquid Metal for Electrical Characterization of Self-Assembled Monolayers. <i>Angewandte Chemie - International Edition</i> , 2008, 47, 142-144.	7.2	533
7	Emerging Applications of Liquid Metals Featuring Surface Oxides. <i>ACS Applied Materials & Interfaces</i> , 2014, 6, 18369-18379.	4.0	522
8	Ultrastretchable Fibers with Metallic Conductivity Using a Liquid Metal Alloy Core. <i>Advanced Functional Materials</i> , 2013, 23, 2308-2314.	7.8	501
9	Reversibly Deformable and Mechanically Tunable Fluidic Antennas. <i>Advanced Functional Materials</i> , 2009, 19, 3632-3637.	7.8	496
10	Self-folding of polymer sheets using local light absorption. <i>Soft Matter</i> , 2012, 8, 1764-1769.	1.2	466
11	Transformable liquid-metal nanomedicine. <i>Nature Communications</i> , 2015, 6, 10066.	5.8	466
12	Self-Healing Stretchable Wires for Reconfigurable Circuit Wiring and 3D Microfluidics. <i>Advanced Materials</i> , 2013, 25, 1589-1592.	11.1	385
13	Reversible patterning and actuation of hydrogels by electrically assisted ionoprinting. <i>Nature Communications</i> , 2013, 4, 2257.	5.8	380
14	Liquid metal enabled microfluidics. <i>Lab on A Chip</i> , 2017, 17, 974-993.	3.1	354
15	Flexible Liquid Metal Alloy (EGaIn) Microstrip Patch Antenna. <i>IEEE Transactions on Antennas and Propagation</i> , 2012, 60, 2151-2156.	3.1	340
16	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, 14047-14051.	3.3	309
17	Electro-actuated hydrogel walkers with dual responsive legs. <i>Soft Matter</i> , 2014, 10, 1337-1348.	1.2	301
18	2D or not 2D? Shape-programming polymer sheets. <i>Progress in Polymer Science</i> , 2016, 52, 79-106.	11.8	292

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19	Light-Powered Electrical Switch Based on Cargo-Lifting Azobenzene Monolayers. <i>Angewandte Chemie - International Edition</i> , 2008, 47, 3407-3409.	7.2	276
20	Methods to pattern liquid metals. <i>Journal of Materials Chemistry C</i> , 2015, 3, 3834-3841.	2.7	275
21	Emergence of Liquid Metals in Nanotechnology. <i>ACS Nano</i> , 2019, 13, 7388-7395.	7.3	269
22	Liquid metal-filled magnetorheological elastomer with positive piezoconductivity. <i>Nature Communications</i> , 2019, 10, 1300.	5.8	267
23	Flexible thermoelectric generator using bulk legs and liquid metal interconnects for wearable electronics. <i>Applied Energy</i> , 2017, 202, 736-745.	5.1	260
24	Stretchable Capacitive Sensors of Torsion, Strain, and Touch Using Double Helix Liquid Metal Fibers. <i>Advanced Functional Materials</i> , 2017, 27, 1605630.	7.8	257
25	Sequential self-folding of polymer sheets. <i>Science Advances</i> , 2017, 3, e1602417.	4.7	254
26	Attributes, Fabrication, and Applications of Gallium-Based Liquid Metal Particles. <i>Advanced Science</i> , 2020, 7, 2000192.	5.6	246
27	Tough and stretchable ionogels by in situ phase separation. <i>Nature Materials</i> , 2022, 21, 359-365.	13.3	246
28	Optical Antenna Arrays on a Fiber Facet for <i>in Situ</i> Surface-Enhanced Raman Scattering Detection. <i>Nano Letters</i> , 2009, 9, 1132-1138.	4.5	235
29	Handwritten, Soft Circuit Boards and Antennas Using Liquid Metal Nanoparticles. <i>Small</i> , 2015, 11, 6397-6403.	5.2	234
30	Thread as a Matrix for Biomedical Assays. <i>ACS Applied Materials & Interfaces</i> , 2010, 2, 1722-1728.	4.0	224
31	Wafer-scale two-dimensional semiconductors from printed oxide skin of liquid metals. <i>Nature Communications</i> , 2017, 8, 14482.	5.8	219
32	Inherently aligned microfluidic electrodes composed of liquid metal. <i>Lab on A Chip</i> , 2011, 11, 905.	3.1	216
33	Charge Transport and Rectification in Arrays of SAM-Based Tunneling Junctions. <i>Nano Letters</i> , 2010, 10, 3611-3619.	4.5	213
