

Michael David Dickey

List of Publications by Year in descending order

Source: <https://exaly.com/author-pdf/7779835/publications.pdf>

Version: 2024-02-01

248
papers

23,768
citations

10351

72
h-index

8599

146
g-index

261
all docs

261
docs citations

261
times ranked

16407
citing authors

#	ARTICLE	IF	CITATIONS
1	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.	3.1	7
2	Liquidâ€Metalâ€Enabled Mechanicalâ€Energyâ€Induced CO ₂ Conversion. <i>Advanced Materials</i> , 2022, 34, e2105789.	11.1	58
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.	1.3	0
4	Interactions between Liquid Metal Droplets and Bacterial, Fungal, and Mammalian Cells. <i>Advanced Materials Interfaces</i> , 2022, 9, .	1.9	19
5	Applications of liquid metals in nanotechnology. <i>Nanoscale Horizons</i> , 2022, 7, 141-167.	4.1	47
6	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, .	3.3	17
7	Le gallium, un mÃ©tal liquide dâ€™avenir. <i>Pour la science</i> Fr, 2022, NÂ° 532 â€“ fÃ©vrier, 48-54.	0.0	0
8	Tough and stretchable ionogels by in situ phase separation. <i>Nature Materials</i> , 2022, 21, 359-365.	13.3	246
9	Interactions between Liquid Metal Droplets and Bacterial, Fungal, and Mammalian Cells (Adv. Mater.) Tj ETQq1 1 0.784314 rgBT /Ove	1.9	1
10	Synthesis of Liquid Gallium@Reduced Graphene Oxide Coreâ€Shell Nanoparticles with Enhanced Photoacoustic and Photothermal Performance. <i>Journal of the American Chemical Society</i> , 2022, 144, 6779-6790.	6.6	57
11	Self-Folding PCB Kirigami: Rapid Prototyping of 3D Electronics via Laser Cutting and Forming. <i>ACS Applied Materials & Interfaces</i> , 2022, 14, 14774-14782.	4.0	10
12	A bottom-up approach to generate isotropic liquid metal network in polymer-enabled 3D thermal management. <i>Chemical Engineering Journal</i> , 2022, 439, 135674.	6.6	19
13	Skinâ€Inspired Capacitive Stress Sensor with Large Dynamic Range via Bilayer Liquid Metal Elastomers. <i>Advanced Materials Technologies</i> , 2022, 7, .	3.0	23
14	Counterpropagating Gradients of Antibacterial and Antifouling Polymer Brushes. <i>Biomacromolecules</i> , 2022, 23, 424-430.	2.6	21
15	Liquid Metal Interdigitated Capacitive Strain Sensor with Normal Stress Insensitivity. <i>Advanced Intelligent Systems</i> , 2022, 4, .	3.3	28
16	Healable, Recyclable, and Multifunctional Soft Electronics Based on Biopolymer Hydrogel and Patterned Liquid Metal. <i>Small</i> , 2022, 18, e2201643.	5.2	40
17	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
18	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

#	ARTICLE	IF	CITATIONS
19	Stiff or Extensible in Seconds: Light-Induced Corrugations in Thin Polymer Sheets. <i>Advanced Materials Technologies</i> , 2021, 6, .	3.0	4
20	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
21	Liquid metal motor. <i>IScience</i> , 2021, 24, 101911.	1.9	27
22	Energy Harvesting and Storage with Soft and Stretchable Materials. <i>Advanced Materials</i> , 2021, 33, e2004832.	11.1	91
23	Jumping liquid metal droplets controlled electrochemically. <i>Applied Physics Letters</i> , 2021, 118, .	1.5	15
24	Wearable Osmotic-Capillary Patch for Prolonged Sweat Harvesting and Sensing. <i>ACS Applied Materials & Interfaces</i> , 2021, 13, 8071-8081.	4.0	39
25	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
26	Aerosol Spray Deposition of Liquid Metal and Elastomer Coatings for Rapid Processing of Stretchable Electronics. <i>Micromachines</i> , 2021, 12, 146.	1.4	30
27	Flexible thermoelectric generator with liquid metal interconnects and low thermal conductivity silicone filler. <i>Npj Flexible Electronics</i> , 2021, 5, .	5.1	44
28	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
29	Wicking-Polarization-Induced Water Cluster Size Effect on Triboelectric Evaporation Textiles. <i>Advanced Materials</i> , 2021, 33, e2007352.	11.1	53
30	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
31	Liquid metals at room temperature. <i>Physics Today</i> , 2021, 74, 30-36.	0.3	16
32	Energy Harvesting and Storage: Energy Harvesting and Storage with Soft and Stretchable Materials (<i>Adv. Mater.</i> 19/2021). <i>Advanced Materials</i> , 2021, 33, 2170151.	11.1	1
33	Hybrid-Filler Stretchable Conductive Composites: From Fabrication to Application. <i>Small Science</i> , 2021, 1, 2000080.	5.8	80
34	Interfacial Tension Modulation of Liquid Metal via Electrochemical Oxidation. <i>Advanced Intelligent Systems</i> , 2021, 3, 2100024.	3.3	59
35	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.	3.1	13
36	Antipathogenic properties and applications of low-dimensional materials. <i>Nature Communications</i> , 2021, 12, 3897.	5.8	63

