Michael David Dickey

List of Publications by Year
in descending order

248	23,768	9786 73	8630 146
papers	citations	h-index	g-index

261	261	261	16407
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	Stretchable and Soft Electronics using Liquid Metals. Advanced Materials, 2017, 29, 1606425.	21.0	1,222
2	Eutectic Galliumâ€Indium (EGaIn): A Liquid Metal Alloy for the Formation of Stable Structures in Microchannels at Room Temperature. Advanced Functional Materials, 2008, 18, 1097-1104.	14.9	1,170
3	Liquid metals: fundamentals and applications in chemistry. Chemical Society Reviews, 2018, 47, 4073-4111.	38.1	763
4	3D Printing of Free Standing Liquid Metal Microstructures. Advanced Materials, 2013, 25, 5081-5085.	21.0	749
5	Foldable Printed Circuit Boards on Paper Substrates. Advanced Functional Materials, 2010, 20, 28-35.	14.9	630
6	Eutectic Galliumâ€“Indium (EGaIn): A Moldable Liquid Metal for Electrical Characterization of Selfâ€Assembled Monolayers. Angewandte Chemie - International Edition, 2008, 47, 142-144.	13.8	533
7	Emerging Applications of Liquid Metals Featuring Surface Oxides. ACS Applied Materials & Interfaces, 2014, 6, 18369-18379.	8.0	522
8	Ultrastretchable Fibers with Metallic Conductivity Using a Liquid Metal Alloy Core. Advanced Functional Materials, 2013, 23, 2308-2314.	14.9	501
9	Reversibly Deformable and Mechanically Tunable Fluidic Antennas. Advanced Functional Materials, 2009, 19, 3632-3637.	14.9	496
10	Self-folding of polymer sheets using local light absorption. Soft Matter, 2012, 8, 1764-1769.	2.7	466
11	Transformable liquid-metal nanomedicine. Nature Communications, 2015, 6, 10066.	12.8	466
12	Selfâ€Healing Stretchable Wires for Reconfigurable Circuit Wiring and 3D Microfluidics. Advanced Materials, 2013, 25, 1589-1592.	21.0	385
13	Reversible patterning and actuation of hydrogels by electrically assisted ionoprinting. Nature Communications, 2013, 4, 2257.	12.8	380
14	Liquid metal enabled microfluidics. Lab on A Chip, 2017, 17, 974-993.	6.0	354
15	Flexible Liquid Metal Alloy (EGaIn) Microstrip Patch Antenna. IEEE Transactions on Antennas and Propagation, 2012, 60, 2151-2156.	5.1	340
16	Giant and switchable surface activity of liquid metal via surface oxidation. Proceedings of the National Academy of Sciences of the United States of America, 2014, 111, 14047-14051.	7.1	309
17	Electro-actuated hydrogel walkers with dual responsive legs. Soft Matter, 2014, 10, 1337-1348.	2.7	301
18	â€œ2D or not 2Dâ€• Shape-programming polymer sheets. Progress in Polymer Science, 2016, 52, 79-106.	24.7	292