34	Antibacterial Liquid Metals: Biofilm Treatment <i>via</i> Magnetic Activation. <i>ACS Nano</i> , 2020, 14, 802-817.	7.3	198
35	Towards All-Soft Matter Circuits: Prototypes of Quasi-Liquid Devices with Memristor Characteristics. <i>Advanced Materials</i> , 2011, 23, 3559-3564.	11.1	189
36	Shape-transformable liquid metal nanoparticles in aqueous solution. <i>Chemical Science</i> , 2017, 8, 3832-3837.	3.7	181

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37	Liquid Metal Direct Write and 3D Printing: A Review. <i>Advanced Materials Technologies</i> , 2020, 5, .	3.0	180
38	Enhanced Endosomal Escape by Light-Fueled Liquid-Metal Transformer. <i>Nano Letters</i> , 2017, 17, 2138-2145.	4.5	179
39	Room temperature CO ₂ reduction to solid carbon species on liquid metals featuring atomically thin ceria interfaces. <i>Nature Communications</i> , 2019, 10, 865.	5.8	179
40	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, 13756-13759.	6.6	174
41	3D printing of liquid metals as fugitive inks for fabrication of 3D microfluidic channels. <i>Lab on A Chip</i> , 2016, 16, 1812-1820.	3.1	174
42	Vacuum filling of complex microchannels with liquid metal. <i>Lab on A Chip</i> , 2017, 17, 3043-3050.	3.1	169
43	Influence of Water on the Interfacial Behavior of Gallium Liquid Metal Alloys. <i>ACS Applied Materials & Interfaces</i> , 2014, 6, 22467-22473.	4.0	168
44	A reconfigurable liquid metal antenna driven by electrochemically controlled capillarity. <i>Journal of Applied Physics</i> , 2015, 117, .	1.1	159
45	Ultrasoft Liquid Metal Elastomer Foams with Positive and Negative Piezopermittivity for Tactile Sensing. <i>Advanced Functional Materials</i> , 2020, 30, 2002611.	7.8	154
46	Silicones for Stretchable and Durable Soft Devices: Beyond Sylgard-184. <i>ACS Applied Materials & Interfaces</i> , 2018, 10, 11261-11268.	4.0	149
47	Viscoelastic properties of oxide-coated liquid metals. <i>Journal of Rheology</i> , 2009, 53, 1305-1326.	1.3	139
48	Nanoskiving: A New Method To Produce Arrays of Nanostructures. <i>Accounts of Chemical Research</i> , 2008, 41, 1566-1577.	7.6	135
49	A Technique to Transfer Metallic Nanoscale Patterns to Small and Non-Planar Surfaces. <i>ACS Nano</i> , 2009, 3, 59-65.	7.3	132
50	Gallium Liquid Metal: The Devil's Elixir. <i>Annual Review of Materials Research</i> , 2021, 51, 381-408.	4.3	130
51	Liquid metal actuation by electrical control of interfacial tension. <i>Applied Physics Reviews</i> , 2016, 3, 031103.	5.5	129
52	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.	3.1	124
53	Liquid-Metal Microdroplets Formed Dynamically with Electrical Control of Size and Rate. <i>Advanced Materials</i> , 2016, 28, 604-609.	11.1	116
54	Ionic Current Rectification in Soft-Matter Diodes with Liquid-Metal Electrodes. <i>Advanced Functional Materials</i> , 2012, 22, 625-631.	7.8	113

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55	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.	5.1	113
56	Recapillarity: Electrochemically Controlled Capillary Withdrawal of a Liquid Metal Alloy from Microchannels. <i>Advanced Functional Materials</i> , 2015, 25, 671-678.	7.8	112
57	Rapid Open-Air Digital Light 3D Printing of Thermoplastic Polymer. <i>Advanced Materials</i> , 2019, 31, e1903970.	11.1	112
58	Phase Separation in Liquid Metal Nanoparticles. <i>Matter</i> , 2019, 1, 192-204.	5.0	110
59	Liquid Metal Nanoparticles as Initiators for Radical Polymerization of Vinyl Monomers. <i>ACS Macro Letters</i> , 2019, 8, 1522-1527.	2.3	109
60	Field-Controlled Electrical Switch with Liquid Metal. <i>Advanced Science</i> , 2017, 4, 1700169.	5.6	107