#	ARTICLE	IF	CITATIONS
37	Soft and Stretchable Liquid Metal Composites with Shape Memory and Healable Conductivity. ACS Applied Materials & Interfaces, 2021, 13, 28916-28924.	4.0	50
38	Dynamic control of reflective/diffusive optical surfaces on EGaln liquid metal. Optical Materials Express, 2021, 11, 2099.	1.6	10
39	Stretchable and Soft Electroadhesion Using Liquidâ€Metal Subsurface Microelectrodes. Advanced Materials Technologies, 2021, 6, 2100263.	3.0	16
40	Reversible Underwater Adhesion for Soft Robotic Feet by Leveraging Electrochemically Tunable Liquid Metal Interfaces. ACS Applied Materials & Interfaces, 2021, 13, 37904-37914.	4.0	24
41	Gallium Liquid Metal: The Devil's Elixir. Annual Review of Materials Research, 2021, 51, 381-408.	4.3	130
42	A Soft Variableâ€Area Electricalâ€Doubleâ€Layer Energy Harvester. Advanced Materials, 2021, 33, e2103142.	11.1	33
43	Are Contact Angle Measurements Useful for Oxide-Coated Liquid Metals?. Langmuir, 2021, 37, 10914-10923.	1.6	54
44	Liquid metal elastomer with flytrap-inspired pillar structure for stress sensing. Composites Science and Technology, 2021, 216, 109066.	3.8	24
45	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.	2.0	22
46	A Liquid Metal Mediated Metallic Coating for Antimicrobial and Antiviral Fabrics. Advanced Materials, 2021, 33, e2104298.	11.1	84
47	3D Visibleâ€Lightâ€Driven Plasmonic Oxide Frameworks Deviated from Liquid Metal Nanodroplets. Advanced Functional Materials, 2021, 31, 2106397.	7.8	23
48	A Liquid Metal Artificial Muscle. Advanced Materials, 2021, 33, e2103062.	11.1	82
49	Liquid Metal Composites with Enhanced Thermal Conductivity and Stability Using Molecular Thermal Linker. Advanced Materials, 2021, 33, e2103104.	11.1	79
50	Lead-adsorbing ionogel-based encapsulation for impact-resistant, stable, and lead-safe perovskite modules. Science Advances, 2021, 7, eabi8249.	4.7	71
51	A Wearable Patch for Prolonged Sweat Lactate Harvesting and Sensing. , 2021, 2021, 6863-6866.		4
52	Osmotically Enabled Wearable Patch for Sweat Harvesting and Lactate Quantification. Micromachines, 2021, 12, 1513.	1.4	18
53	Polymeric encapsulation of liquids via plasma surface polymerization. Journal of Applied Polymer Science, 2020, 137, 48880.	1.3	0
54	Antibacterial Liquid Metals: Biofilm Treatment <i>via</i> Magnetic Activation. ACS Nano, 2020, 14, 802-817.	7.3	198