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19	Lightâ€Powered Electrical Switch Based on Cargoâ€Lifting Azobenzene Monolayers. Angewandte Chemie - International Edition, 2008, 47, 3407-3409.	13.8	276
20	Methods to pattern liquid metals. Journal of Materials Chemistry C, 2015, 3, 3834-3841.	5.5	275
21	Emergence of Liquid Metals in Nanotechnology. ACS Nano, 2019, 13, 7388-7395.	14.6	269
22	Liquid metal-filled magnetorheological elastomer with positive piezoconductivity. Nature Communications, 2019, 10, 1300.	12.8	267
23	Flexible thermoelectric generator using bulk legs and liquid metal interconnects for wearable electronics. Applied Energy, 2017, 202, 736-745.	10.1	260
24	Stretchable Capacitive Sensors of Torsion, Strain, and Touch Using Double Helix Liquid Metal Fibers. Advanced Functional Materials, 2017, 27, 1605630.	14.9	257
25	Sequential self-folding of polymer sheets. Science Advances, 2017, 3, e1602417.	10.3	254
26	Attributes, Fabrication, and Applications of Galliumâ€Based Liquid Metal Particles. Advanced Science, 2020, 7, 2000192.	11.2	246
27	Tough and stretchable ionogels by in situ phase separation. Nature Materials, 2022, 21, 359-365.	27.5	246
28	Optical Antenna Arrays on a Fiber Facet for in Situ Surface-Enhanced Raman Scattering Detection. Nano Letters, 2009, 9, 1132-1138.	9.1	235
29	Handwritten, Soft Circuit Boards and Antennas Using Liquid Metal Nanoparticles. Small, 2015, 11, 6397-6403.	10.0	234
30	Thread as a Matrix for Biomedical Assays. ACS Applied Materials & Interfaces, 2010, 2, 1722-1728.	8.0	224
31	Wafer-scale two-dimensional semiconductors from printed oxide skin of liquid metals. Nature Communications, 2017, 8, 14482.	12.8	219
32	Inherently aligned microfluidic electrodes composed of liquid metal. Lab on A Chip, 2011, 11, 905.	6.0	216
33	Charge Transport and Rectification in Arrays of SAM-Based Tunneling Junctions. Nano Letters, 2010, 10, 3611-3619.	9.1	213
34	Antibacterial Liquid Metals: Biofilm Treatment via Magnetic Activation. ACS Nano, 2020, 14, 802-817.	14.6	198
35	Towards Allâ€Soft Matter Circuits: Prototypes of Quasiâ€Liquid Devices with Memristor Characteristics. Advanced Materials, 2011, 23, 3559-3564.	21.0	189
36	Shape-transformable liquid metal nanoparticles in aqueous solution. Chemical Science, 2017, 8, 3832-3837.	7.4	181

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37	Liquid Metal Direct Write and 3D Printing: A Review. Advanced Materials Technologies, 2020, 5, .	5.8	180
38	Enhanced Endosomal Escape by Light-Fueled Liquid-Metal Transformer. Nano Letters, 2017, 17, 2138-2145.	9.1	179
39	Room temperature CO2 reduction to solid carbon species on liquid metals featuring atomically thin ceria interfaces. Nature Communications, 2019, 10, 865.	12.8	179
40	Facile Conversion of Hydroxy Double Salts to Metalâ€“Organic Frameworks Using Metal Oxide Particles and Atomic Layer Deposition Thin-Film Templates. Journal of the American Chemical Society, 2015, 137, 13756-13759.	13.7	174
41	3D printing of liquid metals as fugitive inks for fabrication of 3D microfluidic channels. Lab on A Chip, 2016, 16, 1812-1820.	6.0	174
42	Vacuum filling of complex microchannels with liquid metal. Lab on A Chip, 2017, 17, 3043-3050.	6.0	169
43	Influence of Water on the Interfacial Behavior of Gallium Liquid Metal Alloys. ACS Applied Materials & Interfaces, 2014, 6, 22467-22473.	8.0	168
44	A reconfigurable liquid metal antenna driven by electrochemically controlled capillarity. Journal of Applied Physics, 2015, 117, .	2.5	159
45	Ultrasoft Liquid Metal Elastomer Foams with Positive and Negative Piezopermittivity for Tactile Sensing. Advanced Functional Materials, 2020, 30, 2002611.	14.9	154
46	Silicones for Stretchable and Durable Soft Devices: Beyond Sylgard-184. ACS Applied Materials & Interfaces, 2018, 10, 11261-11268.	8.0	149
47	Viscoelastic properties of oxide-coated liquid metals. Journal of Rheology, 2009, 53, 1305-1326.	2.6	139
48	Nanoskiving: A New Method To Produce Arrays of Nanostructures. Accounts of Chemical Research, 2008, 41, 1566-1577.	15.6	135
49	A Technique to Transfer Metallic Nanoscale Patterns to Small and Non-Planar Surfaces. ACS Nano, 2009, 3, 59-65.	14.6	132
50	Gallium Liquid Metal: The Devil's Elixir. Annual Review of Materials Research, 2021, 51, 381-408.	9.3	130
51	Liquid metal actuation by electrical control of interfacial tension. Applied Physics Reviews, 2016, 3, 031103.	11.3	129
52	A study of the production and reversible stability of EGaIn liquid metal microspheres using flow focusing. Lab on A Chip, 2012, 12, 3961.	6.0	124
53	Liquidâ€Metal Microdroplets Formed Dynamically with Electrical Control of Size and Rate. Advanced Materials, 2016, 28, 604-609.	21.0	116
54	Ionic Current Rectification in Softâ€Matter Diodes with Liquidâ€Metal Electrodes. Advanced Functional Materials, 2012, 22, 625-631.	14.9	113