61	A frequency shifting liquid metal antenna with pressure responsiveness. <i>Applied Physics Letters</i> , 2011, 99, .	1.5	106
62	Self-Folding Origami Microstrip Antennas. <i>IEEE Transactions on Antennas and Propagation</i> , 2014, 62, 5416-5419.	3.1	106
63	Soft electrodes combining hydrogel and liquid metal. <i>Soft Matter</i> , 2018, 14, 3296-3303.	1.2	99
64	Sonication-enabled rapid production of stable liquid metal nanoparticles grafted with poly(1-octadecene- <i>i>alt</i>-maleic anhydride) in aqueous solutions. <i>Nanoscale</i>, 2018, 10, 19871-19878.</i>	2.8	98
65	Materials tactile logic via innervated soft thermochromic elastomers. <i>Nature Communications</i> , 2019, 10, 4187.	5.8	98
66	Elastic Multifunctional Liquid-Metal Fibers for Harvesting Mechanical and Electromagnetic Energy and as Self-Powered Sensors. <i>Advanced Energy Materials</i> , 2021, 11, 2100411.	10.2	97
67	Energy Harvesting and Storage with Soft and Stretchable Materials. <i>Advanced Materials</i> , 2021, 33, e2004832.	11.1	91
68	Reconfigurable liquid metal circuits by Laplace pressure shaping. <i>Applied Physics Letters</i> , 2012, 101, .	1.5	88
69	On the Design of Microfluidic Implant Coil for Flexible Telemetry System. <i>IEEE Sensors Journal</i> , 2014, 14, 1074-1080.	2.4	85
70	Ultrastretchable, cyclable and recyclable 1- and 2-dimensional conductors based on physically cross-linked thermoplastic elastomer gels. <i>Soft Matter</i> , 2013, 9, 7695.	1.2	84
71	A Liquid Metal Mediated Metallic Coating for Antimicrobial and Antiviral Fabrics. <i>Advanced Materials</i> , 2021, 33, e2104298.	11.1	84
72	Fabrication of Arrays of Metal and Metal Oxide Nanotubes by Shadow Evaporation. <i>ACS Nano</i> , 2008, 2, 800-808.	7.3	82

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73	A Liquid Metal Artificial Muscle. <i>Advanced Materials</i> , 2021, 33, e2103062.	11.1	82
74	Hybrid Filler Stretchable Conductive Composites: From Fabrication to Application. <i>Small Science</i> , 2021, 1, 2000080.	5.8	80
75	Liquid Metal Composites with Enhanced Thermal Conductivity and Stability Using Molecular Thermal Linker. <i>Advanced Materials</i> , 2021, 33, e2103104.	11.1	79
76	Integration of pre-aligned liquid metal electrodes for neural stimulation within a user-friendly microfluidic platform. <i>Lab on A Chip</i> , 2013, 13, 522-526.	3.1	78
77	Functional Liquid Metal Nanoparticles Produced by Liquid-Based Nebulization. <i>Advanced Materials Technologies</i> , 2019, 4, 1800420.	3.0	78
78	Liquid Metal Composites with Anisotropic and Unconventional Piezoconductivity. <i>Matter</i> , 2020, 3, 824-841.	5.0	77
79	Interfacial Rheology of Gallium-Based Liquid Metals. <i>Langmuir</i> , 2019, 35, 11774-11783.	1.6	75
80	Patterning and Reversible Actuation of Liquid Gallium Alloys by Preventing Adhesion on Rough Surfaces. <i>ACS Applied Materials & Interfaces</i> , 2018, 10, 44686-44695.	4.0	74
81	Hydrogel/Elastomer Laminates Bonded via Fabric Interphases for Stimuli-Responsive Actuators. <i>Matter</i> , 2019, 1, 674-689.	5.0	74
82	Ultrastretchable Elastic Shape Memory Fibers with Electrical Conductivity. <i>Advanced Science</i> , 2019, 6, 1901579.	5.6	74
83	Mechanochromic Stretchable Electronics. <i>ACS Applied Materials & Interfaces</i> , 2018, 10, 29918-29924.	4.0	72
84	Directed Assembly of Liquid Metal-Elastomer Conductors for Stretchable and Self-Healing Electronics. <i>Advanced Materials</i> , 2020, 32, e2001642.	11.1	72
85	Lead-adsorbing ionogel-based encapsulation for impact-resistant, stable, and lead-safe perovskite modules. <i>Science Advances</i> , 2021, 7, eabi8249.	4.7	71
86	Selective and directional actuation of elastomer films using chained magnetic nanoparticles. <i>Nanoscale</i> , 2016, 8, 1309-1313.	2.8	68