#	ARTICLE	IF	CITATIONS
55	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
56	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
57	Lighter and Stronger: Cofabricated Electrodes and Variable Stiffness Elements in Dielectric Actuators. <i>Advanced Intelligent Systems</i> , 2020, 2, 2000069.	3.3	24
58	Making Light Work of Metal Bending: Laser Forming in Rapid Prototyping. <i>Quantum Beam Science</i> , 2020, 4, 44.	0.6	12
59	Liquidâ€“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.	2.4	19
60	Soft, Stretchable, and Pneumatically Triggered Thermochromic Optical Filters with Embedded Phosphorescence. <i>ACS Applied Materials & Interfaces</i> , 2020, 12, 26424-26431.	4.0	13
61	Oxide-mediated mechanisms of gallium foam generation and stabilization during shear mixing in air. <i>Soft Matter</i> , 2020, 16, 5801-5805.	1.2	14
62	Direct write printing of a self-encapsulating liquid metalâ€“silicone composite. <i>Soft Matter</i> , 2020, 16, 6608-6618.	1.2	63
63	Investigation of biasing conditions and energy dissipation in electrochemically controlled capillarity liquid metal electronics. <i>Electronics Letters</i> , 2020, 56, 323-325.	0.5	4
64	Principles of long-term fluids handling in paper-based wearables with capillaryâ€“evaporative transport. <i>Biomicrofluidics</i> , 2020, 14, 034112.	1.2	32
65	Liquid Metal Direct Write and 3D Printing: A Review. <i>Advanced Materials Technologies</i> , 2020, 5, .	3.0	180
66	Directed Assembly of Liquid Metalâ€“Elastomer Conductors for Stretchable and Selfâ€“Healing Electronics. <i>Advanced Materials</i> , 2020, 32, e2001642.	11.1	72
67	Effect of surface interactions on the settlement of particles on a sinusoidally corrugated substrate. <i>RSC Advances</i> , 2020, 10, 11348-11356.	1.7	4
68	A river (of liquid metal) runs through it. <i>National Science Review</i> , 2020, 7, 721-722.	4.6	1
69	Liquid Metal Composites with Anisotropic and Unconventional Piezoconductivity. <i>Matter</i> , 2020, 3, 824-841.	5.0	77
70	EML webinar overview: Liquid metals at the extreme. <i>Extreme Mechanics Letters</i> , 2020, 40, 100863.	2.0	4
71	Ultrasoft Liquid Metal Elastomer Foams with Positive and Negative Piezopermittivity for Tactile Sensing. <i>Advanced Functional Materials</i> , 2020, 30, 2002611.	7.8	154
72	Application of a Laser Cutter to Pattern Wrinkles on Polymer Films. <i>ACS Applied Polymer Materials</i> , 2020, 2, 1848-1855.	2.0	5

#	ARTICLE	IF	CITATIONS
73	Attributes, Fabrication, and Applications of Gallium-Based Liquid Metal Particles. <i>Advanced Science</i> , 2020, 7, 2000192.	5.6	246
74	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
75	Flexible and Stretchable Liquid Metal Electronics. , 2020, , 185-230.		1
76	Self-Folding Metal Origami. <i>Advanced Intelligent Systems</i> , 2019, 1, 1900059.	3.3	20
77	Rapid Open-Air Digital Light 3D Printing of Thermoplastic Polymer. <i>Advanced Materials</i> , 2019, 31, e1903970.	11.1	112
78	Interfacial Rheology of Gallium-Based Liquid Metals. <i>Langmuir</i> , 2019, 35, 11774-11783.	1.6	75
79	Hydrogel/Elastomer Laminates Bonded via Fabric Interphases for Stimuli-Responsive Actuators. <i>Matter</i> , 2019, 1, 674-689.	5.0	74
80	Shear-Driven Direct-Write Printing of Room-Temperature Gallium-Based Liquid Metal Alloys. <i>Advanced Engineering Materials</i> , 2019, 21, 1900400.	1.6	37
81	Liquid Metal Nanoparticles as Initiators for Radical Polymerization of Vinyl Monomers. <i>ACS Macro Letters</i> , 2019, 8, 1522-1527.	2.3	109
82	Planar, Multifunctional 3D Printed Antennas Using Liquid Metal Parasitics. <i>IEEE Access</i> , 2019, 7, 134245-134255.	2.6	35
83	Ultrastretchable Elastic Shape Memory Fibers with Electrical Conductivity. <i>Advanced Science</i> , 2019, 6, 1901579.	5.6	74
84	Materials tactile logic via innervated soft thermochromic elastomers. <i>Nature Communications</i> , 2019, 10, 4187.	5.8	98
85	High Thermal Conductivity Silicone Elastomer Doped with Graphene Nanoplatelets and Eutectic GaIn Liquid Metal Alloy. <i>ECS Journal of Solid State Science and Technology</i> , 2019, 8, P357-P362.	0.9	37
86	Emergence of Liquid Metals in Nanotechnology. <i>ACS Nano</i> , 2019, 13, 7388-7395.	7.3	269
87	Corrosion resistant coating based on thiol-ene polymeric system. <i>Progress in Organic Coatings</i> , 2019, 133, 350-356.	1.9	8
88	Self-healing materials for soft-matter machines and electronics. <i>NPG Asia Materials</i> , 2019, 11, .	3.8	68
89	Phase Separation in Liquid Metal Nanoparticles. <i>Matter</i> , 2019, 1, 192-204.	5.0	110
90	Liquid metal-filled magnetorheological elastomer with positive piezoconductivity. <i>Nature Communications</i> , 2019, 10, 1300.	5.8	267