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55	Flexible thermoelectric generators for body heat harvesting â€“ Enhanced device performance using high thermal conductivity elastomer encapsulation on liquid metal interconnects. Applied Energy, 2020, 262, 114370.	10.1	113
56	Recapillarity: Electrochemically Controlled Capillary Withdrawal of a Liquid Metal Alloy from Microchannels. Advanced Functional Materials, 2015, 25, 671-678.	14.9	112
57	Rapid Openâ€Air Digital Light 3D Printing of Thermoplastic Polymer. Advanced Materials, 2019, 31, e1903970.	21.0	112
58	Phase Separation in Liquid Metal Nanoparticles. Matter, 2019, 1, 192-204.	10.0	110
59	Liquid Metal Nanoparticles as Initiators for Radical Polymerization of Vinyl Monomers. ACS Macro Letters, 2019, 8, 1522-1527.	4.8	109
60	Fieldâ€Controlled Electrical Switch with Liquid Metal. Advanced Science, 2017, 4, 1700169.	11.2	107
61	A frequency shifting liquid metal antenna with pressure responsiveness. Applied Physics Letters, 2011, 99, .	3.3	106
62	Self-Folding Origami Microstrip Antennas. IEEE Transactions on Antennas and Propagation, 2014, 62, 5416-5419.	5.1	106
63	Soft electrodes combining hydrogel and liquid metal. Soft Matter, 2018, 14, 3296-3303.	2.7	99
64	Sonication-enabled rapid production of stable liquid metal nanoparticles grafted with poly(1-octadecene-alt-maleic anhydride) in aqueous solutions. Nanoscale, 2018, 10, 19871-19878.	5.6	98
65	Materials tactile logic via innervated soft thermochromic elastomers. Nature Communications, 2019, 10, 4187.	12.8	98
66	Elastic Multifunctional Liquidâ€“Metal Fibers for Harvesting Mechanical and Electromagnetic Energy and as Selfâ€Powered Sensors. Advanced Energy Materials, 2021, 11, 2100411.	19.5	97
67	Energy Harvesting and Storage with Soft and Stretchable Materials. Advanced Materials, 2021, 33, e2004832.	21.0	91
68	Reconfigurable liquid metal circuits by Laplace pressure shaping. Applied Physics Letters, 2012, 101, .	3.3	88
69	On the Design of Microfluidic Implant Coil for Flexible Telemetry System. IEEE Sensors Journal, 2014, 14, 1074-1080.	4.7	85
70	Ultrastretchable, cyclable and recyclable 1- and 2-dimensional conductors based on physically cross-linked thermoplastic elastomer gels. Soft Matter, 2013, 9, 7695.	2.7	84
71	A Liquid Metal Mediated Metallic Coating for Antimicrobial and Antiviral Fabrics. Advanced Materials, 2021, 33, e2104298.	21.0	84
72	Fabrication of Arrays of Metal and Metal Oxide Nanotubes by Shadow Evaporation. ACS Nano, 2008, 2, 800-808.	14.6	82

