Jun Shintake

List of Publications by Year
in descending order

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35 papers	3,263 citations	566801 15 h-index	500791 28 g-index
37 all docs	37 docs citations	37 times ranked	3068 citing authors

#	Article	IF	Citations
1	Liquid metal-based soft actuators and sensors for biomedical applications. , 2022, , 585-594.		0
2	Characterization of slide ring materials for dielectric elastomer actuators. Smart Materials and Structures, 2022, 31, 025028.	1.8	3
3	A Variable Stiffness Magnetic Catheter Made of a Conductive Phaseâ€Change Polymer for Minimally Invasive Surgery. Advanced Functional Materials, 2022, 32, .	7.8	40
4	Green Robotics: Toward Realization of Environmentally Friendly Soft Robots. Journal of Robotics and Mechatronics, 2022, 34, 270-272.	0.5	5
5	Grasping State and Object Estimation of a Flat Shell Gripper by Strain and Proximity Measurement using a Single Capacitance-Based Sensor. , 2022, , .		0
6	Rapid Fabrication Method for Soft Devices Using Offâ€theâ€Shelf Conductive and Dielectric Acrylic Elastomers. Advanced Intelligent Systems, 2021, 3, 2000173.	3.3	6
7	Cartilage structure increases swimming efficiency of underwater robots. Scientific Reports, 2021, 11, 11288.	1.6	8
8	Stretchable and Soft Electroadhesion Using Liquidâ€Metal Subsurface Microelectrodes. Advanced Materials Technologies, 2021, 6, 2100263.	3.0	16
9	Self-Sensing McKibben Artificial Muscles Embedded With Dielectric Elastomer Sensor. IEEE Robotics and Automation Letters, 2021, 6, 6274-6280.	3.3	16
10	Deep Reinforcement Learning Framework for Underwater Locomotion of Soft Robot. , 2021, , .		12
11	Fiber-reinforced soft polymeric manipulator with smart motion scaling and stiffness tunability. Cell Reports Physical Science, 2021, 2, 100600.	2.8	6
12	Characterization of Sustainable Robotic Materials and Finite Element Analysis of Soft Actuators Under Biodegradation. Frontiers in Robotics and AI, 2021, 8, 760485.	2.0	7
13	Monolithic Stacked Dielectric Elastomer Actuators. Frontiers in Robotics and AI, 2021, 8, 714332.	2.0	8
14	Dielectric Elastomer Fiber Actuators with Aqueous Electrode. Polymers, 2021, 13, 4310.	2.0	8
15	Phase Changing Materials-Based Variable-Stiffness Tensegrity Structures. Soft Robotics, 2020, 7, 362-369.	4.6	40
16	Lighter and Stronger: Cofabricated Electrodes and Variable Stiffness Elements in Dielectric Actuators. Advanced Intelligent Systems, 2020, 2, 2000069.	3.3	24
17	Bio-inspired Tensegrity Fish Robot. , 2020, , .		20
18	Lowâ€Cost Sensorâ€Rich Fluidic Elastomer Actuators Embedded with Paper Electronics. Advanced Intelligent Systems, 2020, 2, 2080073.	3.3	0

#	Article	IF	Citations
19	Foldable Kirigami Paper Electronics. Physica Status Solidi (A) Applications and Materials Science, 2020, 217, 1900891.	0.8	5
20	Large, Fast, and Bidirectional Bending of Slideâ€Ring Polymer Materials. Advanced Intelligent Systems, 2020, 2, 1900155.	3.3	6
21	Lowâ€Cost Sensorâ€Rich Fluidic Elastomer Actuators Embedded with Paper Electronics. Advanced Intelligent Systems, 2020, 2, 2000025.	3.3	17
22	Stretchable pumps for soft machines. Nature, 2019, 572, 516-519.	13.7	263
23	Sensitivity Improvement of Highly Stretchable Capacitive Strain Sensors by Hierarchical Auxetic Structures. Frontiers in Robotics and AI, 2019, 6, 127.	2.0	42
24	Allâ€Fabric Wearable Electroadhesive Clutch. Advanced Materials Technologies, 2019, 4, 1800313.	3.0	43
25	Characterization of dielectric elastomer actuators made of slide ring materials. , 2019, , .		3
26	Characterization of Bio-Degradable Materials for Soft Robotics. , 2019, , .		2
27	Ultrastretchable Strain Sensors Using Carbon Blackâ€Filled Elastomer Composites and Comparison of Capacitive Versus Resistive Sensors. Advanced Materials Technologies, 2018, 3, 1700284.	3.0	219
28	Soft Robotic Grippers. Advanced Materials, 2018, 30, e1707035.	11.1	1,097
29	Soft Biomimetic Fish Robot Made of Dielectric Elastomer Actuators. Soft Robotics, 2018, 5, 466-474.	4.6	222
30	Bioinspired dual-stiffness origami. Science Robotics, 2018, 3, .	9.9	115
31	Versatile Soft Grippers with Intrinsic Electroadhesion Based on Multifunctional Polymer Actuators. Advanced Materials, 2016, 28, 231-238.	11.1	593
32	Variable Stiffness Fiber with Selfâ€Healing Capability. Advanced Materials, 2016, 28, 10142-10148.	11.1	142
33	Rollable Multisegment Dielectric Elastomer Minimum Energy Structures for a Deployable Microsatellite Gripper. IEEE/ASME Transactions on Mechatronics, 2015, 20, 438-446.	3.7	209
34	A Foldable Antagonistic Actuator. IEEE/ASME Transactions on Mechatronics, 2015, 20, 1997-2008.	3.7	60
35	Enhancement of pressureâ€sensitive adhesive by CO ² laser treatment. Advanced Engineering Materials, 0, , .	1.6	0