#	ARTICLE	IF	CITATIONS
91	Shrink Films Get a Grip. ACS Applied Polymer Materials, 2019, 1, 1088-1095.	2.0	10
92	UV plasmonic properties of colloidal liquid-metal eutectic gallium-indium alloy nanoparticles. Scientific Reports, 2019, 9, 5345.	1.6	61
93	Toughening stretchable fibers via serial fracturing of a metallic core. Science Advances, 2019, 5, eaat4600.	4.7	52
94	Room temperature CO2 reduction to solid carbon species on liquid metals featuring atomically thin ceria interfaces. Nature Communications, 2019, 10, 865.	5.8	179
95	Thermo-mechanical transformation of shape memory polymers from initially flat discs to bowls and saddles. Smart Materials and Structures, 2019, 28, 045011.	1.8	21
96	Towards Wearable Electrochemical Lactate Sensing using Osmotic-Capillary Microfluidic Pumping. , 2019, , .		10
97	Optimizing the energy balance to achieve autonomous self-powering for vigilant health and IoT applications. Journal of Physics: Conference Series, 2019, 1407, 012001.	0.3	5
98	Functional Liquid Metal Nanoparticles Produced by Liquid-Based Nebulization. Advanced Materials Technologies, 2019, 4, 1800420.	3.0	78
99	Terahertz waveguide signal processing: passive and active devices. , 2019, , .		0
100	Light-Induced Buckles Localized by Polymeric Inks Printed on Bilayer Films. Small, 2018, 14, e1704460.	5.2	4
101	Liquid metals: fundamentals and applications in chemistry. Chemical Society Reviews, 2018, 47, 4073-4111.	18.7	763
102	Soft electrodes combining hydrogel and liquid metal. Soft Matter, 2018, 14, 3296-3303.	1.2	99
103	Silicones for Stretchable and Durable Soft Devices: Beyond Sylgard-184. ACS Applied Materials & Interfaces, 2018, 10, 11261-11268.	4.0	149
104	Liquid-Metal-Filled 3-D Antenna Array Structure With an Integrated Feeding Network. IEEE Antennas and Wireless Propagation Letters, 2018, 17, 739-742.	2.4	21
105	Reversibly Reconfigurable Liquid Metal Patch Antenna Using A Superhydrophobic Spray-Coating. , 2018, , .		4
106	Sonication-enabled rapid production of stable liquid metal nanoparticles grafted with poly(1-octadecene- <i>i>alt</i>-maleic anhydride) in aqueous solutions. Nanoscale, 2018, 10, 19871-19878.</i>	2.8	98
107	Patterning and Reversible Actuation of Liquid Gallium Alloys by Preventing Adhesion on Rough Surfaces. ACS Applied Materials & Interfaces, 2018, 10, 44686-44695.	4.0	74
108	Superhydrophobic/oleophobic coatings based on a catalyst driven thiol-epoxy-acrylate ternary system. Journal of Applied Polymer Science, 2018, 135, 46710.	1.3	3

#	ARTICLE	IF	CITATIONS
109	Electrically reconfigurable terahertz signal processing devices using liquid metal components. <i>Nature Communications</i> , 2018, 9, 4202.	5.8	35
110	In vitro electrochemical assessment of electrodes for neurostimulation in roach biobots. <i>PLoS ONE</i> , 2018, 13, e0203880.	1.1	7
111	Shape memory polymers for self-folding via compression of thermoplastic sheets. <i>Journal of Applied Polymer Science</i> , 2018, 135, 46889.	1.3	6
112	Patterned Liquid Metal Contacts for Printed Carbon Nanotube Transistors. <i>ACS Nano</i> , 2018, 12, 5482-5488.	7.3	63
113	3D Printed Coaxial Transmission Line Using Low Loss Dielectric and Liquid Metal Conductor. , 2018, , .		11
114	Mechanochromic Stretchable Electronics. <i>ACS Applied Materials & Interfaces</i> , 2018, 10, 29918-29924.	4.0	72
115	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
116	Electrowetting-actuated liquid metal for RF applications. <i>Journal of Micromechanics and Microengineering</i> , 2017, 27, 025010.	1.5	45
117	Hydrogel-enabled osmotic pumping for microfluidics: towards wearable human-device interfaces. <i>Lab on A Chip</i> , 2017, 17, 710-716.	3.1	50
118	Wafer-scale two-dimensional semiconductors from printed oxide skin of liquid metals. <i>Nature Communications</i> , 2017, 8, 14482.	5.8	219
119	Controllable curvature from planar polymer sheets in response to light. <i>Soft Matter</i> , 2017, 13, 2299-2308.	1.2	45
120	Shape-transformable liquid metal nanoparticles in aqueous solution. <i>Chemical Science</i> , 2017, 8, 3832-3837.	3.7	181
121	Sequential self-folding of polymer sheets. <i>Science Advances</i> , 2017, 3, e1602417.	4.7	254
122	Electrowetting without external voltage using paint-on electrodes. <i>Lab on A Chip</i> , 2017, 17, 1069-1075.	3.1	15
123	Liquid metal enabled microfluidics. <i>Lab on A Chip</i> , 2017, 17, 974-993.	3.1	354
124	Stretchable and Soft Electronics using Liquid Metals. <i>Advanced Materials</i> , 2017, 29, 1606425.	11.1	1,222
125	Flexible thermoelectric generator using bulk legs and liquid metal interconnects for wearable electronics. <i>Applied Energy</i> , 2017, 202, 736-745.	5.1	260
126	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.	2.4	21

