Qingsong He

List of Publications by Year
in descending order

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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	Aggregation-Caused Quenching-Type Naphthalimide Fluorophores Grafted and Ionized in a 3D Polymeric Hydrogel Network for Highly Fluorescent and Locally Tunable Emission. ACS Macro Letters, 2019, 8, 937-942.	2.3	63
2	Experimental study and model analysis of the performance of IPMC Membranes with various thickness. Journal of Bionic Engineering, 2011, 8, 77-85.	2.7	52
3	A Compact Review of IPMC as Soft Actuator and Sensor: Current Trends, Challenges, and Potential Solutions From Our Recent Work. Frontiers in Robotics and AI, 2019, 6, 129.	2.0	34
4	Advanced electro-active dry adhesive actuated by an artificial muscle constructed from an ionic polymer metal composite reinforced with nitrogen-doped carbon nanocages. Journal of Bionic Engineering, 2017, 14, 567-578.	2.7	28
5	Mechanoelectric transduction of ionic polymer-graphene composite sensor with ionic liquid as electrolyte. Sensors and Actuators A: Physical, 2019, 286, 68-77.	2.0	27
6	An ionic electro-active actuator made with graphene film electrode, chitosan and ionic liquid. Smart Materials and Structures, 2015, 24, 065026.	1.8	25
7	The highly stable air-operating ionic polymer metal composite actuator with consecutive channels and its potential application in soft gripper. Smart Materials and Structures, 2020, 29, 045013.	1.8	25
8	Significantly Enhanced Actuation Performance of IPMC by Surfactant-Assisted Processable MWCNT/Nafion Composite. Journal of Bionic Engineering, 2013, 10, 359-367.	2.7	22
9	Modeling of IPMC Cantileverâ€™s Displacements and Blocking Forces. Journal of Bionic Engineering, 2015, 12, 142-151.	2.7	22
10	The Effects of Dimensions on the Deformation Sensing Performance of Ionic Polymer-Metal Composites. Sensors, 2019, 19, 2104.	2.1	21
11	The effects of radio-frequency CF4 plasma on adhesion properties of vertically aligned carbon nanotube arrays. Carbon, 2019, 142, 592-598.	5.4	21
12	Review on Improvement, Modeling, and Application of Ionic Polymer Metal Composite Artificial Muscle. Journal of Bionic Engineering, 2022, 19, 279-298.	2.7	21
13	Hybrids perfluorosulfonic acid ionomer and silicon oxide membrane for application in ion-exchange polymer-metal composite actuators. Science in China Series D: Earth Sciences, 2009, 52, 3061-3070.	0.9	18
14	Motion Control of Capsule-like Underwater Robot Utilizing the Swing Properties of Ionic Polymer Metal Composite Actuators. Journal of Bionic Engineering, 2020, 17, 281-289.	2.7	18
15	Efficient active actuation to imitate locomotion of gecko's toes using an ionic polymer-metal composite actuator enhanced by carbon nanotubes. Applied Physics Letters, 2012, 101, .	1.5	16
16	Electromechanical performance of an ionic polymerâ€“metal composite actuator with hierarchical surface texture. Smart Materials and Structures, 2013, 22, 055001.	1.8	14
17	Fabrication, characteristics and electrical model of an ionic polymer metal-carbon nanotube composite. Smart Materials and Structures, 2015, 24, 075001.	1.8	14
18	Adhesion characteristics of a novel synthetic polydimethylsiloxane for bionic adhesive pads. Journal of Bionic Engineering, 2014, 11, 371-377.	2.7	13

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19	High-performance ionic polymerâ€“metal composite actuators fabricated with microneedle roughening. Smart Materials and Structures, 2019, 28, 015007.	1.8	13
20	The square rod-shaped ionic polymer-metal composite and its application in interventional surgical guide device. International Journal of Smart and Nano Materials, 2020, 11, 159-172.	2.0	12
21	Printing ionic polymer metal composite actuators by fused deposition modeling technology. International Journal of Smart and Nano Materials, 2021, 12, 218-231.	2.0	11
22	Investigation of Ionic Polymer Metal Composite Actuators Loaded with Various Tetraethyl Orthosilicate Contents. Journal of Bionic Engineering, 2012, 9, 75-83.	2.7	9
23	Force optimization of ionic polymer metal composite actuators by an orthogonal array method. Science Bulletin, 2011, 56, 2061-2070.	1.7	8
24	Influence of carbon dioxide plasma treatment on the dry adhesion of vertical aligned carbon nanotube arrays. Nanotechnology, 2020, 31, 345701.	1.3	8
25	Optimized Bio-inspired Micro-pillar Dry Adhesive and Its Application for an Unmanned Aerial Vehicle Adhering on and Detaching from a Ceiling. Journal of Bionic Engineering, 2020, 17, 45-54.	2.7	8
26	Effects of Cu2+ Counter Ions on the Actuation Performance of Flexible Ionic Polymer Metal Composite Actuators. Journal of Bionic Engineering, 2018, 15, 1047-1056.	2.7	6
27	Ionic polymer metal composites actuators with enhanced driving performance by incorporating graphene quantum dots. Journal of Central South University, 2022, 29, 1412-1422.	1.2	6
28	Axial Motion Characterization of a Helical Ionic Polymer Metal Composite Actuator and Its Application in 3-DOF Micro-Parallel Platforms. Actuators, 2021, 10, 248.	1.2	3
29	PVC gel bio-inspired adhesives with variable modulus and its application in a gripper. Journal of Central South University, 2022, 29, 1778-1787.	1.2	2
30	Biomimetic Actuation and Artificial Muscle. Applied Bionics and Biomechanics, 2018, 2018, 1-2.	0.5	1