

Charbel D Tawk

List of Publications by Year in descending order

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27
papers

933
citations

567144

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27
times ranked

700
citing authors

#	ARTICLE	IF	CITATIONS
1	Bioinspired 3D Printable Soft Vacuum Actuators for Locomotion Robots, Grippers and Artificial Muscles. <i>Soft Robotics</i> , 2018, 5, 685-694.	4.6	121
2	A 3D-Printed Omni-Purpose Soft Gripper. <i>IEEE Transactions on Robotics</i> , 2019, 35, 1268-1275.	7.3	102
3	Ultra-stretchable MWCNTâ€Ecoflex piezoresistive sensors for human motion detection applications. <i>Composites Science and Technology</i> , 2019, 173, 118-124.	3.8	80
4	A Review of 3Dâ€Printable Soft Pneumatic Actuators and Sensors: Research Challenges and Opportunities. <i>Advanced Intelligent Systems</i> , 2021, 3, 2000223.	3.3	75
5	Soft Pneumatic Actuators: A Review of Design, Fabrication, Modeling, Sensing, Control and Applications. <i>IEEE Access</i> , 2022, 10, 59442-59485.	2.6	72
6	3D Printable Linear Soft Vacuum Actuators: Their Modeling, Performance Quantification and Application in Soft Robotic Systems. <i>IEEE/ASME Transactions on Mechatronics</i> , 2019, 24, 2118-2129.	3.7	70
7	Environmentally Friendly and Biodegradable Ultrasensitive Piezoresistive Sensors for Wearable Electronics Applications. <i>ACS Applied Materials & Interfaces</i> , 2020, 12, 8761-8772.	4.0	55
8	Finite Element Modeling in the Design Process of 3D Printed Pneumatic Soft Actuators and Sensors. <i>Robotics</i> , 2020, 9, 52.	2.1	52
9	Soft Pneumatic Sensing Chambers for Generic and Interactive Humanâ€Machine Interfaces. <i>Advanced Intelligent Systems</i> , 2019, 1, 1900002.	3.3	43
10	Design, Modeling, and Control of a 3D Printed Monolithic Soft Robotic Finger With Embedded Pneumatic Sensing Chambers. <i>IEEE/ASME Transactions on Mechatronics</i> , 2021, 26, 876-887.	3.7	32
11	A 3D printed monolithic soft gripper with adjustable stiffness. , 2017, , .		31
12	3D-printed omnidirectional soft pneumatic actuators: Design, modeling and characterization. <i>Sensors and Actuators A: Physical</i> , 2021, 332, 113199.	2.0	28
13	Fully 3D Printed Monolithic Soft Gripper with High Conformal Grasping Capability. , 2019, , .		27
14	Highly Sensitive Soft Foam Sensors to Empower Robotic Systems. <i>Advanced Materials Technologies</i> , 2019, 4, 1900423.	3.0	26
15	A 3D Printed Modular Soft Gripper Integrated With Metamaterials for Conformal Grasping. <i>Frontiers in Robotics and AI</i> , 2021, 8, 799230.	2.0	22
16	Force Control of a 3D Printed Soft Gripper with Built-In Pneumatic Touch Sensing Chambers. <i>Soft Robotics</i> , 2022, 9, 970-980.	4.6	20
17	A 3D Printed Soft Robotic Hand With Embedded Soft Sensors for Direct Transition Between Hand Gestures and Improved Grasping Quality and Diversity. <i>IEEE Transactions on Neural Systems and Rehabilitation Engineering</i> , 2022, 30, 550-558.	2.7	19
18	3D Printable Vacuum-Powered Soft Linear Actuators. , 2019, , .		11

#	ARTICLE	IF	CITATIONS
19	Low-Hysteresis and Ultrasensitive Microcellular Structures for Wearable Electronic Applications. ACS Applied Materials & Interfaces, 2021, 13, 1632-1643.	4.0	11
20	Position Control of a 3D Printed Soft Finger with Integrated Soft Pneumatic Sensing Chambers. , 2020, , .		10
21	A 3D Printed Soft Prosthetic Hand with Embedded Actuation and Soft Sensing Capabilities for Directly and Seamlessly Switching Between Various Hand Gestures. , 2021, , .		7
22	A 3D Printed Soft Robotic Monolithic Unit for Haptic Feedback Devices. , 2019, , .		6
23	A3D Printed Modular Soft Gripper for Conformal Grasping. , 2020, , .		5
24	3D Printed Soft Pneumatic Bending Sensing Chambers for Bilateral and Remote Control of Soft Robotic Systems. , 2020, , .		4
25	A 3D Printed Soft Force Sensor for Soft Haptics. , 2020, , .		4
26	Design and manufacturing of an array of micro IPMC hair-like sensors. , 2016, , .		0
27	4D-printed pneumatic soft actuators modeling, fabrication, and control. , 2022, , 103-140.		0