#	ARTICLE	IF	CITATIONS
127	Sensors: Stretchable Capacitive Sensors of Torsion, Strain, and Touch Using Double Helix Liquid Metal Fibers (Adv. Funct. Mater. 20/2017). Advanced Functional Materials, 2017, 27, .	7.8	3
128	Stretchable Capacitive Sensors of Torsion, Strain, and Touch Using Double Helix Liquid Metal Fibers. Advanced Functional Materials, 2017, 27, 1605630.	7.8	257
129	Enhanced Endosomal Escape by Light-Fueled Liquid-Metal Transformer. Nano Letters, 2017, 17, 2138-2145.	4.5	179
130	Oxidation-Mediated Fingering in Liquid Metals. Physical Review Letters, 2017, 119, 174502.	2.9	63
131	Field-€Controlled Electrical Switch with Liquid Metal. Advanced Science, 2017, 4, 1700169.	5.6	107
132	Vacuum-filling of liquid metals for 3D printed RF antennas. Additive Manufacturing, 2017, 18, 221-227.	1.7	39
133	Vacuum filling of complex microchannels with liquid metal. Lab on A Chip, 2017, 17, 3043-3050.	3.1	169
134	Stretchable bioelectronics-€Current and future. MRS Bulletin, 2017, 42, 960-967.	1.7	14
135	Effects of thermo-mechanical behavior and hinge geometry on folding response of shape memory polymer sheets. Journal of Applied Physics, 2017, 122, .	1.1	11
136	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.	2.2	43
137	Rapid prototyping of low loss 3D printed waveguides for millimeter-wave applications. , 2017, , .		18
138	Liquid metals for active terahertz waveguides. , 2017, , .		0
139	Active THz Waveguides Enabled by Liquid Metal Actuation. , 2017, , .		0
140	Ionoprinted Multi-Responsive Hydrogel Actuators. Micromachines, 2016, 7, 98.	1.4	46
141	Bending of Responsive Hydrogel Sheets Guided by Field-€Assembled Microparticle Endoskeleton Structures. Small, 2016, 12, 2283-2290.	5.2	62
142	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, .	1.5	42
143	Amidation of Polyesters Is Slow in Nonaqueous Solvents: Efficient Amidation of Poly(ethylene) Tj ETQq1 1 0.784314 rgBT /Overlock 107 ACS Applied Materials & Interfaces, 2016, 8, 35641-35649.	4.0	27
144	Liquid metal actuation by electrical control of interfacial tension. Applied Physics Reviews, 2016, 3, 031103.	5.5	129

