

Àric Cattan

List of Publications by Year in descending order

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papers

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371
citing authors

#	ARTICLE	IF	CITATIONS
1	Demonstrating kHz Frequency Actuation for Conducting Polymer Microactuators. <i>Advanced Functional Materials</i> , 2014, 24, 4851-4859.	14.9	96
2	Conducting interpenetrating polymer network sized to fabricate microactuators. <i>Applied Physics Letters</i> , 2011, 98, .	3.3	60
3	Top-down Approach for the Direct Synthesis, Patterning, and Operation of Artificial Micromuscles on Flexible Substrates. <i>ACS Applied Materials & Interfaces</i> , 2016, 8, 1559-1564.	8.0	41
4	Poly(3,4-ethylenedioxythiophene):Poly(styrene sulfonate)/Polyethylene Oxide Electrodes with Improved Electrical and Electrochemical Properties for Soft Microactuators and Microsensors. <i>Advanced Electronic Materials</i> , 2019, 5, 1800948.	5.1	39
5	Ultrathin electrochemically driven conducting polymer actuators: fabrication and electrochemomechanical characterization. <i>Electrochimica Acta</i> , 2018, 265, 670-680.	5.2	23
6	Very large amplitude vibrations of flexible structures: Experimental identification and validation of a quadratic drag damping model. <i>Journal of Fluids and Structures</i> , 2020, 97, 103056.	3.4	18
7	Dry Etching Process on a Conducting Interpenetrating Polymer Network Actuator for a Flapping Fly Micro Robot. , 2011, , .		10
8	Nonlinear dynamic modeling of ultrathin conducting polymer actuators including inertial effects. <i>Smart Materials and Structures</i> , 2018, 27, 115032.	3.5	10
9	Synergetic PEDOT degradation during a reactive ion etching process. <i>Sensors and Actuators B: Chemical</i> , 2016, 229, 635-645.	7.8	8
10	Linear finite-difference bond graph model of an ionic polymer actuator. <i>Smart Materials and Structures</i> , 2017, 26, 095055.	3.5	6
11	Toward an Electroactive Polymer-Based Soft Microgripper. <i>IEEE Access</i> , 2021, 9, 32188-32195.	4.2	6
12	Demonstrating Full Integration Process for Electroactive Polymer Microtransducers to Realize Soft Microchips. , 2020, , .		4
13	PEDOT:PSS-based micromuscles and microsensors fully integrated in flexible chips. <i>Smart Materials and Structures</i> , 2020, 29, 09LT01.	3.5	4
14	Modeling and Experimental Analysis of the Mass Loading Effect on Micro-Ionic Polymer Actuators Using Step Response Identification. <i>Journal of Microelectromechanical Systems</i> , 2021, 30, 243-252.	2.5	1