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73	A Liquid Metal Artificial Muscle. Advanced Materials, 2021, 33, e2103062.	21.0	82
74	Hybridâ€Filler Stretchable Conductive Composites: From Fabrication to Application. Small Science, 2021, 1, 2000080.	9.9	80
75	Liquid Metal Composites with Enhanced Thermal Conductivity and Stability Using Molecular Thermal Linker. Advanced Materials, 2021, 33, e2103104.	21.0	79
76	Integration of pre-aligned liquid metal electrodes for neural stimulation within a user-friendly microfluidic platform. Lab on A Chip, 2013, 13, 522-526.	6.0	78
77	Functional Liquid Metal Nanoparticles Produced by Liquidâ€Based Nebulization. Advanced Materials Technologies, 2019, 4, 1800420.	5.8	78
78	Liquid Metal Composites with Anisotropic and Unconventional Piezoconductivity. Matter, 2020, 3, 824-841.	10.0	77
79	Interfacial Rheology of Gallium-Based Liquid Metals. Langmuir, 2019, 35, 11774-11783.	3.5	75
80	Patterning and Reversible Actuation of Liquid Gallium Alloys by Preventing Adhesion on Rough Surfaces. ACS Applied Materials & Interfaces, 2018, 10, 44686-44695.	8.0	74
81	Hydrogel/Elastomer Laminates Bonded via Fabric Interphases for Stimuli-Responsive Actuators. Matter, 2019, 1, 674-689.	10.0	74
82	Ultrastretchable Elastic Shape Memory Fibers with Electrical Conductivity. Advanced Science, 2019, 6, 1901579.	11.2	74
83	Mechanochromic Stretchable Electronics. ACS Applied Materials & Interfaces, 2018, 10, 29918-29924.	8.0	72
84	Directed Assembly of Liquid Metalâ€“Elastomer Conductors for Stretchable and Selfâ€Healing Electronics. Advanced Materials, 2020, 32, e2001642.	21.0	72
85	Lead-adsorbing ionogel-based encapsulation for impact-resistant, stable, and lead-safe perovskite modules. Science Advances, 2021, 7, eabi8249.	10.3	71
86	Selective and directional actuation of elastomer films using chained magnetic nanoparticles. Nanoscale, 2016, 8, 1309-1313.	5.6	68
87	Self-healing materials for soft-matter machines and electronics. NPG Asia Materials, 2019, 11, .	7.9	68
88	Steering liquid metal flow in microchannels using low voltages. Lab on A Chip, 2015, 15, 3905-3911.	6.0	64
89	Oxidation-Mediated Fingering in Liquid Metals. Physical Review Letters, 2017, 119, 174502.	7.8	63
90	Patterned Liquid Metal Contacts for Printed Carbon Nanotube Transistors. ACS Nano, 2018, 12, 5482-5488.	14.6	63

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91	Direct write printing of a self-encapsulating liquid metalâ€“silicone composite. Soft Matter, 2020, 16, 6608-6618.	2.7	63
92	Antipathogenic properties and applications of low-dimensional materials. Nature Communications, 2021, 12, 3897.	12.8	63
93	Vinyl ethers in ultraviolet curable formulations for step and flash imprint lithography. Journal of Vacuum Science & Technology an Official Journal of the American Vacuum Society B, Microelectronics Processing and Phenomena, 2004, 22, 131.	1.6	62
94	Bending of Responsive Hydrogel Sheets Guided by Fieldâ€Assembled Microparticle Endoskeleton Structures. Small, 2016, 12, 2283-2290.	10.0	62
95	Magneto-responsive hybrid materials based on cellulose nanocrystals. Cellulose, 2014, 21, 2557-2566.	4.9	61
96	UV plasmonic properties of colloidal liquid-metal eutectic gallium-indium alloy nanoparticles. Scientific Reports, 2019, 9, 5345.	3.3	61
97	A Pressure Responsive Fluidic Microstrip Open Stub Resonator Using a Liquid Metal Alloy. IEEE Microwave and Wireless Components Letters, 2012, 22, 577-579.	3.2	59
98	Interfacial Tension Modulation of Liquid Metal via Electrochemical Oxidation. Advanced Intelligent Systems, 2021, 3, 2100024.	6.1	59
99	Fabrication of Conjugated Polymer Nanowires by Edge Lithography. Nano Letters, 2008, 8, 2100-2105.	9.1	58
100	Three-dimensional folding of pre-strained polymer sheets via absorption of laser light. Journal of Applied Physics, 2014, 115, .	2.5	58
101	Liquidâ€Metalâ€Enabled Mechanicalâ€Energyâ€Induced CO₂ Conversion. Advanced Materials, 2022, 34, e2105789.	21.0	58
102	Self-Running Liquid Metal Drops that Delaminate Metal Films at Record Velocities. ACS Applied Materials & Interfaces, 2015, 7, 23163-23171.	8.0	57
103	A Compound Frequency- and Polarization- Reconfigurable Crossed Dipole Using Multidirectional Spreading of Liquid Metal. IEEE Antennas and Wireless Propagation Letters, 2017, 16, 79-82.	4.0	57
104	Synthesis of Liquid Gallium@Reduced Graphene Oxide Coreâ€“Shell Nanoparticles with Enhanced Photoacoustic and Photothermal Performance. Journal of the American Chemical Society, 2022, 144, 6779-6790.	13.7	57
105	Production of Liquid Metal Spheres by Molding. Metals, 2014, 4, 465-476.	2.3	55
106	Electric field and dewetting induced hierarchical structure formation in polymer/polymer/air trilayers. Chaos, 2005, 15, 047506.	2.5	54
107	Are Contact Angle Measurements Useful for Oxide-Coated Liquid Metals?. Langmuir, 2021, 37, 10914-10923.	3.5	54
108	Cofabrication: A Strategy for Building Multicomponent Microsystems. Accounts of Chemical Research, 2010, 43, 518-528.	15.6	53

