

CITATION REPORT

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IPMC as a piezoelectric energy harvester: tailored proper

DOI: 10.1088/0964-1726/22/1/015017

Smart Materials and Structures, 2013, 22, 015017.

Source: <https://exaly.com/paper-pdf/55902320/citation-report.pdf>

Version: 2024-04-24

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#	Paper	IF	Citations
50	Energy harvesting from underwater torsional vibrations of a patterned ionic polymer metal composite. <i>Smart Materials and Structures</i> , 2013 , 22, 055027	3.4	27
49	Mechanoelectric transduction in ionic polymer-metal composite. <i>Applied Physics Letters</i> , 2013 , 102, 123902	3.4	10
48	Electrode of ionic polymer-metal composite sensors: modeling and experimental investigation. 2014 ,		
47	Energy balance for peak detection method in piezoelectric energy harvester. <i>Journal of Intelligent Material Systems and Structures</i> , 2014 , 25, 1024-1035	2.3	8
46	Lifetime measurements of ionic electroactive polymer actuators. <i>Journal of Intelligent Material Systems and Structures</i> , 2014 , 25, 2267-2275	2.3	12
45	Electrode of ionic polymer-metal composite sensors: Modeling and experimental investigation. <i>Journal of Applied Physics</i> , 2014 , 115, 194902	2.5	21
44	Energy harvesting from fluid-induced buckling of ionic polymer metal composites. <i>Journal of Intelligent Material Systems and Structures</i> , 2014 , 25, 1496-1510	2.3	19
43	Ionic electroactive polymer artificial muscles in space applications. <i>Scientific Reports</i> , 2014 , 4, 6913	4.9	48
42	Integrated static and dynamic modeling of an ionic polymer-metal composite actuator. <i>Journal of Intelligent Material Systems and Structures</i> , 2015 , 26, 1164-1178	2.3	9
41	Accurate Dynamic Modeling of Helical Ionic Polymer-Metal Composite Actuator Based on Intrinsic Equations. <i>IEEE/ASME Transactions on Mechatronics</i> , 2015 , 20, 1680-1688	5.5	3
40	Energy harvesting from human motion: materials and techniques. <i>Chemical Society Reviews</i> , 2016 , 45, 5455-5473	58.5	80
39	Effects of cation on electrical responses of ionic polymer-metal composite sensors at various ambient humidities. <i>Journal of Applied Physics</i> , 2016 , 120, 084906	2.5	17
38	An easily fabricated high performance ionic polymer based sensor network. <i>Applied Physics Letters</i> , 2016 , 109, 073504	3.4	16
37	Multi-physical model of cation and water transport in ionic polymer-metal composite sensors. <i>Journal of Applied Physics</i> , 2016 , 119, 124901	2.5	23
36	A multi-physical model for charge and mass transport in a flexible ionic polymer sensor. 2016 ,		1
35	Voltage attenuation along the electrodes of ionic polymer metal composites. <i>Journal of Intelligent Material Systems and Structures</i> , 2016 , 27, 2426-2430	2.3	4
34	Influence of Ambient Humidity on the Voltage Response of Ionic Polymer-Metal Composite Sensor. <i>Journal of Physical Chemistry B</i> , 2016 , 120, 3215-25	3.4	31

33	Random vibration energy harvesting on thin plates using multiple piezopatches. <i>Journal of Intelligent Material Systems and Structures</i> , 2016 , 27, 2744-2756	2.3	21
32	Sensing Human Pulse Bit Using Ionic Polymer Metal Composite (IPMC). <i>Lecture Notes in Mechanical Engineering</i> , 2016 , 97-101	0.4	
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30	Energy harvesting using flexible piezoelectric materials from human walking motion: Theoretical analysis. <i>Journal of Intelligent Material Systems and Structures</i> , 2017 , 28, 3006-3015	2.3	5
29	Theoretical and experimental investigation of the shape memory properties of an ionic polymer-metal composite. <i>Smart Materials and Structures</i> , 2017 , 26, 045020	3.4	3
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27	A novel multifunctional soft robotic transducer made with poly (ethylene-co-methacrylic acid) ionomer metal nanocomposite. <i>International Journal of Intelligent Robotics and Applications</i> , 2017 , 1, 143-156	1.7	5
26	Patient cloth with motion recognition sensors based on flexible piezoelectric materials. <i>Annual International Conference of the IEEE Engineering in Medicine and Biology Society IEEE Engineering in Medicine and Biology Society Annual International Conference</i> , 2017 , 2017, 2410-2413	0.9	
25	Patient Posture Monitoring System Based on Flexible Sensors. <i>Sensors</i> , 2017 , 17,	3.8	26
24	Modelling and Analysis of Ionic Polymer Metal Composite based Energy Harvester. <i>Materials Today: Proceedings</i> , 2018 , 5, 19815-19827	1.4	3
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22	Improve the Performance of Mechanoelectrical Transduction of Ionic Polymer-Metal Composites Based on Ordered Nafion Nanofibres by Electrospinning. <i>Polymers</i> , 2018 , 10,	4.5	6
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9	Energy harvesting from torsions of patterned piezoelectrics. 2018 ,		
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6	Trends of Nafion-based IPMC Application and Development. <i>Ceramist</i> , 2020 , 23, 16-26	0.3	1
5	Harvesting Energy From an Ionic Polymer/Metal Composite in a Steady Air Flow. <i>Journal of Fluids Engineering, Transactions of the ASME</i> , 2020 , 142,	2.1	0
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