

Cheng Luo

List of Publications by Year in descending order

Source: <https://exaly.com/author-pdf/6626531/publications.pdf>

Version: 2024-02-01

57
papers

1,048
citations

394421

19
h-index

454955

30
g-index

57
all docs

57
docs citations

57
times ranked

1145
citing authors

#	ARTICLE	IF	CITATIONS
1	In-situ observation of the extrusion processes of Acrylonitrile Butadiene Styrene and Polylactic Acid for material extrusion additive manufacturing. <i>Additive Manufacturing</i> , 2022, 49, 102507.	3.0	8
2	Bonding widths of Deposited Polymer Strands in Additive Manufacturing. <i>Materials</i> , 2021, 14, 871.	2.9	7
3	Upper bound of feed rates in thermoplastic material extrusion additive manufacturing. <i>Additive Manufacturing</i> , 2020, 32, 101019.	3.0	20
4	Effects of feed rates on temperature profiles and feed forces in material extrusion additive manufacturing. <i>Additive Manufacturing</i> , 2020, 35, 101361.	3.0	10
5	Modeling the temperature profile of an extrudate in material extrusion additive manufacturing. <i>Materials Letters</i> , 2020, 270, 127742.	2.6	8
6	Determination of constant viscosity for a power-law melt flow inside a circular tube. <i>Chemical Engineering Science</i> , 2019, 195, 239-241.	3.8	4
7	Self-Rotation-Induced Propulsion of a Leidenfrost Drop on a Ratchet. <i>Langmuir</i> , 2017, 33, 6307-6313.	3.5	31
8	Conditions for Barrel and Clam-Shell Liquid Drops to Move on Bio-inspired Conical Wires. <i>Scientific Reports</i> , 2017, 7, 9717.	3.3	8
9	Self-propulsion of Leidenfrost Drops between Non-Parallel Structures. <i>Scientific Reports</i> , 2017, 7, 12018.	3.3	15
10	Enhancement of fog-collection efficiency of a Raschel mesh using surface coatings and local geometric changes. <i>Colloids and Surfaces A: Physicochemical and Engineering Aspects</i> , 2016, 508, 218-229.	4.7	74
11	Liquid Drop Runs Upward between Two Nonparallel Plates. <i>Langmuir</i> , 2015, 31, 2743-2748.	3.5	21
12	Theoretical Exploration of Barrel-Shaped Drops on Cactus Spines. <i>Langmuir</i> , 2015, 31, 11809-11813.	3.5	27
13	Flexible PDMS microtubes for examining local hydrophobicity. <i>Microsystem Technologies</i> , 2015, 21, 477-485.	2.0	2
14	Growth of Ultra-Long ZnO Microtubes Using a Modified Vapor-Solid Setup. <i>Micromachines</i> , 2014, 5, 1069-1081.	2.9	4
15	Creation of Superwetting Surfaces with Roughness Structures. <i>Langmuir</i> , 2014, 30, 14469-14475.	3.5	3
16	Existence and stability of an intermediate wetting state on circular micropillars. <i>Microfluidics and Nanofluidics</i> , 2014, 17, 539-548.	2.2	12
17	Controllable strain recovery of <i>shape memory</i> polystyrene to achieve superhydrophobicity with tunable adhesion. <i>Journal of Micromechanics and Microengineering</i> , 2014, 24, 115006.	2.6	30
18	Branched ZnO Wire Structures for Water Collection Inspired by Cacti. <i>ACS Applied Materials & Interfaces</i> , 2014, 6, 8032-8041.	8.0	102

#	ARTICLE	IF	CITATIONS
19	Separation of Oil from a Water/Oil Mixed Drop Using Two Nonparallel Plates. <i>Langmuir</i> , 2014, 30, 10002-10010.	3.5	30
20	Bioinspired Plate-Based Fog Collectors. <i>ACS Applied Materials & Interfaces</i> , 2014, 6, 16257-16266.	8.0	35
21	Behavior of a Liquid Drop between Two Nonparallel Plates. <i>Langmuir</i> , 2014, 30, 8373-8380.	3.5	60
22	Existence and Role of Large Micropillars on the Leaf Surfaces of <i>The President</i> Lotus. <i>Langmuir</i> , 2013, 29, 7715-7725.	3.5	22
23	Wetting States on Circular Micropillars with Convex Sidewalls after Liquids Contact Groove Base. <i>Langmuir</i> , 2013, 29, 15065-15075.	3.5	8
24	Fabrication of Super-Hydrophobic Microchannels via Strain-Recovery Deformations of Polystyrene and Oxygen Reactive Ion Etch. <i>Materials</i> , 2013, 6, 3610-3623.	2.9	16
25	Propulsion of a microsubmarine using a thermally oscillatory approach. <i>Journal of Micromechanics and Microengineering</i> , 2013, 23, 105011.	2.6	4
26	Fabrication and testing of a self-propelled, miniaturized PDMS flotilla. <i>Microsystem Technologies</i> , 2012, 18, 1431-1444.	2.0	3
27	Generation of ZnO nanowires with varied densities and lengths by tilting a substrate. <i>Microsystem Technologies</i> , 2012, 18, 1497-1506.	2.0	6
28	Development of surface tension-driven microboats and microflotillas. <i>Microsystem Technologies</i> , 2012, 18, 1525-1541.	2.0	8
29	Angle Inequality for Judging the Transition from Cassie-Baxter to Wenzel States When a Water Drop Contacts Bottoms of Grooves between Micropillars. <i>Langmuir</i> , 2012, 28, 13636-13642.	3.5	19
30	Increase buoyancy of a solid fragment using micropillars. <i>Sensors and Actuators A: Physical</i> , 2012, 182, 136-145.	4.1	5
31	Generation of sidewall patterns in microchannels via strain-recovery deformations of polystyrene. <i>Sensors and Actuators A: Physical</i> , 2012, 188, 374-382.	4.1	7
32	Control of the radial motion of a self-propelled microboat through a side rudder. <i>Sensors and Actuators A: Physical</i> , 2012, 188, 359-366.	4.1	10
33	A Stable Intermediate Wetting State after a Water Drop Contacts the Bottom of a Microchannel or Is Placed on a Single Corner. <i>Langmuir</i> , 2012, 28, 9554-9561.	3.5	36
34	Development of a self-propelled microflotilla. <i>Microsystem Technologies</i> , 2011, 17, 777-786.	2.0	8
35	Two simple approaches to fabricate Au microlines on the outer surfaces of micropipettes. <i>Microsystem Technologies</i> , 2011, 17, 1115-1121.	2.0	1
36	Driving mechanisms of CM-scaled PDMS boats of respective close and open reservoirs. <i>Microsystem Technologies</i> , 2011, 17, 875-889.	2.0	8

