Yigit Menguc

List of Publications by Year in descending order

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#	Article	IF	CITATIONS
1	3D Printed Motor-Sensory Module Prototype for Facial Rehabilitation. Soft Robotics, 2022, 9, 354-363.	4.6	3
2	Experimentally Identified Models of McKibben Soft Actuators as Primary Movers and Passive Structures. Journal of Mechanisms and Robotics, 2022, 14, .	1.5	5
3	Acoustophoretic Liquefaction for 3D Printing Ultrahighâ€Viscosity Nanoparticle Suspensions. Advanced Materials, 2022, 34, e2106183.	11.1	14
4	Redundancy and overactuation in cephalopod-inspired soft robot arms. Bioinspiration and Biomimetics, 2022, , .	1.5	0
5	Redundancy and overactuation in cephalopod-inspired soft robot arms. Bioinspiration and Biomimetics, 2022, 17, 036004.	1.5	1
6	Self-Sensing, Stretchable, Active Circuit Arrays: Liquid Metal Paste as a Combination Interconnect and Strain Sensor. , 2022, , .		1
7	Curvilinear Kirigami Skins Let Soft Bending Actuators Slither Faster. Frontiers in Robotics and AI, 2022, 9, 872007.	2.0	4
8	A generalizable equilibrium model for bending soft arms with longitudinal actuators. International Journal of Robotics Research, 2021, 40, 148-177.	5.8	12
9	Indentation and bifurcation of inflated membranes. Proceedings of the Royal Society A: Mathematical, Physical and Engineering Sciences, 2021, 477, 20200930.	1.0	3
10	Stenciled Liquid Metal Paste for Robust Stretchable Electrical Interconnects. , 2021, , .		4
11	Auger-Based 3D Printing of Stretchable Liquid Metal Paste Interconnects: A Brief Tutorial. , 2021, , .		Ο
12	Multi-material direct ink writing of photocurable elastomeric foams. Communications Materials, 2021, 2, .	2.9	28
13	A tuned mass amplifier for enhanced haptic feedback. Mechanics of Materials, 2021, 160, 103979.	1.7	0
14	Predicting interfacial layer adhesion strength in 3D printable silicone. Additive Manufacturing, 2021, 47, 102320.	1.7	9
15	Lumped-Parameter Response Time Models for Pneumatic Circuit Dynamics. Journal of Dynamic Systems, Measurement and Control, Transactions of the ASME, 2021, 143, .	0.9	12
16	Learning to Control Reconfigurable Staged Soft Arms. , 2020, , .		2
17	Machine learning generative models for automatic design of multi-material 3D printed composite solids. Extreme Mechanics Letters, 2020, 41, 100992.	2.0	43
18	An Euler–Bernoulli beam model for soft robot arms bent through self-stress and external loads. International Journal of Solids and Structures, 2020, 207, 113-131.	1.3	20

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19	A data-driven computational scheme for the nonlinear mechanical properties of cellular mechanical metamaterials under large deformation. Soft Matter, 2020, 16, 7524-7534.	1.2	30
20	Skin in the Game: A Tunable Interface-Quality Sensor for Human-Coupled Accessories. , 2020, 4, 1-4.		2
21	Evaluation of a Circumferential Extending Antagonist Actuator in a Soft Arm. , 2020, , .		1
22	3D printable tough silicone double networks. Nature Communications, 2020, 11, 4000.	5.8	74
23	3D Printing of Viscoelastic Suspensions via Digital Light Synthesis for Tough Nanoparticle–Elastomer Composites. Advanced Materials, 2020, 32, e2001646.	11.1	31
24	Self-sensing Elastomeric Membrane for Haptic Bubble Arrray. , 2020, , .		3
25	Analyzing the Effect of Soft Arm Design on Obstacle Navigation through Collision. , 2020, , .		2
26	Design of Deployable Soft Robots Through Plastic Deformation of Kirigami Structures. IEEE Robotics and Automation Letters, 2020, 5, 2272-2279.	3.3	26
27	Snake-Inspired Kirigami Skin for Lateral Undulation of a Soft Snake Robot. IEEE Robotics and Automation Letters, 2020, 5, 1728-1733.	3.3	34
28	Electrical Characterization of Stretchable Printed Liquid Metal Interconnects under Repeated Cyclic Loading. , 2019, , .		1
29	Compact Modeling of Stretchable Printed Liquid Metal Electrical Interconnects. , 2019, , .		Ο
30	Evaluation of 3D Printed Soft Robots in Radiation Environments and Comparison With Molded Counterparts. Frontiers in Robotics and AI, 2019, 6, 40.	2.0	27
31	3D-Printed Liquid Metal Interconnects for Stretchable Electronics. IEEE Sensors Journal, 2019, 19, 3832-3840.	2.4	57
32	Characterization of a Class of Soft Bending Arms. , 2019, , .		4
33	Zero-Support 3D Printing of Thermoset Silicone Via Simultaneous Control of Both Reaction Kinetics and Transient Rheology. 3D Printing and Additive Manufacturing, 2019, 6, 139-147.	1.4	29
34	Developing a UV-Curable, Environmentally Benign and Degradable Elastomer for Soft Robotics. MRS Advances, 2018, 3, 1551-1556.	0.5	5
35	Fully Soft 3D-Printed Electroactive Fluidic Valve for Soft Hydraulic Robots. Soft Robotics, 2018, 5, 258-271.	4.6	68
36	Rheological Modification of Liquid Metal for Additive Manufacturing of Stretchable Electronics. Advanced Materials Technologies, 2018, 3, 1700351.	3.0	149