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109	Wickingâ€“Polarizationâ€Induced Water Cluster Size Effect on Triboelectric Evaporation Textiles. Advanced Materials, 2021, 33, e2007352.	21.0	53
110	Toughening stretchable fibers via serial fracturing of a metallic core. Science Advances, 2019, 5, eaat4600.	10.3	52
111	Photocurable Pillar Arrays Formed via Electrohydrodynamic Instabilities. Chemistry of Materials, 2006, 18, 2043-2049.	6.7	51
112	Novel 3-D Structures in Polymer Films by Coupling External and Internal Fields. Langmuir, 2006, 22, 4315-4318.	3.5	51
113	Hydrogel-enabled osmotic pumping for microfluidics: towards wearable human-device interfaces. Lab on A Chip, 2017, 17, 710-716.	6.0	50
114	Soft and Stretchable Liquid Metal Composites with Shape Memory and Healable Conductivity. ACS Applied Materials & Interfaces, 2021, 13, 28916-28924.	8.0	50
115	Applications of liquid metals in nanotechnology. Nanoscale Horizons, 2022, 7, 141-167.	8.0	47
116	Ionoprinted Multi-Responsive Hydrogel Actuators. Micromachines, 2016, 7, 98.	2.9	46
117	Electrowetting-actuated liquid metal for RF applications. Journal of Micromechanics and Microengineering, 2017, 27, 025010.	2.6	45
118	Controllable curvature from planar polymer sheets in response to light. Soft Matter, 2017, 13, 2299-2308.	2.7	45
119	Flexible thermoelectric generator with liquid metal interconnects and low thermal conductivity silicone filler. Npj Flexible Electronics, 2021, 5, .	10.7	44
120	Wireless Wearable Electrochemical Sensing Platform with Zero-Power Osmotic Sweat Extraction for Continuous Lactate Monitoring. ACS Sensors, 2022, 7, 2037-2048.	7.8	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. Surface and Coatings Technology, 2017, 309, 371-381.	4.8	43
122	Liquid gallium and the eutectic gallium indium (EGaIn) alloy: Dielectric functions from 1.24 to 3.1 eV by electrochemical reduction of surface oxides. Applied Physics Letters, 2016, 109, .	3.3	42
123	Overcoming Rayleighâ€“Plateau instabilities: Stabilizing and destabilizing liquid-metal streams via electrochemical oxidation. Proceedings of the National Academy of Sciences of the United States of America, 2020, 117, 19026-19032.	7.1	42
124	Self-folding of polymer sheets using microwaves and graphene ink. RSC Advances, 2015, 5, 89254-89261.	3.6	40
125	Healable, Recyclable, and Multifunctional Soft Electronics Based on Biopolymer Hydrogel and Patterned Liquid Metal. Small, 2022, 18, e2201643.	10.0	40
126	Vacuum-filling of liquid metals for 3D printed RF antennas. Additive Manufacturing, 2017, 18, 221-227.	3.0	39