#	ARTICLE	IF	CITATIONS
145	A simple electroless plating solution for 3D printed microwave components. , 2016, , .		33
146	Liquid Metals for Soft and Stretchable Electronics. Microsystems and Nanosystems, 2016, , 3-30.	0.1	15
147	Patterning via self-organization and self-folding: Beyond conventional lithography. MRS Bulletin, 2016, 41, 93-96.	1.7	12
148	Drawing liquid metal wires at room temperature. Extreme Mechanics Letters, 2016, 7, 55-63.	2.0	31
149	Using liquid metal alloy (EGaln) to electrochemically enhance SS stimulation electrodes for biobotic applications. , 2016, 2016, 2141-2144.		2
150	Localized Instabilities of Liquid Metal Films via In-plane Recapillarity. Advanced Materials Interfaces, 2016, 3, 1600546.	1.9	23
151	A Method to Manipulate Surface Tension of a Liquid Metal via Surface Oxidation and Reduction. Journal of Visualized Experiments, 2016, , e53567.	0.2	6
152	Recent applications of liquid metals featuring nanoscale surface oxides. Proceedings of SPIE, 2016, , .	0.8	1
153	Correction to "Self-Running Liquid Metal Drops that Delaminate Metal Films at Record Velocities" ACS Applied Materials & Interfaces, 2016, 8, 15855-15855.	4.0	0
154	Liquid Metal Microdroplets Formed Dynamically with Electrical Control of Size and Rate. Advanced Materials, 2016, 28, 604-609.	11.1	116
155	Self-Folding of Thick Polymer Sheets Using Gradients of Heat. Journal of Mechanisms and Robotics, 2016, 8, .	1.5	21
156	3D printing of liquid metals as fugitive inks for fabrication of 3D microfluidic channels. Lab on A Chip, 2016, 16, 1812-1820.	3.1	174
157	Shaped after print. Nature Materials, 2016, 15, 379-380.	13.3	19
158	Selective and directional actuation of elastomer films using chained magnetic nanoparticles. Nanoscale, 2016, 8, 1309-1313.	2.8	68
159	"2D or not 2D" Shape-programming polymer sheets. Progress in Polymer Science, 2016, 52, 79-106.	11.8	292
160	Microfluidics: Recapillarity: Electrochemically Controlled Capillary Withdrawal of a Liquid Metal Alloy from Microchannels (Adv. Funct. Mater. 5/2015). Advanced Functional Materials, 2015, 25, 654-654.	7.8	3
161	Buckled Topography to Enhance Light Absorption in Thin Film Organic Photovoltaics Comprising CuPc/C ₆₀ Bilayer Laminates. Zeitschrift Fur Physikalische Chemie, 2015, 229, 1251-1261.	1.4	3
162	Pump-free feedback control of a frequency reconfigurable liquid metal monopole. , 2015, , .		11

#	ARTICLE	IF	CITATIONS
163	Handwritten, Soft Circuit Boards and Antennas Using Liquid Metal Nanoparticles. <i>Small</i> , 2015, 11, 6397-6403.	5.2	234
164	A reconfigurable liquid metal antenna driven by electrochemically controlled capillarity. <i>Journal of Applied Physics</i> , 2015, 117, .	1.1	159
165	Transformable liquid-metal nanomedicine. <i>Nature Communications</i> , 2015, 6, 10066.	5.8	466
166	Robust Pressure-Actuated Liquid Metal Devices Showing Reconfigurable Electromagnetic Effects at GHz Frequencies. <i>IEEE Transactions on Microwave Theory and Techniques</i> , 2015, 63, 3122-3130.	2.9	9
167	Recapillarity: Electrochemically Controlled Capillary Withdrawal of a Liquid Metal Alloy from Microchannels. <i>Advanced Functional Materials</i> , 2015, 25, 671-678.	7.8	112
168	Liquid metals as ultra-stretchable, soft, and shape reconfigurable conductors. <i>Proceedings of SPIE</i> , 2015, , .	0.8	6
169	Steering liquid metal flow in microchannels using low voltages. <i>Lab on A Chip</i> , 2015, 15, 3905-3911.	3.1	64
170	Methods to pattern liquid metals. <i>Journal of Materials Chemistry C</i> , 2015, 3, 3834-3841.	2.7	275
171	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
172	Self-folding of polymer sheets using microwaves and graphene ink. <i>RSC Advances</i> , 2015, 5, 89254-89261.	1.7	40
173	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
174	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
175	Production of Liquid Metal Spheres by Molding. <i>Metals</i> , 2014, 4, 465-476.	1.0	55
176	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
177	Robust pressure-actuated liquid metal devices showing reconfigurable electromagnetic effects at GHz frequencies. , 2014, , .		2
178	Microfluidic coaxial transmission line and phase shifter. <i>Microwave and Optical Technology Letters</i> , 2014, 56, 1459-1462.	0.9	12
179	3-D printing of liquid metals for stretchable and flexible conductors. <i>Proceedings of SPIE</i> , 2014, , .	0.8	4
180	On the Design of Microfluidic Implant Coil for Flexible Telemetry System. <i>IEEE Sensors Journal</i> , 2014, 14, 1074-1080.	2.4	85

