

# Qi Shen

## List of Publications by Citations

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**Version:** 2024-04-25

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The third column is the impact factor (IF) of the journal, and the fourth column is the number of citations of the article.

16  
papers

269  
citations

9  
h-index

16  
g-index

19  
ext. papers

340  
ext. citations

2.5  
avg, IF

3.18  
L-index

#	Paper	IF	Citations
16	A multiple-shape memory polymer-metal composite actuator capable of programmable control, creating complex 3D motion of bending, twisting, and oscillation. <i>Scientific Reports</i> , <b>2016</b> , 6, 24462	4.9	67
15	Hydrodynamic performance of a biomimetic robotic swimmer actuated by ionic polymer-metal composite. <i>Smart Materials and Structures</i> , <b>2013</b> , 22, 075035	3.4	48
14	A biomimetic underwater vehicle actuated by waves with ionic polymer-metal composite soft sensors. <i>Bioinspiration and Biomimetics</i> , <b>2015</b> , 10, 055007	2.6	24
13	Electrode of ionic polymer-metal composite sensors: Modeling and experimental investigation. <i>Journal of Applied Physics</i> , <b>2014</b> , 115, 194902	2.5	21
12	A comprehensive physics-based model encompassing variable surface resistance and underlying physics of ionic polymer-metal composite actuators. <i>Journal of Applied Physics</i> , <b>2015</b> , 118, 124904	2.5	21
11	Promising Developments in Marine Applications With Artificial Muscles: Electrodeless Artificial Cilia Microfibers. <i>Marine Technology Society Journal</i> , <b>2016</b> , 50, 24-34	0.5	17
10	On the thrust performance of an ionic polymer-metal composite actuated robotic fish: Modeling and experimental investigation. <i>Science China Technological Sciences</i> , <b>2012</b> , 55, 3359-3369	3.5	16
9	Modelling and Fuzzy Control of an Efficient Swimming Ionic Polymer-Metal Composite Actuated Robot. <i>International Journal of Advanced Robotic Systems</i> , <b>2013</b> , 10, 350	1.4	16
8	A robotic multiple-shape-memory ionic polymer-metal composite (IPMC) actuator: modeling approach. <i>Smart Materials and Structures</i> , <b>2019</b> , 28, 015009	3.4	12
7	Basic design of a biomimetic underwater soft robot with switchable swimming modes and programmable artificial muscles. <i>Smart Materials and Structures</i> , <b>2020</b> , 29, 035038	3.4	9
6	Bioinspired travelling wave generation in soft-robotics using ionic polymer-metal composites. <i>International Journal of Intelligent Robotics and Applications</i> , <b>2017</b> , 1, 167-179	1.7	9
5	Hydrodynamic Performance of an Undulatory Robot: Functional Roles of the Body and Caudal Fin Locomotion. <i>International Journal of Advanced Robotic Systems</i> , <b>2013</b> , 10, 5	1.4	4
4	Theoretical and experimental investigation of the shape memory properties of an ionic polymer-metal composite. <i>Smart Materials and Structures</i> , <b>2017</b> , 26, 045020	3.4	3
3	Modeling of a soft multiple-shape-memory ionic polymer-metal composite actuator <b>2017</b> ,		1
2	A novel method for investigating the kinematic effect on the hydrodynamics of robotic fish <b>2013</b> ,		1
1	Review on Improvement, Modeling, and Application of Ionic Polymer Metal Composite Artificial Muscle. <i>Journal of Bionic Engineering</i> , <b>2022</b> , 19, 279-298	2.7	0