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127	Surface Modification of Galliumâ€Based Liquid Metals: Mechanisms and Applications in Biomedical Sensors and Soft Actuators. Advanced Intelligent Systems, 2021, 3, 2000159.	6.1	39
128	Wearable Osmotic-Capillary Patch for Prolonged Sweat Harvesting and Sensing. ACS Applied Materials & Interfaces, 2021, 13, 8071-8081.	8.0	39
129	Preparation of porous polymer membranes using nano- or micro-pillar arrays as templates. Polymer, 2004, 45, 8469-8474.	3.8	38
130	Controlling the Kinetics of Contact Electrification with Patterned Surfaces. Journal of the American Chemical Society, 2009, 131, 8746-8747.	13.7	37
131	Shearâ€Driven Directâ€Write Printing of Roomâ€Temperature Galliumâ€Based Liquid Metal Alloys. Advanced Engineering Materials, 2019, 21, 1900400.	3.5	37
132	High Thermal Conductivity Silicone Elastomer Doped with Graphene Nanoplatelets and Eutectic GaIn Liquid Metal Alloy. ECS Journal of Solid State Science and Technology, 2019, 8, P357-P362.	1.8	37
133	Study of the kinetics of step and flash imprint lithography photopolymerization. AICHE Journal, 2005, 51, 2547-2555.	3.6	36
134	Modelling of shape memory polymer sheets that self-fold in response to localized heating. Soft Matter, 2015, 11, 7827-7834.	2.7	36
135	Electrically reconfigurable terahertz signal processing devices using liquid metal components. Nature Communications, 2018, 9, 4202.	12.8	35
136	Planar, Multifunctional 3D Printed Antennas Using Liquid Metal Parasitics. IEEE Access, 2019, 7, 134245-134255.	4.2	35
137	Kinetic parameters for step and flash imprint lithography photopolymerization. AICHE Journal, 2006, 52, 777-784.	3.6	34
138	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.	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. ACS Applied Materials & Interfaces, 2021, 13, 12709-12718.	8.0	33
141	A Soft Variableâ€Area Electricalâ€Doubleâ€Layer Energy Harvester. Advanced Materials, 2021, 33, e2103142.	21.0	33
142	Surface wrinkling by chemical modification of poly(dimethylsiloxane)-based networks during sputtering. Soft Matter, 2013, 9, 7797.	2.7	32
143	Principles of long-term fluids handling in paper-based wearables with capillaryâ€“evaporative transport. Biomicrofluidics, 2020, 14, 034112.	2.4	32
144	A Review of Liquid Metal Embrittlement: Cracking Open the Disparate Mechanisms. Metallurgical and Materials Transactions A: Physical Metallurgy and Materials Science, 2021, 52, 2158-2172.	2.2	32

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145	Drawing liquid metal wires at room temperature. Extreme Mechanics Letters, 2016, 7, 55-63.	4.1	31
146	Broad-spectrum treatment of bacterial biofilms using magneto-responsive liquid metal particles. Journal of Materials Chemistry B, 2020, 8, 10776-10787.	5.8	31
147	Strain-controlled diffraction of light from stretchable liquid metal micro-components. Sensors and Actuators A: Physical, 2013, 193, 246-250.	4.1	30
148	Simple geometric model to describe self-folding of polymer sheets. Physical Review E, 2014, 89, 042601.	2.1	30
149	Aerosol Spray Deposition of Liquid Metal and Elastomer Coatings for Rapid Processing of Stretchable Electronics. Micromachines, 2021, 12, 146.	2.9	30
150	Liquid Metal Interdigitated Capacitive Strain Sensor with Normal Stress Insensitivity. Advanced Intelligent Systems, 2022, 4, .	6.1	28
151	Design and demonstration of a novel micro-Coulter counter utilizing liquid metal electrodes. Journal of Micromechanics and Microengineering, 2012, 22, 115012.	2.6	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 ACS Applied Materials & Interfaces, 2016, 8, 35641-35649.	8.0	27
153	Liquid metal motor. IScience, 2021, 24, 101911.	4.1	27
154	High-aspect ratio polymeric pillar arrays formed via electrohydrodynamic patterning. Journal of Materials Science, 2008, 43, 117-122.	3.7	26
155	Liquid Metal-Triggered Assembly of Phenolic Nanocoatings with Antioxidant and Antibacterial Properties. ACS Applied Nano Materials, 2021, 4, 2987-2998.	5.0	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. Advanced Intelligent Systems, 2020, 2, 2000069.	6.1	24
158	Reversible Underwater Adhesion for Soft Robotic Feet by Leveraging Electrochemically Tunable Liquid Metal Interfaces. ACS Applied Materials & Interfaces, 2021, 13, 37904-37914.	8.0	24
159	Liquid metal elastomer with flytrap-inspired pillar structure for stress sensing. Composites Science and Technology, 2021, 216, 109066.	7.8	24
160	Advances in Step and Flash imprint lithography. , 2003, , .		23
161	Subnanometer Replica Molding of Molecular Steps on Ionic Crystals. Nano Letters, 2010, 10, 4140-4145.	9.1	23
162	Localized Instabilities of Liquid Metal Films via Inâ€Plane Recapillarity. Advanced Materials Interfaces, 2016, 3, 1600546.	3.7	23