87	Self-healing materials for soft-matter machines and electronics. <i>NPG Asia Materials</i> , 2019, 11, .	3.8	68
88	Steering liquid metal flow in microchannels using low voltages. <i>Lab on A Chip</i> , 2015, 15, 3905-3911.	3.1	64
89	Oxidation-Mediated Fingering in Liquid Metals. <i>Physical Review Letters</i> , 2017, 119, 174502.	2.9	63
90	Patterned Liquid Metal Contacts for Printed Carbon Nanotube Transistors. <i>ACS Nano</i> , 2018, 12, 5482-5488.	7.3	63

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91	Direct write printing of a self-encapsulating liquid metal-silicone composite. <i>Soft Matter</i> , 2020, 16, 6608-6618.	1.2	63
92	Antipathogenic properties and applications of low-dimensional materials. <i>Nature Communications</i> , 2021, 12, 3897.	5.8	63
93	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.	1.6	62
94	Bending of Responsive Hydrogel Sheets Guided by Field-Assembled Microparticle Endoskeleton Structures. <i>Small</i> , 2016, 12, 2283-2290.	5.2	62
95	Magneto-responsive hybrid materials based on cellulose nanocrystals. <i>Cellulose</i> , 2014, 21, 2557-2566.	2.4	61
96	UV plasmonic properties of colloidal liquid-metal eutectic gallium-indium alloy nanoparticles. <i>Scientific Reports</i> , 2019, 9, 5345.	1.6	61
97	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.	2.0	59
98	Interfacial Tension Modulation of Liquid Metal via Electrochemical Oxidation. <i>Advanced Intelligent Systems</i> , 2021, 3, 2100024.	3.3	59
99	Fabrication of Conjugated Polymer Nanowires by Edge Lithography. <i>Nano Letters</i> , 2008, 8, 2100-2105.	4.5	58
100	Three-dimensional folding of pre-strained polymer sheets <i>via</i> absorption of laser light. <i>Journal of Applied Physics</i> , 2014, 115, .	1.1	58
101	Liquid-Metal-Enabled Mechanical-Energy-Induced CO ₂ Conversion. <i>Advanced Materials</i> , 2022, 34, e2105789.	11.1	58
102	Self-Running Liquid Metal Drops that Delaminate Metal Films at Record Velocities. <i>ACS Applied Materials & Interfaces</i> , 2015, 7, 23163-23171.	4.0	57
103	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.	2.4	57
104	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, 144, 6779-6790.	6.6	57
105	Production of Liquid Metal Spheres by Molding. <i>Metals</i> , 2014, 4, 465-476.	1.0	55
106	Electric field and dewetting induced hierarchical structure formation in polymer/polymer/air trilayers. <i>Chaos</i> , 2005, 15, 047506.	1.0	54
107	Are Contact Angle Measurements Useful for Oxide-Coated Liquid Metals?. <i>Langmuir</i> , 2021, 37, 10914-10923.	1.6	54
108	Cofabrication: A Strategy for Building Multicomponent Microsystems. <i>Accounts of Chemical Research</i> , 2010, 43, 518-528.	7.6	53

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109	Wickingâ€Polarizationâ€Induced Water Cluster Size Effect on Triboelectric Evaporation Textiles. <i>Advanced Materials</i> , 2021, 33, e2007352.	11.1	53
110	Toughening stretchable fibers via serial fracturing of a metallic core. <i>Science Advances</i> , 2019, 5, eaat4600.	4.7	52
111	Photocurable Pillar Arrays Formed via Electrohydrodynamic Instabilities. <i>Chemistry of Materials</i> , 2006, 18, 2043-2049.	3.2	51
112	Novel 3-D Structures in Polymer Films by Coupling External and Internal Fields. <i>Langmuir</i> , 2006, 22, 4315-4318.	1.6	51
113	Hydrogel-enabled osmotic pumping for microfluidics: towards wearable human-device interfaces. <i>Lab on A Chip</i> , 2017, 17, 710-716.	3.1	50
114	Soft and Stretchable Liquid Metal Composites with Shape Memory and Healable Conductivity. <i>ACS Applied Materials & Interfaces</i> , 2021, 13, 28916-28924.	4.0	50
