

Urmas Johanson

List of Publications by Year in descending order

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44
papers

951
citations

516561

16
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434063

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44
all docs

44
docs citations

44
times ranked

891
citing authors

#	ARTICLE	IF	CITATIONS
1	Ionic and Capacitive Artificial Muscle for Biomimetic Soft Robotics. <i>Advanced Engineering Materials</i> , 2015, 17, 84-94.	1.6	141
2	Comparative study of the behavior of anions in polypyrrole films. <i>Electrochimica Acta</i> , 2005, 50, 1523-1528.	2.6	86
3	Nanoporous carbon-based electrodes for high strain ionomeric bending actuators. <i>Smart Materials and Structures</i> , 2009, 18, 095028.	1.8	72
4	Ionic electroactive polymer artificial muscles in space applications. <i>Scientific Reports</i> , 2014, 4, 6913.	1.6	64
5	Ionic liquid-based actuators working in air: The effect of ambient humidity. <i>Sensors and Actuators B: Chemical</i> , 2014, 202, 114-122.	4.0	63
6	Electroactive polymer actuators with carbon aerogel electrodes. <i>Journal of Materials Chemistry</i> , 2011, 21, 2577.	6.7	61
7	Charging a supercapacitor-like laminate with ambient moisture: from a humidity sensor to an energy harvester. <i>Physical Chemistry Chemical Physics</i> , 2013, 15, 9605.	1.3	50
8	A Distributed Model of Ionomeric Polymer Metal Composite. <i>Journal of Intelligent Material Systems and Structures</i> , 2009, 20, 1711-1724.	1.4	48
9	Nanoporous Carbide-Derived Carbon Material-Based Linear Actuators. <i>Materials</i> , 2010, 3, 9-25.	1.3	44
10	Electrode reactions in Cu/Pt coated ionic polymer actuators. <i>Sensors and Actuators B: Chemical</i> , 2008, 131, 340-346.	4.0	40
11	A carbide-derived carbon laminate used as a mechano-electrical sensor. <i>Carbon</i> , 2012, 50, 535-541.	5.4	35
12	Scalable fabrication of ionic and capacitive laminate actuators for soft robotics. <i>Sensors and Actuators B: Chemical</i> , 2017, 246, 154-163.	4.0	35
13	Influence of Anions on Electrochemical Properties of Polypyrrole-Modified Electrodes. <i>Russian Journal of Electrochemistry</i> , 2002, 38, 182-187.	0.3	32
14	A new class of ionic electroactive polymers based on green synthesis. <i>Sensors and Actuators A: Physical</i> , 2016, 249, 32-44.	2.0	23
15	In situ scanning electron microscopy study of strains of ionic electroactive polymer actuators. <i>Journal of Intelligent Material Systems and Structures</i> , 2016, 27, 1061-1074.	1.4	18
16	Study of the Properties of Electrodeposited Polypyrrole Films. <i>Russian Journal of Electrochemistry</i> , 2004, 40, 344-348.	0.3	16
17	Electromechanically active polymer actuators based on biofriendly choline ionic liquids. <i>Smart Materials and Structures</i> , 2020, 29, 055021.	1.8	16
18	Effect of ambient humidity on ionic electroactive polymer actuators. <i>Smart Materials and Structures</i> , 2016, 25, 055038.	1.8	14

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19	Lifetime measurements of ionic electroactive polymer actuators. <i>Journal of Intelligent Material Systems and Structures</i> , 2014, 25, 2267-2275.	1.4	12
20	Encapsulation of ionic electromechanically active polymer actuators. <i>Smart Materials and Structures</i> , 2019, 28, 074002.	1.8	10
21	Effect of porosity and tortuosity of electrodes on carbon polymer soft actuators. <i>Journal of Applied Physics</i> , 2018, 123, 014502.	1.1	9
22	Modelling and Control of Ionic Electroactive Polymer Actuators under Varying Humidity Conditions. <i>Actuators</i> , 2018, 7, 7.	1.2	9
23	Mechanical and electro-mechanical properties of EAP actuators with inkjet printed electrodes. <i>Synthetic Metals</i> , 2018, 246, 122-127.	2.1	8
24	An All-Textile Non-muscular Biomimetic Actuator Based on Electrohydrodynamic Swelling. <i>Frontiers in Bioengineering and Biotechnology</i> , 2020, 8, 408.	2.0	8
25	A power-autonomous self-rolling wheel using ionic and capacitive actuators. <i>Proceedings of SPIE</i> , 2015, , .	0.8	4
26	Modeling, fabrication, and characterization of motion platform actuated by carbon polymer soft actuator. <i>Sensors and Actuators A: Physical</i> , 2018, 283, 87-97.	2.0	4
27	Ionic Actuators as Manipulators for Microscopy. <i>Frontiers in Robotics and AI</i> , 2019, 6, 140.	2.0	4
28	Ionic polymer metal composites with nanoporous carbon electrodes. , 2010, , .		3
29	Pulse-width-modulated charging of ionic and capacitive actuators. , 2014, , .		3
30	Thermal behavior of ionic electroactive polymer actuators. , 2015, , .		3
31	Fabrication of Carbon-Based Ionic Electromechanically Active Soft Actuators. <i>Journal of Visualized Experiments</i> , 2020, , .	0.2	3
32	Chapter 6. Ionic Polymer Metal Composites with Electrochemically Active Electrodes. <i>RSC Smart Materials</i> , 2015, , 215-227.	0.1	3
33	Some electrochemical aspects of aqueous ionic polymer-composite actuators. , 2016, , .		2
34	Carbide-derived carbon and poly-3,4-ethylenedioxythiophene composite laminate: linear and bending actuation. <i>Synthetic Metals</i> , 2018, 245, 67-73.	2.1	2
35	Low voltage linear actuators based on carbide-derived carbon powder. <i>Proceedings of SPIE</i> , 2009, , .	0.8	1
36	Carbon-polymer-ionic liquid composite as a motion sensor. <i>Proceedings of SPIE</i> , 2012, , .	0.8	1

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37	An ionic liquid-based actuator as a humidity sensor. , 2013, , .		1
38	Effect of electrical terminals made of copper to the ionic electroactive polymer actuators. Proceedings of SPIE, 2017, , .	0.8	1
39	Modelling and control of self-sensing ionic electroactive polymer actuator. , 2019, , .		1
40	Kinetics of catalyzed dehydrocondensation of hydrogen functionalized siloxane. Journal of Applied Polymer Science, 0, , 52304.	1.3	1
41	Self healing properties of Cu-Pt coated ionic polymer actuators. , 2008, , .		0
42	Fish-skeleton visualization of bending actuators. Proceedings of SPIE, 2016, , .	0.8	0
43	Effect of porosity of the electrodes on ionic electroactive polymer actuators. Proceedings of SPIE, 2017, , .	0.8	0
44	Fabrication of carbon polymer composite manipulated multi-degree motion platform. , 2018, , .		0