

Lauren D Zarzar

List of Publications by Year in descending order

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Version: 2024-02-01

37
papers

2,055
citations

430874

18
h-index

377865

34
g-index

49
all docs

49
docs citations

49
times ranked

2769
citing authors

#	ARTICLE	IF	CITATIONS
1	Chemical design of self-propelled Janus droplets. <i>Matter</i> , 2022, 5, 616-633.	10.0	32
2	Direct Laser Writing of Graphitic Carbon from Liquid Precursors. <i>Chemistry of Materials</i> , 2022, 34, 4602-4612.	6.7	7
3	Direct Laser Writing of Microscale Metal Oxide Gas Sensors from Liquid Precursors. <i>ACS Applied Materials & Interfaces</i> , 2022, 14, 28163-28173.	8.0	10
4	Chemically Tuning Attractive and Repulsive Interactions between Solubilizing Oil Droplets. <i>Angewandte Chemie - International Edition</i> , 2022, 61, .	13.8	14
5	Chemically Tuning Attractive and Repulsive Interactions between Solubilizing Oil Droplets. <i>Angewandte Chemie</i> , 2022, 134, .	2.0	1
6	Interfacially-adsorbed particles enhance the self-propulsion of oil droplets in aqueous surfactant. <i>Soft Matter</i> , 2021, 17, 6742-6750.	2.7	19
7	Single-Step Direct Laser Writing of Multimetal Oxygen Evolution Catalysts from Liquid Precursors. <i>ACS Nano</i> , 2021, 15, 9796-9807.	14.6	11
8	The Endless and Turbulent Frontier of Academic Entrepreneurship. <i>ACS Nano</i> , 2021, 15, 16947-16952.	14.6	1
9	35 challenges in materials science being tackled by PIs under 35(ish) in 2021. <i>Matter</i> , 2021, 4, 3804-3810.	10.0	1
10	Polyelectrolyte hydrogel capsules as stabilizers for reconfigurable complex emulsions. <i>Polymer Chemistry</i> , 2020, 11, 281-286.	3.9	6
11	Green synthesis of Zr-based metal-organic framework hydrogel composites and their enhanced adsorptive properties. <i>Inorganic Chemistry Frontiers</i> , 2020, 7, 4813-4821.	6.0	18
12	Predator-prey interactions between droplets driven by non-reciprocal oil exchange. <i>Nature Chemistry</i> , 2020, 12, 1136-1142.	13.6	108
13	Reconfigurable complex emulsions: Design, properties, and applications. <i>Chemical Physics Reviews</i> , 2020, 1, 011301.	5.7	34
14	Tunable and Responsive Structural Color from Polymeric Microstructured Surfaces Enabled by Interference of Totally Internally Reflected Light. , 2020, 2, 754-763.		26
15	Particle Stabilization of Oil-Fluorocarbon Interfaces and Effects on Multiphase Oil-in-Water Complex Emulsion Morphology and Reconfigurability. <i>Langmuir</i> , 2020, 36, 7083-7090.	3.5	11
16	Bi-phase emulsion droplets as dynamic fluid optical systems. <i>EPJ Web of Conferences</i> , 2019, 215, 13003.	0.3	0
17	Direct Laser Writing from Aqueous Precursors for Nano to Microscale Topographical Control, Integration, and Synthesis of Nanocrystalline Mixed Metal Oxides. <i>ACS Applied Nano Materials</i> , 2019, 2, 2581-2586.	5.0	17
18	Colouration by total internal reflection and interference at microscale concave interfaces. <i>Nature</i> , 2019, 566, 523-527.	27.8	151

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19	Structural Color due to Interference of Totally Internally Reflected Light in Bi-Phase Droplets. , 2019, , ,		0
20	Interfacial Polymerization on Dynamic Complex Colloids: Creating Stabilized Janus Droplets. ACS Applied Materials & Interfaces, 2017, 9, 7804-7811.	8.0	14
21	Reconfigurable and responsive droplet-based compound micro-lenses. Nature Communications, 2017, 8, 14673.	12.8	119
22	Optical visualization and quantification of enzyme activity using dynamic droplet lenses. Proceedings of the National Academy of Sciences of the United States of America, 2017, 114, 3821-3825.	7.1	48
23	Photothermally triggered actuation of hybrid materials as a new platform for in vitro cell manipulation. Nature Communications, 2017, 8, 14700.	12.8	88
24	Using Laser-Induced Thermal Voxels to Pattern Diverse Materials at the Solid-Liquid Interface. ACS Applied Materials & Interfaces, 2016, 8, 21134-21139.	8.0	25
25	Dynamically reconfigurable complex emulsions via tunable interfacial tensions. Nature, 2015, 518, 520-524.	27.8	325
26	Developmentally-Inspired Shrink-Wrap Polymers for Mechanical Induction of Tissue Differentiation. Advanced Materials, 2014, 26, 3253-3257.	21.0	25
27	Stimuli-Responsive Chemomechanical Actuation: A Hybrid Materials Approach. Accounts of Chemical Research, 2014, 47, 530-539.	15.6	81
28	Chemo-Mechanically Regulated Oscillation of an Enzymatic Reaction. Chemistry of Materials, 2013, 25, 521-523.	6.7	17
29	Multiphoton Lithography of Nanocrystalline Platinum and Palladium for Site-Specific Catalysis in 3D Microenvironments. Journal of the American Chemical Society, 2012, 134, 4007-4010.	13.7	54
30	Multifunctional actuation systems responding to chemical gradients. Soft Matter, 2012, 8, 8289.	2.7	12
31	Structural Transformation by Electrodeposition on Patterned Substrates (STEPS): A New Versatile Nanofabrication Method. Nano Letters, 2012, 12, 527-533.	9.1	55
32	Synthetic homeostatic materials with chemo-mechano-chemical self-regulation. Nature, 2012, 487, 214-218.	27.8	418
33	Hydrogel-actuated integrated responsive systems (HAIRS): Moving towards adaptive materials. Current Opinion in Solid State and Materials Science, 2011, 15, 236-245.	11.5	66
34	Bio-Inspired Design of Submerged Hydrogel-Actuated Polymer Microstructures Operating in Response to pH. Advanced Materials, 2011, 23, 1442-1446.	21.0	149
35	Direct Writing and Actuation of Three-Dimensionally Patterned Hydrogel Pads on Micropillar Supports. Angewandte Chemie - International Edition, 2011, 50, 9356-9360.	13.8	40
36	Environmentally responsive active optics based on hydrogel-actuated deformable mirror arrays. , 2011, , ,		6

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37	Microbristle in gels: Toward all-polymer reconfigurable hybrid surfaces. <i>Soft Matter</i> , 2010, 6, 750.	2.7	32