115	Applications of liquid metals in nanotechnology. <i>Nanoscale Horizons</i> , 2022, 7, 141-167.	4.1	47
116	Ionoprinted Multi-Responsive Hydrogel Actuators. <i>Micromachines</i> , 2016, 7, 98.	1.4	46
117	Electrowetting-actuated liquid metal for RF applications. <i>Journal of Micromechanics and Microengineering</i> , 2017, 27, 025010.	1.5	45
118	Controllable curvature from planar polymer sheets in response to light. <i>Soft Matter</i> , 2017, 13, 2299-2308.	1.2	45
119	Flexible thermoelectric generator with liquid metal interconnects and low thermal conductivity silicone filler. <i>Npj Flexible Electronics</i> , 2021, 5, .	5.1	44
120	Wireless Wearable Electrochemical Sensing Platform with Zero-Power Osmotic Sweat Extraction for Continuous Lactate Monitoring. <i>ACS Sensors</i> , 2022, 7, 2037-2048.	4.0	44
121	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.	2.2	43
122	Liquid gallium and the eutectic gallium indium (EGaln) alloy: Dielectric functions from 1.24 to 3.1 eV by electrochemical reduction of surface oxides. <i>Applied Physics Letters</i> , 2016, 109, .	1.5	42
123	Overcoming Rayleighâ€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.	3.3	42
124	Self-folding of polymer sheets using microwaves and graphene ink. <i>RSC Advances</i> , 2015, 5, 89254-89261.	1.7	40
125	Healable, Recyclable, and Multifunctional Soft Electronics Based on Biopolymer Hydrogel and Patterned Liquid Metal. <i>Small</i> , 2022, 18, e2201643.	5.2	40
126	Vacuum-filling of liquid metals for 3D printed RF antennas. <i>Additive Manufacturing</i> , 2017, 18, 221-227.	1.7	39

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127	Surface Modification of Gallium-Based Liquid Metals: Mechanisms and Applications in Biomedical Sensors and Soft Actuators. <i>Advanced Intelligent Systems</i> , 2021, 3, 2000159.	3.3	39
128	Wearable Osmotic-Capillary Patch for Prolonged Sweat Harvesting and Sensing. <i>ACS Applied Materials & Interfaces</i> , 2021, 13, 8071-8081.	4.0	39
129	Preparation of porous polymer membranes using nano- or micro-pillar arrays as templates. <i>Polymer</i> , 2004, 45, 8469-8474.	1.8	38
130	Controlling the Kinetics of Contact Electrification with Patterned Surfaces. <i>Journal of the American Chemical Society</i> , 2009, 131, 8746-8747.	6.6	37
131	Shear-Driven Direct-Write Printing of Room-Temperature Gallium-Based Liquid Metal Alloys. <i>Advanced Engineering Materials</i> , 2019, 21, 1900400.	1.6	37
132	High Thermal Conductivity Silicone Elastomer Doped with Graphene Nanoplatelets and Eutectic Gallium Liquid Metal Alloy. <i>ECS Journal of Solid State Science and Technology</i> , 2019, 8, P357-P362.	0.9	37
133	Study of the kinetics of step and flash imprint lithography photopolymerization. <i>AIChE Journal</i> , 2005, 51, 2547-2555.	1.8	36
134	Modelling of shape memory polymer sheets that self-fold in response to localized heating. <i>Soft Matter</i> , 2015, 11, 7827-7834.	1.2	36
135	Electrically reconfigurable terahertz signal processing devices using liquid metal components. <i>Nature Communications</i> , 2018, 9, 4202.	5.8	35
136	Planar, Multifunctional 3D Printed Antennas Using Liquid Metal Parasitics. <i>IEEE Access</i> , 2019, 7, 134245-134255.	2.6	35
137	Kinetic parameters for step and flash imprint lithography photopolymerization. <i>AIChE Journal</i> , 2006, 52, 777-784.	1.8	34
138	Effects of etch barrier densification on 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, 2553.	1.6	33
139	A simple electroless plating solution for 3D printed microwave components. , 2016, , .		33
140	Metallophobic Coatings to Enable Shape Reconfigurable Liquid Metal Inside 3D Printed Plastics. <i>ACS Applied Materials & Interfaces</i> , 2021, 13, 12709-12718.	4.0	33
