Xiaonan Huang

List of Publications by Year
in descending order

13	1,925	933447 10	1199594 12
papers	citations	h-index	g-index

14	14	14	2173
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	An autonomously electrically self-healing liquid metalâ€“elastomer composite for robust soft-matter robotics and electronics. Nature Materials, 2018, 17, 618-624.	27.5	736
2	High thermal conductivity in soft elastomers with elongated liquid metal inclusions. Proceedings of the National Academy of Sciences of the United States of America, 2017, 114, 2143-2148.	7.1	456
3	An electrically conductive silverâ€“polyacrylamideâ€“alginate hydrogel composite for soft electronics. Nature Electronics, 2021, 4, 185-192.	26.0	269
4	Chasing biomimetic locomotion speeds: Creating untethered soft robots with shape memory alloy actuators. Science Robotics, 2018, 3, .	17.6	125
5	Highly Dynamic Shape Memory Alloy Actuator for Fast Moving Soft Robots. Advanced Materials Technologies, 2019, 4, 1800540.	5.8	125
6	Dynamic simulation of articulated soft robots. Nature Communications, 2020, 11, 2233.	12.8	57
7	Shape memory materials for electrically-powered soft machines. Journal of Materials Chemistry B, 2020, 8, 4539-4551.	5.8	52
8	On Planar Discrete Elastic Rod Models for the Locomotion of Soft Robots. Soft Robotics, 2019, 6, 595-610.	8.0	48
9	Soft Electrically Actuated Quadruped (SEAQ)â€”Integrating a Flex Circuit Board and Elastomeric Limbs for Versatile Mobility. IEEE Robotics and Automation Letters, 2019, 4, 2415-2422.	5.1	29
10	Shape Memory Alloy (SMA) Actuator With Embedded Liquid Metal Curvature Sensor for Closed-Loop Control. Frontiers in Robotics and AI, 2021, 8, 599650.	3.2	10
11	Soft Thermal Actuators with Embedded Liquid Metal Microdroplets for Improved Heat Management. , 2020, , .		3
12	Numerical Simulation of an Untethered Omni-Directional Star-Shaped Swimming Robot. , 2021, , .		2
13	Soft Lattice Modules That Behave Independently and Collectively. IEEE Robotics and Automation Letters, 2022, 7, 5942-5949.	5.1	2