Wei Wang

List of Publications by Year in descending order

32 papers	1,955 citations	304602 22 h-index	454834 30 g-index
32 all docs	32 docs citations	32 times ranked	1772 citing authors

#	Article	IF	Citations
1	Shape Memory Alloyâ€Based Soft Amphibious Robot Capable of Sealâ€Inspired Locomotion. Advanced Materials Technologies, 2022, 7, .	3.0	25
2	Modular Assembly of Soft Machines via Multidirectional Reclosable Fasteners. Advanced Intelligent Systems, 2022, 4, .	3.3	3
3	Controlling bending deformation of a shape memory alloy-based soft planar gripper to grip deformable objects. International Journal of Mechanical Sciences, 2021, 193, 106181.	3.6	33
4	Re-foldable origami-inspired bidirectional twisting of artificial muscles reproduces biological motion. Cell Reports Physical Science, 2021, 2, 100407.	2.8	17
5	Robotic soft swim bladder using liquidâ€“vapor phase transition. Materials Horizons, 2021, 8, 939-947.	6.4	14
6	Mechanical Assembly of Thermoâ€Responsive Polymerâ€Based Untethered Shapeâ€Morphing Structures. Macromolecular Materials and Engineering, 2020, 305, 1900568.	1.7	7
7	Design and Analysis of Artificial Muscle Robotic Elbow Joint Using Shape Memory Alloy Actuator. International Journal of Precision Engineering and Manufacturing, 2020, 21, 249-256.	1.1	21
8	Shape Memory Alloy-Based Soft Finger with Changeable Bending Length Using Targeted Variable Stiffness. Soft Robotics, 2020, 7, 283-291.	4.6	79
9	Advanced Artificial Muscle for Flexible Materialâ€Based Reconfigurable Soft Robots. Advanced Science, 2019, 6, 1901371.	5.6	71
10	Pleated Film-Based Soft Twisting Actuator. International Journal of Precision Engineering and Manufacturing, 2019, 20, 1149-1158.	1.1	9
11	Origami system for efficient solar driven distillation in emergency water supply. Chemical Engineering Journal, 2019, 356, 869-876.	6.6	87
12	Soft grasping mechanisms composed of shape memory polymer based self-bending units. Composites Part B: Engineering, 2019, 164, 198-204.	5.9	55
13	Soft Tendril-Inspired Grippers: Shape Morphing of Programmable Polymerâ€“Paper Bilayer Composites. ACS Applied Materials & Interfaces, 2018, 10, 10419-10427.	4.0	118
14	Mechanical assembly of soft deployable structures and robots. , 2018, , .		0
15	Modular assembly of soft deployable structures and robots. Materials Horizons, 2017, 4, 367-376.	6.4	48
16	An Overview of Shape Memory Alloy-Coupled Actuators and Robots. Soft Robotics, 2017, 4, 3-15.	4.6	189
17	Curved shape memory alloy-based soft actuators and application to soft gripper. Composite Structures, 2017, 176, 398-406.	3.1	109
18	Kirigami/Origamiâ€Based Soft Deployable Reflector for Optical Beam Steering. Advanced Functional Materials, 2017, 27, 1604214.	7.8	71

#	Article	IF	Citations
19	Shape Memory Alloy-Based Soft Gripper with Variable Stiffness for Compliant and Effective Grasping. Soft Robotics, 2017, 4, 379-389.	4.6	247
20	Deployable Soft Composite Structures. Scientific Reports, 2016, 6, 20869.	1.6	63
21	Soft composite hinge actuator and application to compliant robotic gripper. Composites Part B: Engineering, 2016, 98, 397-405.	5.9	84
22	Woven type smart soft composite for soft morphing car spoiler. Composites Part B: Engineering, 2016, 86, 285-298.	5.9	56
23	Comparison of mold designs for SMA-based twisting soft actuator. Sensors and Actuators A: Physical, 2016, 237, 96-106.	2.0	26
24	Design and development of bio-mimetic soft robotic hand with shape memory alloy. , 2015, , .		10
25	Smart soft composite actuator with shape retention capability using embedded fusible alloy structures. Composites Part B: Engineering, 2015, 78, 507-514.	5.9	74
26	Fabrication of wrist-like SMA-based actuator by double smart soft composite casting. Smart Materials and Structures, 2015, 24, 125003.	1.8	59
27	SMA-based smart soft composite structure capable of multiple modes of actuation. Composites Part B: Engineering, 2015, 82, 152-158.	5.9	61
28	A smart soft actuator using a single shape memory alloy for twisting actuation. Smart Materials and Structures, 2015, 24, 125033.	1.8	51
29	3D soft lithography: A fabrication process for thermocurable polymers. Journal of Materials Processing Technology, 2015, 217, 302-309.	3.1	25
30	Smart Phone Robot Made of Smart Soft Composite (SSC). Composites Research, 2015, 28, 52-57.	0.1	16
31	Locomotion of inchworm-inspired robot made of smart soft composite (SSC). Bioinspiration and Biomimetics, 2014, 9, 046006.	1.5	181
32	Cross-shaped twisting structure using SMA-based smart soft composite. International Journal of Precision Engineering and Manufacturing - Green Technology, 2014, 1, 153-156.	2.7	46