

Jiachen Zhang

List of Publications by Year in descending order

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15
papers

1,120
citations

1040056

9
h-index

1281871

11
g-index

15
all docs

15
docs citations

15
times ranked

1005
citing authors

#	ARTICLE	IF	CITATIONS
1	Millimeter-scale flexible robots with programmable three-dimensional magnetization and motions. <i>Science Robotics</i> , 2019, 4, .	17.6	443
2	Voxelated three-dimensional miniature magnetic soft machines via multimaterial heterogeneous assembly. <i>Science Robotics</i> , 2021, 6, .	17.6	133
3	Untethered small-scale magnetic soft robot with programmable magnetization and integrated multifunctional modules. <i>Science Advances</i> , 2022, 8, .	10.3	105
4	Liquid Crystal Elastomer-Based Magnetic Composite Films for Reconfigurable Shape-Morphing Soft Miniature Machines. <i>Advanced Materials</i> , 2021, 33, e2006191.	21.0	101
5	Reliable Grasping of Three-Dimensional Untethered Mobile Magnetic Microgripper for Autonomous Pick-and-Place. <i>IEEE Robotics and Automation Letters</i> , 2017, 2, 835-840.	5.1	88
6	Untethered Miniature Soft Robots: Modeling and Design of a Millimeter-Scale Swimming Magnetic Sheet. <i>Soft Robotics</i> , 2018, 5, 761-776.	8.0	65
7	Wirelessly Actuated Thermo- and Magneto-Responsive Soft Bimorph Materials with Programmable Shape-Morphing. <i>Advanced Materials</i> , 2021, 33, e2100336.	21.0	60
8	Shape-programmable liquid crystal elastomer structures with arbitrary three-dimensional director fields and geometries. <i>Nature Communications</i> , 2021, 12, 5936.	12.8	42
9	Tetherless mobile micrograsping using a magnetic elastic composite material. <i>Smart Materials and Structures</i> , 2016, 25, 11LT03.	3.5	31
10	Parallel Pick and Place Using Two Independent Untethered Mobile Magnetic Microgrippers. , 2018, , .		21
11	Millimeter-scale magnetic swimmers using elastomeric undulations. , 2015, , .		10
12	A generic label-free microfluidic microobject sorter using a magnetic elastic diverter. <i>Biomedical Microdevices</i> , 2017, 19, 43.	2.8	8
13	Independent control of two millimeter-scale soft-bodied magnetic robotic swimmers. , 2016, , .		7
14	Evolving from Laboratory Toys towards Life-Savers: Small-Scale Magnetic Robotic Systems with Medical Imaging Modalities. <i>Micromachines</i> , 2021, 12, 1310.	2.9	5
15	Bidirectional Dynamic Reconfiguration of Discrete-Event Systems. , 2020, , .		1