

# Qingsong He

## List of Publications by Year in descending order

Source: <https://exaly.com/author-pdf/3721836/publications.pdf>

Version: 2024-02-01

30  
papers

541  
citations

566801

15  
h-index

676716

22  
g-index

30  
all docs

30  
docs citations

30  
times ranked

512  
citing authors

#	ARTICLE	IF	CITATIONS
1	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
2	Ionic polymer metal composites actuators with enhanced driving performance by incorporating graphene quantum dots. <i>Journal of Central South University</i> , 2022, 29, 1412-1422.	1.2	6
3	PVC gel bio-inspired adhesives with variable modulus and its application in a gripper. <i>Journal of Central South University</i> , 2022, 29, 1778-1787.	1.2	2
4	Printing ionic polymer metal composite actuators by fused deposition modeling technology. <i>International Journal of Smart and Nano Materials</i> , 2021, 12, 218-231.	2.0	11
5	Axial Motion Characterization of a Helical Ionic Polymer Metal Composite Actuator and Its Application in 3-DOF Micro-Parallel Platforms. <i>Actuators</i> , 2021, 10, 248.	1.2	3
6	The square rod-shaped ionic polymer-metal composite and its application in interventional surgical guide device. <i>International Journal of Smart and Nano Materials</i> , 2020, 11, 159-172.	2.0	12
7	Influence of carbon dioxide plasma treatment on the dry adhesion of vertical aligned carbon nanotube arrays. <i>Nanotechnology</i> , 2020, 31, 345701.	1.3	8
8	The highly stable air-operating ionic polymer metal composite actuator with consecutive channels and its potential application in soft gripper. <i>Smart Materials and Structures</i> , 2020, 29, 045013.	1.8	25
9	Optimized Bio-inspired Micro-pillar Dry Adhesive and Its Application for an Unmanned Aerial Vehicle Adhering on and Detaching from a Ceiling. <i>Journal of Bionic Engineering</i> , 2020, 17, 45-54.	2.7	8
10	Motion Control of Capsule-like Underwater Robot Utilizing the Swing Properties of Ionic Polymer Metal Composite Actuators. <i>Journal of Bionic Engineering</i> , 2020, 17, 281-289.	2.7	18
11	Aggregation-Caused Quenching-Type Naphthalimide Fluorophores Grafted and Ionized in a 3D Polymeric Hydrogel Network for Highly Fluorescent and Locally Tunable Emission. <i>ACS Macro Letters</i> , 2019, 8, 937-942.	2.3	63
12	A Compact Review of IPMC as Soft Actuator and Sensor: Current Trends, Challenges, and Potential Solutions From Our Recent Work. <i>Frontiers in Robotics and AI</i> , 2019, 6, 129.	2.0	34
13	The Effects of Dimensions on the Deformation Sensing Performance of Ionic Polymer-Metal Composites. <i>Sensors</i> , 2019, 19, 2104.	2.1	21
14	Mechanoelectric transduction of ionic polymer-graphene composite sensor with ionic liquid as electrolyte. <i>Sensors and Actuators A: Physical</i> , 2019, 286, 68-77.	2.0	27
15	High-performance ionic polymer-metal composite actuators fabricated with microneedle roughening. <i>Smart Materials and Structures</i> , 2019, 28, 015007.	1.8	13
16	The effects of radio-frequency CF <sub>4</sub> plasma on adhesion properties of vertically aligned carbon nanotube arrays. <i>Carbon</i> , 2019, 142, 592-598.	5.4	21
17	Effects of Cu <sup>2+</sup> Counter Ions on the Actuation Performance of Flexible Ionic Polymer Metal Composite Actuators. <i>Journal of Bionic Engineering</i> , 2018, 15, 1047-1056.	2.7	6
18	Biomimetic Actuation and Artificial Muscle. <i>Applied Bionics and Biomechanics</i> , 2018, 2018, 1-2.	0.5	1

#	ARTICLE	IF	CITATIONS
19	Advanced electro-active dry adhesive actuated by an artificial muscle constructed from an ionic polymer metal composite reinforced with nitrogen-doped carbon nanocages. <i>Journal of Bionic Engineering</i> , 2017, 14, 567-578.	2.7	28
20	Fabrication, characteristics and electrical model of an ionic polymer metal-carbon nanotube composite. <i>Smart Materials and Structures</i> , 2015, 24, 075001.	1.8	14
21	An ionic electro-active actuator made with graphene film electrode, chitosan and ionic liquid. <i>Smart Materials and Structures</i> , 2015, 24, 065026.	1.8	25
22	Modeling of IPMC Cantilever's Displacements and Blocking Forces. <i>Journal of Bionic Engineering</i> , 2015, 12, 142-151.	2.7	22
23	Adhesion characteristics of a novel synthetic polydimethylsiloxane for bionic adhesive pads. <i>Journal of Bionic Engineering</i> , 2014, 11, 371-377.	2.7	13
24	Significantly Enhanced Actuation Performance of IPMC by Surfactant-Assisted Processable MWCNT/Nafion Composite. <i>Journal of Bionic Engineering</i> , 2013, 10, 359-367.	2.7	22
25	Electromechanical performance of an ionic polymer-metal composite actuator with hierarchical surface texture. <i>Smart Materials and Structures</i> , 2013, 22, 055001.	1.8	14
26	Efficient active actuation to imitate locomotion of gecko's toes using an ionic polymer-metal composite actuator enhanced by carbon nanotubes. <i>Applied Physics Letters</i> , 2012, 101, .	1.5	16
27	Investigation of Ionic Polymer Metal Composite Actuators Loaded with Various Tetraethyl Orthosilicate Contents. <i>Journal of Bionic Engineering</i> , 2012, 9, 75-83.	2.7	9
28	Force optimization of ionic polymer metal composite actuators by an orthogonal array method. <i>Science Bulletin</i> , 2011, 56, 2061-2070.	1.7	8
29	Experimental study and model analysis of the performance of IPMC Membranes with various thickness. <i>Journal of Bionic Engineering</i> , 2011, 8, 77-85.	2.7	52
30	Hybrids perfluorosulfonic acid ionomer and silicon oxide membrane for application in ion-exchange polymer-metal composite actuators. <i>Science in China Series D: Earth Sciences</i> , 2009, 52, 3061-3070.	0.9	18