141	A Soft Variable-Area Electrical-Double-Layer Energy Harvester. <i>Advanced Materials</i> , 2021, 33, e2103142.	11.1	33
142	Surface wrinkling by chemical modification of poly(dimethylsiloxane)-based networks during sputtering. <i>Soft Matter</i> , 2013, 9, 7797.	1.2	32
143	Principles of long-term fluids handling in paper-based wearables with capillary-evaporative transport. <i>Biomicrofluidics</i> , 2020, 14, 034112.	1.2	32
144	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.	1.1	32

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145	Drawing liquid metal wires at room temperature. <i>Extreme Mechanics Letters</i> , 2016, 7, 55-63.	2.0	31
146	Broad-spectrum treatment of bacterial biofilms using magneto-responsive liquid metal particles. <i>Journal of Materials Chemistry B</i> , 2020, 8, 10776-10787.	2.9	31
147	Strain-controlled diffraction of light from stretchable liquid metal micro-components. <i>Sensors and Actuators A: Physical</i> , 2013, 193, 246-250.	2.0	30
148	Simple geometric model to describe self-folding of polymer sheets. <i>Physical Review E</i> , 2014, 89, 042601.	0.8	30
149	Aerosol Spray Deposition of Liquid Metal and Elastomer Coatings for Rapid Processing of Stretchable Electronics. <i>Micromachines</i> , 2021, 12, 146.	1.4	30
150	Liquid Metal Interdigitated Capacitive Strain Sensor with Normal Stress Insensitivity. <i>Advanced Intelligent Systems</i> , 2022, 4, .	3.3	28
151	Design and demonstration of a novel micro-Coulter counter utilizing liquid metal electrodes. <i>Journal of Micromechanics and Microengineering</i> , 2012, 22, 115012.	1.5	27
152	Amidation of Polyesters Is Slow in Nonaqueous Solvents: Efficient Amidation of Poly(ethylene) Tj ETQq0 0 0 rgBT /Overlock 10 Tf 50 467 <i>ACS Applied Materials & Interfaces</i> , 2016, 8, 35641-35649.	4.0	27
153	Liquid metal motor. <i>IScience</i> , 2021, 24, 101911.	1.9	27
154	High-aspect ratio polymeric pillar arrays formed via electrohydrodynamic patterning. <i>Journal of Materials Science</i> , 2008, 43, 117-122.	1.7	26
155	Liquid Metal-Triggered Assembly of Phenolic Nanocoatings with Antioxidant and Antibacterial Properties. <i>ACS Applied Nano Materials</i> , 2021, 4, 2987-2998.	2.4	26
156	Direct imprinting of dielectric materials for dual damascene processing. , 2005, 5751, 210.		25
157	Lighter and Stronger: Cofabricated Electrodes and Variable Stiffness Elements in Dielectric Actuators. <i>Advanced Intelligent Systems</i> , 2020, 2, 2000069.	3.3	24
158	Reversible Underwater Adhesion for Soft Robotic Feet by Leveraging Electrochemically Tunable Liquid Metal Interfaces. <i>ACS Applied Materials & Interfaces</i> , 2021, 13, 37904-37914.	4.0	24
159	Liquid metal elastomer with flytrap-inspired pillar structure for stress sensing. <i>Composites Science and Technology</i> , 2021, 216, 109066.	3.8	24
160	Advances in Step and Flash imprint lithography. , 2003, , .		23
161	Subnanometer Replica Molding of Molecular Steps on Ionic Crystals. <i>Nano Letters</i> , 2010, 10, 4140-4145.	4.5	23
162	Localized Instabilities of Liquid Metal Films via Inâ€Plane Recapillarity. <i>Advanced Materials Interfaces</i> , 2016, 3, 1600546.	1.9	23

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163	3D Visible-Light-Driven Plasmonic Oxide Frameworks Deviated from Liquid Metal Nanodroplets. <i>Advanced Functional Materials</i> , 2021, 31, 2106397.	7.8	23
164	Skin-Inspired Capacitive Stress Sensor with Large Dynamic Range via Bilayer Liquid Metal Elastomers. <i>Advanced Materials Technologies</i> , 2022, 7, .	3.0	23
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