

Zakai Olsen

List of Publications by Year in descending order

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Version: 2024-02-01

14
papers

124
citations

1307366

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1281743

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all docs

14
docs citations

14
times ranked

115
citing authors

#	ARTICLE	IF	CITATIONS
1	Searching for a new ionomer for 3D printable ionic polymer-metal composites: Aquivion as a candidate. <i>Smart Materials and Structures</i> , 2017, 26, 115029.	1.8	28
2	Basic design of a biomimetic underwater soft robot with switchable swimming modes and programmable artificial muscles. <i>Smart Materials and Structures</i> , 2020, 29, 035038.	1.8	25
3	Bioinspired travelling wave generation in soft-robotics using ionic polymer-metal composites. <i>International Journal of Intelligent Robotics and Applications</i> , 2017, 1, 167-179.	1.6	14
4	Developing next generation ionic polymer-metal composite materials: perspectives for enabling robotics and biomimetics. <i>Polymer International</i> , 2021, 70, 7-9.	1.6	13
5	A hyperelastic porous media framework for ionic polymer-metal composite actuators and sensors: thermodynamically consistent formulation and nondimensionalization of the field equations. <i>Smart Materials and Structures</i> , 2021, 30, 095024.	1.8	12
6	Understanding the Thermal Properties of Precursor-Ionomers to Optimize Fabrication Processes for Ionic Polymer-Metal Composites (IPMCs). <i>Materials</i> , 2018, 11, 665.	1.3	8
7	A study of mechano-electrical transduction behavior in polyvinyl chloride (PVC) gel as smart sensors. <i>Smart Materials and Structures</i> , 2022, 31, 015010.	1.8	7
8	A reduced dimensional mapping approach for modeling IPMCs with computational efficiency and rapid design development applications. <i>Smart Materials and Structures</i> , 2018, 27, 125012.	1.8	6
9	Modelling and Experimental Study for PVC Gel Actuators. , 2019, , .		4
10	Characterizing the transduction behavior of ionic polymer-metal composite actuators and sensors via dimensional analysis. <i>Smart Materials and Structures</i> , 2022, 31, 025014.	1.8	3
11	Approximate field measures for ionic polymer-metal composite materials and a simplified order-of-magnitude actuator model. <i>Smart Materials and Structures</i> , 2022, 31, 025029.	1.8	2
12	Producing intricate IPMC shapes by means of spray-painting and printing (Conference Presentation). , 2017, , .		1
13	Thermo-mechanical response of the twisted and coiled polymer actuator (TCPA): a finite element analysis (FEA). <i>Smart Materials and Structures</i> , 2021, 30, 065017.	1.8	1
14	IPMC-driven thrust generation: a new conceptual design (Conference Presentation). , 2017, , .		0