#	ARTICLE	IF	CITATIONS
181	Emerging Applications of Liquid Metals Featuring Surface Oxides. ACS Applied Materials & Interfaces, 2014, 6, 18369-18379.	4.0	522
182	Self-Folding Origami Microstrip Antennas. IEEE Transactions on Antennas and Propagation, 2014, 62, 5416-5419.	3.1	106
183	Electro-actuated hydrogel walkers with dual responsive legs. Soft Matter, 2014, 10, 1337-1348.	1.2	301
184	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.	3.3	309
185	Three-dimensional folding of pre-strained polymer sheets via absorption of laser light. Journal of Applied Physics, 2014, 115, .	1.1	58
186	In-plane deformation of shape memory polymer sheets programmed using only scissors. Polymer, 2014, 55, 5948-5952.	1.8	9
187	Magneto-responsive hybrid materials based on cellulose nanocrystals. Cellulose, 2014, 21, 2557-2566.	2.4	61
188	Simple geometric model to describe self-folding of polymer sheets. Physical Review E, 2014, 89, 042601.	0.8	30
189	Reversible patterning and actuation of hydrogels by electrically assisted ionoprinting. Nature Communications, 2013, 4, 2257.	5.8	380
190	3D Printing of Free Standing Liquid Metal Microstructures. Advanced Materials, 2013, 25, 5081-5085.	11.1	749
191	Ultrastretchable Fibers with Metallic Conductivity Using a Liquid Metal Alloy Core. Advanced Functional Materials, 2013, 23, 2308-2314.	7.8	501
192	Thiol-containing polymeric embedding materials for nanoskiving. Journal of Materials Chemistry C, 2013, 1, 121-130.	2.7	18
193	Surface wrinkling by chemical modification of poly(dimethylsiloxane)-based networks during sputtering. Soft Matter, 2013, 9, 7797.	1.2	32
194	Ultrastretchable, cyclable and recyclable 1- and 2-dimensional conductors based on physically cross-linked thermoplastic elastomer gels. Soft Matter, 2013, 9, 7695.	1.2	84
195	Microfluidic channels fabricated from poly(vinylmethylsiloxane) networks that resist swelling by organic solvents. Lab on A Chip, 2013, 13, 4317.	3.1	6
196	Strain-controlled diffraction of light from stretchable liquid metal micro-components. Sensors and Actuators A: Physical, 2013, 193, 246-250.	2.0	30
197	Self-Healing Stretchable Wires for Reconfigurable Circuit Wiring and 3D Microfluidics. Advanced Materials, 2013, 25, 1589-1592.	11.1	385
198	Integration of pre-aligned liquid metal electrodes for neural stimulation within a user-friendly microfluidic platform. Lab on A Chip, 2013, 13, 522-526.	3.1	78

#	ARTICLE	IF	CITATIONS
199	Reconfigurable liquid metal circuits by Laplace pressure shaping. Applied Physics Letters, 2012, 101, .	1.5	88
200	Electromechanical instabilities of thermoplastics: Theory and in situ observation. Applied Physics Letters, 2012, 101, 141911.	1.5	16
201	A study of the production and reversible stability of EGaln liquid metal microspheres using flow focusing. Lab on A Chip, 2012, 12, 3961.	3.1	124
202	Self-folding of polymer sheets using local light absorption. Soft Matter, 2012, 8, 1764-1769.	1.2	466
203	A Pressure Responsive Fluidic Microstrip Open Stub Resonator Using a Liquid Metal Alloy. IEEE Microwave and Wireless Components Letters, 2012, 22, 577-579.	2.0	59
204	Design and demonstration of a novel micro-Coulter counter utilizing liquid metal electrodes. Journal of Micromechanics and Microengineering, 2012, 22, 115012.	1.5	27
205	Flexible Liquid Metal Alloy (EGaln) Microstrip Patch Antenna. IEEE Transactions on Antennas and Propagation, 2012, 60, 2151-2156.	3.1	340
206	Advances in bioelectromagnetics for implantable systems. , 2012, , .		0
207	Ionic Current Rectification in Soft Matter Diodes with Liquid Metal Electrodes. Advanced Functional Materials, 2012, 22, 625-631.	7.8	113
208	Inherently aligned microfluidic electrodes composed of liquid metal. Lab on A Chip, 2011, 11, 905.	3.1	216
209	Towards All-Soft Matter Circuits: Prototypes of Quasi-Liquid Devices with Memristor Characteristics. Advanced Materials, 2011, 23, 3559-3564.	11.1	189
210	A frequency shifting liquid metal antenna with pressure responsiveness. Applied Physics Letters, 2011, 99, .	1.5	106
211	Foldable Printed Circuit Boards on Paper Substrates. Advanced Functional Materials, 2010, 20, 28-35.	7.8	630
212	Transistors Formed from a Single Lithography Step Using Information Encoded in Topography. Small, 2010, 6, 2050-2057.	5.2	7
213	Subnanometer Replica Molding of Molecular Steps on Ionic Crystals. Nano Letters, 2010, 10, 4140-4145.	4.5	23
214	Cofabrication: A Strategy for Building Multicomponent Microsystems. Accounts of Chemical Research, 2010, 43, 518-528.	7.6	53
215	Charge Transport and Rectification in Arrays of SAM-Based Tunneling Junctions. Nano Letters, 2010, 10, 3611-3619.	4.5	213
216	Thread as a Matrix for Biomedical Assays. ACS Applied Materials & Interfaces, 2010, 2, 1722-1728.	4.0	224