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37	Soft Snake Robots: Investigating the Effects of Gait Parameters on Locomotion in Complex Terrains. , 2018, , .		16
38	Highly-Stretchable Biomechanical Strain Sensor using Printed Liquid Metal Paste. , 2018, , .		16
39	Incorporate Oblique Muscle Contractions to Strengthen Soft Robots. , 2018, , .		1
40	Direct 3D printing of silicone elastomer soft robots and their performance comparison with molded counterparts. , 2018, , .		68
41	Contextual Collision. , 2018, , .		2
42	Measurement of tissue stiffness using soft eGa-in sensors and pressure application. , 2018, , .		2
43	Helically wound soft actuators for torsion control. , 2018, , .		1
44	Using an environmentally benign and degradable elastomer in soft robotics. International Journal of Intelligent Robotics and Applications, 2017, 1, 124-142.	1.6	24
45	Will robots be bodies with brains or brains with bodies?. Science Robotics, 2017, 2, .	9.9	19
46	Directly Fabricating Soft Robotic Actuators With an Open-Source 3-D Printer. IEEE Robotics and Automation Letters, 2017, 2, 277-281.	3.3	54
47	Soft snake robots: Mechanical design and geometric gait implementation. , 2017, , .		36
48	Smart and Squishy Robots. American Scientist, 2017, 105, 143.	0.1	3
49	Smart and Squishy Robots. American Scientist, 2017, 105, 143.	0.1	Ο
50	What Is the Path Ahead for Soft Robotics?. Soft Robotics, 2016, 3, 159-160.	4.6	9
51	Hybrid soft sensor with embedded IMUs to measure motion. , 2016, , .		4
52	Soft Robotics as an Emerging Academic Field. Soft Robotics, 2015, 2, 131-134.	4.6	7
53	A Soft, Wearable, Quantitative Ankle Diagnostic Device1. Journal of Medical Devices, Transactions of the ASME, 2015, 9, .	0.4	3
54	Capacitive Soft Strain Sensors via Multicore–Shell Fiber Printing. Advanced Materials, 2015, 27, 2440-2446.	11.1	372

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55	Development of the Polipo Pressure Sensing System for Dynamic Space-Suited Motion. IEEE Sensors Journal, 2015, 15, 6229-6237.	2.4	24
56	Wearable soft sensing suit for human gait measurement. International Journal of Robotics Research, 2014, 33, 1748-1764.	5.8	325
57	Pneumatic Energy Sources for Autonomous and Wearable Soft Robotics. Soft Robotics, 2014, 1, 263-274.	4.6	215
58	Mechanical and electrical numerical analysis of soft liquid-embedded deformation sensors analysis. Extreme Mechanics Letters, 2014, 1, 42-46.	2.0	38
59	Staying sticky: contact self-cleaning of gecko-inspired adhesives. Journal of the Royal Society Interface, 2014, 11, 20131205.	1.5	78
60	Embedded 3D Printing of Strain Sensors within Highly Stretchable Elastomers. Advanced Materials, 2014, 26, 6307-6312.	11.1	1,314
61	Soft wearable motion sensing suit for lower limb biomechanics measurements. , 2013, , .		87
62	Enhanced fabrication and characterization of gecko-inspired mushroom-tipped microfiber adhesives. Journal of Adhesion Science and Technology, 2013, 27, 1921-1932.	1.4	26
63	Geckoâ€Inspired Controllable Adhesive Structures Applied to Micromanipulation. Advanced Functional Materials, 2012, 22, 1246-1254.	7.8	145
64	Bioinspired Materials: Gecko-Inspired Controllable Adhesive Structures Applied to Micromanipulation (Adv. Funct. Mater. 6/2012). Advanced Functional Materials, 2012, 22, 1245-1245.	7.8	1
65	Waalbot II: Adhesion Recovery and Improved Performance of a Climbing Robot using Fibrillar Adhesives. International Journal of Robotics Research, 2011, 30, 118-133.	5.8	194

66 Adhesion recovery and passive peeling in a wall climbing robot using adhesives. , 2010, , .