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163	3D Visibleâ€Lightâ€Driven Plasmonic Oxide Frameworks Deviated from Liquid Metal Nanodroplets. Advanced Functional Materials, 2021, 31, 2106397.	14.9	23
164	Skinâ€Inspired Capacitive Stress Sensor with Large Dynamic Range via Bilayer Liquid Metal Elastomers. Advanced Materials Technologies, 2022, 7, .	5.8	23
165	Liquid Metal Hybrid Composites with High-Sensitivity and Large Dynamic Range Enabled by Micro- and Macrostructure Engineering. ACS Applied Polymer Materials, 2021, 3, 5302-5315.	4.4	22
166	Electrically Addressable Parallel Nanowires with 30 nm Spacing from Micromolding and Nanoskiving. Nano Letters, 2008, 8, 4568-4573.	9.1	21
167	Self-Folding of Thick Polymer Sheets Using Gradients of Heat. Journal of Mechanisms and Robotics, 2016, 8, .	2.2	21
168	A fully coupled thermoâ€viscoelastic finite element model for selfâ€folding shape memory polymer sheets. Journal of Polymer Science, Part B: Polymer Physics, 2017, 55, 1207-1219.	2.1	21
169	Liquid-Metal-Filled 3-D Antenna Array Structure With an Integrated Feeding Network. IEEE Antennas and Wireless Propagation Letters, 2018, 17, 739-742.	4.0	21
170	Thermo-mechanical transformation of shape memory polymers from initially flat discs to bowls and saddles. Smart Materials and Structures, 2019, 28, 045011.	3.5	21
171	Counterpropagating Gradients of Antibacterial and Antifouling Polymer Brushes. Biomacromolecules, 2022, 23, 424-430.	5.4	21
172	Mesoscale modeling for SFIL simulating polymerization kinetics and densification. , 2004, , .		20
173	Vinyl ether formulations for 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, 2967.	1.6	20
174	Selfâ€Folding Metal Origami. Advanced Intelligent Systems, 2019, 1, 1900059.	6.1	20
175	Shaped after print. Nature Materials, 2016, 15, 379-380.	27.5	19
176	Liquidâ€“Solid Mixtures of Ga Metal Infused with Cu Microparticles and Nanoparticles for Microscale and Nanoscale Patterning of Solid Metals at Room Temperature. ACS Applied Nano Materials, 2020, 3, 12064-12070.	5.0	19
177	Interactions between Liquid Metal Droplets and Bacterial, Fungal, and Mammalian Cells. Advanced Materials Interfaces, 2022, 9, .	3.7	19
178	A bottom-up approach to generate isotropic liquid metal network in polymer-enabled 3D thermal management. Chemical Engineering Journal, 2022, 439, 135674.	12.7	19
179	Thiol-containing polymeric embedding materials for nanoskiving. Journal of Materials Chemistry C, 2013, 1, 121-130.	5.5	18
180	Rapid prototyping of low loss 3D printed waveguides for millimeter-wave applications. , 2017, , .		18

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181	Osmotically Enabled Wearable Patch for Sweat Harvesting and Lactate Quantification. Micromachines, 2021, 12, 1513.	2.9	18
182	Noncontact rotation, levitation, and acceleration of flowing liquid metal wires. Proceedings of the National Academy of Sciences of the United States of America, 2022, 119, .	7.1	17
183	Electromechanical instabilities of thermoplastics: Theory and in situ observation. Applied Physics Letters, 2012, 101, 141911.	3.3	16
184	Liquid metals at room temperature. Physics Today, 2021, 74, 30-36.	0.3	16
185	Stretchable and Soft Electroadhesion Using Liquidâ€Metal Subsurface Microelectrodes. Advanced Materials Technologies, 2021, 6, 2100263.	5.8	16
186	Liquid Metals for Soft and Stretchable Electronics. Microsystems and Nanosystems, 2016, , 3-30.	0.1	15
187	Electrowetting without external voltage using paint-on electrodes. Lab on A Chip, 2017, 17, 1069-1075.	6.0	15
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