#	ARTICLE	IF	CITATIONS
217	Reversibly Deformable and Mechanically Tunable Fluidic Antennas. <i>Advanced Functional Materials</i> , 2009, 19, 3632-3637.	7.8	496
218	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
219	Controlling the Kinetics of Contact Electrification with Patterned Surfaces. <i>Journal of the American Chemical Society</i> , 2009, 131, 8746-8747.	6.6	37
220	A Technique to Transfer Metallic Nanoscale Patterns to Small and Non-Planar Surfaces. <i>ACS Nano</i> , 2009, 3, 59-65.	7.3	132
221	Viscoelastic properties of oxide-coated liquid metals. <i>Journal of Rheology</i> , 2009, 53, 1305-1326.	1.3	139
222	Functionalized Fiber Optic Devices for Surface Enhanced Raman Scattering Detection and Optical Trapping. , 2009, , .		0
223	High-aspect ratio polymeric pillar arrays formed via electrohydrodynamic patterning. <i>Journal of Materials Science</i> , 2008, 43, 117-122.	1.7	26
224	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
225	Light-Powered Electrical Switch Based on Cargo-Lifting Azobenzene Monolayers. <i>Angewandte Chemie - International Edition</i> , 2008, 47, 3407-3409.	7.2	276
226	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
227	Fabrication of Arrays of Metal and Metal Oxide Nanotubes by Shadow Evaporation. <i>ACS Nano</i> , 2008, 2, 800-808.	7.3	82
228	Nanoskiving: A New Method To Produce Arrays of Nanostructures. <i>Accounts of Chemical Research</i> , 2008, 41, 1566-1577.	7.6	135
229	Fabrication of Conjugated Polymer Nanowires by Edge Lithography. <i>Nano Letters</i> , 2008, 8, 2100-2105.	4.5	58
230	Electrically Addressable Parallel Nanowires with 30 nm Spacing from Micromolding and Nanoskiving. <i>Nano Letters</i> , 2008, 8, 4568-4573.	4.5	21
231	Modeling of Self-Assembly Dynamics of Photolithographically Patterned MUFFINS Biosensor Arrays. <i>Materials Research Society Symposia Proceedings</i> , 2007, 1002, 1.	0.1	1
232	Photocurable Pillar Arrays Formed via Electrohydrodynamic Instabilities. <i>Chemistry of Materials</i> , 2006, 18, 2043-2049.	3.2	51
233	Novel 3-D Structures in Polymer Films by Coupling External and Internal Fields. <i>Langmuir</i> , 2006, 22, 4315-4318.	1.6	51
234	An Automated Statistical Process Control Study of Inline Mixing Using Spectrophotometric Detection. <i>Journal of Chemical Education</i> , 2006, 83, 110.	1.1	6

#	ARTICLE	IF	CITATIONS
235	Photocurable pillar arrays formed via AC- and ultrasound-induced electrohydrodynamic instabilities. , 2006, 6151, 936.		1
236	Planarization for reverse-tone step and flash imprint lithography. , 2006, 6151, 688.		6
237	Kinetic parameters for step and flash imprint lithography photopolymerization. AICHE Journal, 2006, 52, 777-784.	1.8	34
238	Direct imprinting of dielectric materials for dual damascene processing. , 2005, 5751, 210.		25
239	Study of the kinetics of step and flash imprint lithography photopolymerization. AICHE Journal, 2005, 51, 2547-2555.	1.8	36
240	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
241	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
242	Electric field and dewetting induced hierarchical structure formation in polymer/polymer/air trilayers. Chaos, 2005, 15, 047506.	1.0	54
243	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
244	Mesoscale modeling for SFIL simulating polymerization kinetics and densification. , 2004, , .		20
245	Preparation of porous polymer membranes using nano- or micro-pillar arrays as templates. Polymer, 2004, 45, 8469-8474.	1.8	38
246	Step and Flash Imprint Lithography Modeling and Process Development. Journal of Photopolymer Science and Technology = [Fotoporima Konwakai Shi], 2004, 17, 417-419.	0.1	13
247	Advances in Step and Flash imprint lithography. , 2003, , .		23
248	Enhancement of pressure-sensitive adhesive by CO ₂ laser treatment. Advanced Engineering Materials, 0, , .	1.6	0