

Zakai J Olsen

List of Publications by Year in descending order

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7
papers

55
citations

1937685

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1872680

6
g-index

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all docs

7
docs citations

7
times ranked

41
citing authors

#	ARTICLE	IF	CITATIONS
1	Design and Modeling of a New Biomimetic Soft Robotic Jellyfish Using IPMC-Based Electroactive Polymers. <i>Frontiers in Robotics and AI</i> , 2019, 6, 112.	3.2	13
2	Developing next generation ionic polymer-metal composite materials: perspectives for enabling robotics and biomimetics. <i>Polymer International</i> , 2021, 70, 7-9.	3.1	13
3	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.	3.5	12
4	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.	3.5	6
5	Ionic Polymer-Metal Composite (IPMC) Artificial Muscles in Underwater Environments: Review of Actuation, Sensing, Controls, and Applications to Soft Robotics. , 2021, , 117-139.		6
6	Characterizing the transduction behavior of ionic polymer-metal composite actuators and sensors via dimensional analysis. <i>Smart Materials and Structures</i> , 2022, 31, 025014.	3.5	3
7	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.	3.5	2