#	ARTICLE	IF	CITATIONS
37	Transition from Cassie-Baxter to Wenzel States on microline-formed PDMS surfaces induced by evaporation or pressing of water droplets. <i>Microfluidics and Nanofluidics</i> , 2011, 10, 831-842.	2.2	51
38	Fabrication of micropatterns on channel sidewalls using strain-recovery property of a shape-memory polymer. , 2011, , .		1
39	Generation of Au micropatterns on two sidewalls of a Si channel through a PDMS shadow mask. <i>Journal of Micromechanics and Microengineering</i> , 2011, 21, 067005.	2.6	6
40	Dramatic squat and trim phenomena of mm-scaled SU-8 boats induced by Marangoni effect. <i>Microfluidics and Nanofluidics</i> , 2010, 9, 573-577.	2.2	15
41	Fabrication of Au micropatterns on vertical Si sidewalls using flexible PDMS shadow masks. <i>Journal of Micromechanics and Microengineering</i> , 2010, 20, 127001.	2.6	8
42	Fabrication of micropatterns on the sidewalls of a thermal shape memory polystyrene block. <i>Journal of Micromechanics and Microengineering</i> , 2010, 20, 095025.	2.6	25
43	Fabrication of super-hydrophobic channels. <i>Journal of Micromechanics and Microengineering</i> , 2010, 20, 025029.	2.6	24
44	Generation of micropatterns of conducting polymers and aluminum using an intermediate-layer lithography approach and some applications. <i>Microsystem Technologies</i> , 2009, 15, 1605-1617.	2.0	5
45	Multiple conducting polymer microwire sensors. <i>Microsystem Technologies</i> , 2009, 15, 1737-1745.	2.0	6
46	Effects of dimensions on the sensitivity of a conducting polymer microwire sensor. <i>Microelectronics Journal</i> , 2009, 40, 912-920.	2.0	15
47	Fabrication of Au sidewall micropatterns using Si-reinforced PDMS molds. <i>Sensors and Actuators A: Physical</i> , 2009, 152, 96-103.	4.1	12
48	Propulsion of microboats using isopropyl alcohol as a propellant. <i>Journal of Micromechanics and Microengineering</i> , 2008, 18, 067002.	2.6	32
49	Intermediate-layer lithography method for producing metal micropatterns. <i>Journal of Vacuum Science & Technology B</i> , 2007, 25, 677.	1.3	5
50	An intermediate-layer lithography method for generating multiple microstructures made of different conducting polymers. <i>Microsystem Technologies</i> , 2007, 13, 1175-1184.	2.0	10
51	Electronic nose for detecting multiple targets. , 2006, 6223, 56.		3
52	Fabrication and application of silicon-reinforced PDMS masters. <i>Microelectronics Journal</i> , 2006, 37, 1036-1046.	2.0	21
53	A novel approach to fabricate a PPy/p-type Si heterojunction. <i>Solid-State Electronics</i> , 2006, 50, 1687-1691.	1.4	20
54	Thermal ablation of PMMA for water release using a microheater. <i>Journal of Micromechanics and Microengineering</i> , 2006, 16, 580-588.	2.6	17

#	ARTICLE	IF	CITATIONS
55	Innovative approach for replicating micropatterns in a conducting polymer. Journal of Vacuum Science & Technology B, 2006, 24, L19.	1.3	9
56	Reinforcement of PDMS masters using SU-8 truss structures. Journal of Micromechanics and Microengineering, 2005, 15, 1303-1309.	2.6	39
57	Releasing SU-8 structures using polystyrene as a sacrificial material. Sensors and Actuators A: Physical, 2004, 114, 123-128.	4.1	52