Indrek Must

List of Publications by Year
in descending order

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32 papers	682 citations	759055 12 h-index	642610 23 g-index
32 all docs	32 docs citations	32 times ranked	774 citing authors

#	Article	IF	Citations
1	Ionic and Capacitive Artificial Muscle for Biomimetic Soft Robotics. Advanced Engineering Materials, 2015, 17, 84-94.	1.6	141
2	A variable-stiffness tendril-like soft robot based on reversible osmotic actuation. Nature Communications, 2019, 10, 344.	5.8	130
3	Ionic electroactive polymer artificial muscles in space applications. Scientific Reports, 2014, 4, 6913.	1.6	64
4	Ionic liquid-based actuators working in air: The effect of ambient humidity. Sensors and Actuators B: Chemical, 2014, 202, 114-122.	4.0	63
5	Combined chemical and electrochemical synthesis methods for metal-free polypyrrole actuators. Sensors and Actuators B: Chemical, 2012, 166-167, 411-418.	4.0	54
6	Charging a supercapacitor-like laminate with ambient moisture: from a humidity sensor to an energy harvester. Physical Chemistry Chemical Physics, 2013, 15, 9605.	1.3	50
7	A carbide-derived carbon laminate used as a mechanoelectrical sensor. Carbon, 2012, 50, 535-541.	5.4	35
8	Scalable fabrication of ionic and capacitive laminate actuators for soft robotics. Sensors and Actuators B: Chemical, 2017, 246, 154-163.	4.0	35
9	In situ scanning electron microscopy study of strains of ionic electroactive polymer actuators. Journal of Intelligent Material Systems and Structures, 2016, 27, 1061-1074.	1.4	18
10	Carbide-derived carbon as active interlayer of polypyrrole tri-layer linear actuator. Sensors and Actuators B: Chemical, 2014, 201, 100-106.	4.0	14
11	Lifetime measurements of ionic electroactive polymer actuators. Journal of Intelligent Material Systems and Structures, 2014, 25, 2267-2275.	1.4	12
12	Direct assessment of solidâ€“liquid interface noise in ion sensing using a differential method. Applied Physics Letters, 2016, 108, .	1.5	12
13	Mechanoelectrical impedance of a carbide-derived carbon-based laminate motion sensor at large bending deflections. Smart Materials and Structures, 2013, 22, 104015.	1.8	8
14	An All-Textile Non-muscular Biomimetic Actuator Based on Electrohydrodynamic Swelling. Frontiers in Bioengineering and Biotechnology, 2020, 8, 408.	2.0	8
15	Linear modeling of elongated bending EAP actuator at large deformations. Proceedings of SPIE, 2009, , .	0.8	5
16	Smart insole sensors for sports and rehabilitation. Proceedings of SPIE, 2014, , .	0.8	5
17	Comparison of the Carbon Nanofiber-/Fiber- and Silicone-Based Electrodes for Bioimpedance Measurements. IEEE Transactions on Instrumentation and Measurement, 2020, 69, 1455-1463.	2.4	5
18	A power-autonomous self-rolling wheel using ionic and capacitive actuators. Proceedings of SPIE, 2015, , .	0.8	4

#	Article	IF	Citations
19	Ionic Actuators as Manipulators for Microscopy. Frontiers in Robotics and AI, 2019, 6, 140.	2.0	4
20	Pulse-width-modulated charging of ionic and capacitive actuators. , 2014, , .		3
21	Thermal behavior of ionic electroactive polymer actuators. , 2015, , .		3
22	Fabrication of Carbon-Based Ionic Electromechanically Active Soft Actuators. Journal of Visualized Experiments, 2020, , .	0.2	3
23	Long-term degradation of the ionic electroactive polymer actuators. Proceedings of SPIE, 2015, , .	0.8	2
24	Effects of ionic liquids and dual curing on vat photopolymerization process and properties of 3d-printed ionogels. Additive Manufacturing, 2022, 56, 102895.	1.7	2
25	Carbon-polymer-ionic liquid composite as a motion sensor. Proceedings of SPIE, 2012, , .	0.8	1
26	An ionic liquid-based actuator as a humidity sensor. , 2013, , .		1
27	Ionic EAP transducers with amorphous nanoporous carbon electrodes. Proceedings of SPIE, 2012, , .	0.8	0
28	In situmeasurements with CPC micro-actuators using SEM. , 2014, , .		0
29	Electrochemically and Electrothermally Driven Carbon-Based Materials as EAPs: How to Start Experimenting with Them. , 2016, , 471-486.		0
30	Electrochemically and Electrothermally Driven Carbon-Based Materials as EAPs: How to Start Experimenting with Them. , 2016, , 1-16.		0
31	A Self-Commutated Helical Polypyrrole Actuator Fabricated by Filament Patterning. IEEE Robotics and Automation Letters, 2022, 7, 5858-5865.	3.3	0
32	A leaf-inspired robot combining embroidered structure with ion-induced actuation. , 2022, , .		0