

Yang Yang

List of Publications by Year in descending order

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36
papers

1,796
citations

567144

15
h-index

677027

22
g-index

36
all docs

36
docs citations

36
times ranked

1574
citing authors

#	ARTICLE	IF	CITATIONS
1	A Novel, Variable Stiffness Robotic Gripper Based on Integrated Soft Actuating and Particle Jamming. <i>Soft Robotics</i> , 2016, 3, 134-143.	4.6	247
2	Passive Particle Jamming and Its Stiffening of Soft Robotic Grippers. <i>IEEE Transactions on Robotics</i> , 2017, 33, 446-455.	7.3	227
3	3D printing of shape memory polymer for functional part fabrication. <i>International Journal of Advanced Manufacturing Technology</i> , 2016, 84, 2079-2095.	1.5	215
4	Bioinspired Robotic Fingers Based on Pneumatic Actuator and 3D Printing of Smart Material. <i>Soft Robotics</i> , 2017, 4, 147-162.	4.6	176
5	Controllable and reversible tuning of material rigidity for robot applications. <i>Materials Today</i> , 2018, 21, 563-576.	8.3	158
6	Novel Variable-Stiffness Robotic Fingers with Built-In Position Feedback. <i>Soft Robotics</i> , 2017, 4, 338-352.	4.6	100
7	Hybrid Jamming for Bioinspired Soft Robotic Fingers. <i>Soft Robotics</i> , 2020, 7, 292-308.	4.6	91
8	Principles and methods for stiffness modulation in soft robot design and development. <i>Bio-Design and Manufacturing</i> , 2018, 1, 14-25.	3.9	78
9	Novel Design and Three-Dimensional Printing of Variable Stiffness Robotic Grippers. <i>Journal of Mechanisms and Robotics</i> , 2016, 8, .	1.5	54
10	Innovative Design of Embedded Pressure and Position Sensors for Soft Actuators. <i>IEEE Robotics and Automation Letters</i> , 2018, 3, 656-663.	3.3	52
11	A soft robotic spine with tunable stiffness based on integrated ball joint and particle jamming. <i>Mechatronics</i> , 2016, 33, 84-92.	2.0	51
12	Soft Robotic Grippers Based on Particle Transmission. <i>IEEE/ASME Transactions on Mechatronics</i> , 2019, 24, 969-978.	3.7	42
13	Effective Estimation of Contact Force and Torque for Vision-Based Tactile Sensors With Helmholtzâ€™s Hodge Decomposition. <i>IEEE Robotics and Automation Letters</i> , 2019, 4, 4094-4101.	3.3	34
14	Novel Design and 3-D Printing of Nonassembly Controllable Pneumatic Robots. <i>IEEE/ASME Transactions on Mechatronics</i> , 2016, 21, 649-659.	3.7	27
15	A Low-cost Inchworm-inspired Soft Robot Driven by Supercoiled Polymer Artificial Muscle. , 2019, , .		27
16	3D printing of variable stiffness hyper-redundant robotic arm. , 2016, , .		25
17	Novel design and 3D printing of variable stiffness robotic fingers based on shape memory polymer. , 2016, , .		24
18	A 3D-Printed Fin Ray Effect Inspired Soft Robotic Gripper with Force Feedback. <i>Micromachines</i> , 2021, 12, 1141.	1.4	18

#	ARTICLE	IF	CITATIONS
19	A Dual-Mode Actuator for Soft Robotic Hand. IEEE Robotics and Automation Letters, 2021, 6, 1144-1151.	3.3	17
20	A Novel Variable Stiffness Actuator Based on Pneumatic Actuation and Supercoiled Polymer Artificial Muscles. , 2019, , .		16
21	3D printing of smart materials for robotics with variable stiffness and position feedback. , 2017, , .		14
22	Design and Automatic Fabrication of Novel Bio-Inspired Soft Smart Robotic Hands. IEEE Access, 2020, 8, 155912-155925.	2.6	14
23	Untethered, high-speed soft jumpers enabled by combustion for motions through multiphase environments. Smart Materials and Structures, 2021, 30, 015035.	1.8	14
24	A novel versatile robotic palm inspired by human hand. Engineering Research Express, 2019, 1, 015008.	0.8	13
25	An Origami-Inspired Monolithic Soft Gripper Based on Geometric Design Method. , 2019, , .		10
26	A Compact and Low-cost Robotic Manipulator Driven by Supercoiled Polymer Actuators. , 2020, , .		10
27	Viko: An Adaptive Gecko Gripper with Vision-based Tactile Sensor. , 2021, , .		8
28	Soft Actuator with Programmable Design: Modeling, Prototyping, and Applications. Soft Robotics, 2022, 9, 907-925.	4.6	8
29	Novel Design of a Soft Pump Driven by Super-Coiled Polymer Artificial Muscles. , 2020, , .		6
30	A Proprioceptive Soft Robot Module Based on Supercoiled Polymer Artificial Muscle Strings. Polymers, 2022, 14, 2265.	2.0	6
31	A 22-DOFs Bio-inspired Soft Hand Achieving 6 Kinds of In-hand Manipulation. , 2021, , .		5
32	Parallel-motion Thick Origami Structure for Robotic Design. , 2020, , .		4
33	A Flexible Connector for Soft Modular Robots Based on Micropatterned Intersurface Jamming. , 2020, , .		3
34	Dynamic modeling and analysis of A 3-DOF parallel haptic device. , 2013, , .		1
35	Oscillation suppression in a particle robotic arm by stiffness and damping regulation. Mechatronics, 2022, 85, 102819.	2.0	1
36	A Three-Fingered Adaptive Gripper with Multiple Grasping Modes. , 2021, , .		0