

# Qi Shen

## List of Publications by Year in descending order

Source: <https://exaly.com/author-pdf/5770447/publications.pdf>

Version: 2024-02-01

19  
papers

415  
citations

758635

12  
h-index

996533

15  
g-index

19  
all docs

19  
docs citations

19  
times ranked

404  
citing authors

#	ARTICLE	IF	CITATIONS
1	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> , 2016, 6, 24462.	1.6	98
2	Hydrodynamic performance of a biomimetic robotic swimmer actuated by ionic polymer-metal composite. <i>Smart Materials and Structures</i> , 2013, 22, 075035.	1.8	67
3	A biomimetic underwater vehicle actuated by waves with ionic polymer-metal composite soft sensors. <i>Bioinspiration and Biomimetics</i> , 2015, 10, 055007.	1.5	36
4	A comprehensive physics-based model encompassing variable surface resistance and underlying physics of ionic polymer-metal composite actuators. <i>Journal of Applied Physics</i> , 2015, 118, .	1.1	29
5	Basic design of a biomimetic underwater soft robot with switchable swimming modes and programmable artificial muscles. <i>Smart Materials and Structures</i> , 2020, 29, 035038.	1.8	25
6	Electrode of ionic polymer-metal composite sensors: Modeling and experimental investigation. <i>Journal of Applied Physics</i> , 2014, 115, .	1.1	24
7	On the thrust performance of an ionic polymer-metal composite actuated robotic fish: Modeling and experimental investigation. <i>Science China Technological Sciences</i> , 2012, 55, 3359-3369.	2.0	23
8	Modelling and Fuzzy Control of an Efficient Swimming Ionic Polymer-Metal Composite Actuated Robot. <i>International Journal of Advanced Robotic Systems</i> , 2013, 10, 350.	1.3	21
9	Review on Improvement, Modeling, and Application of Ionic Polymer Metal Composite Artificial Muscle. <i>Journal of Bionic Engineering</i> , 2022, 19, 279-298.	2.7	21
10	Promising Developments in Marine Applications With Artificial Muscles: Electrodeless Artificial Cilia Microfibers. <i>Marine Technology Society Journal</i> , 2016, 50, 24-34.	0.3	20
11	A robotic multiple-shape-memory ionic polymer-metal composite (IPMC) actuator: modeling approach. <i>Smart Materials and Structures</i> , 2019, 28, 015009.	1.8	16
12	Bioinspired travelling wave generation in soft-robotics using ionic polymer-metal composites. <i>International Journal of Intelligent Robotics and Applications</i> , 2017, 1, 167-179.	1.6	14
13	Hydrodynamic Performance of an Undulatory Robot: Functional Roles of the Body and Caudal Fin Locomotion. <i>International Journal of Advanced Robotic Systems</i> , 2013, 10, 5.	1.3	12
14	Theoretical and experimental investigation of the shape memory properties of an ionic polymer-metal composite. <i>Smart Materials and Structures</i> , 2017, 26, 045020.	1.8	4
15	Modeling of a soft multiple-shape-memory ionic polymer-metal composite actuator. , 2017, , .		2
16	A novel method for investigating the kinematic effect on the hydrodynamics of robotic fish. , 2013, , .		1
17	Fluid flow sensing with ionic polymer-metal composites. <i>Proceedings of SPIE</i> , 2016, , .	0.8	1
18	Numerical and experimental investigation of a biomimetic robotic jellyfish actuated by Ionic Polymer-Metal Composite. , 2016, , .		1

#	ARTICLE	IF	CITATIONS
19	A physics model of the multi-degree freedom ionic polymer-metal composite cylinder actuator., 2016, ,		0