

Gang Zhao

List of Publications by Year in descending order

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251
citing authors

#	ARTICLE	IF	CITATIONS
1	Experimental and numerical investigation on drag reduction of non-smooth bionic jet surface. Ocean Engineering, 2014, 81, 50-57.	4.3	47
2	Chitosan-based polymer gel paper actuators coated with multi-wall carbon nanotubes and MnO ₂ composite electrode. Cellulose, 2017, 24, 4383-4392.	4.9	37
3	Environmental regulations, green innovation and intelligent upgrading of manufacturing enterprises: evidence from China. Scientific Reports, 2020, 10, 14485.	3.3	32
4	A naturally crosslinked chitosan based ionic actuator with cathode deflection phenomenon. Cellulose, 2017, 24, 441-445.	4.9	24
5	Bidisperse Magnetic Particles Coated with Gelatin and Graphite Oxide: Magnetorheology, Dispersion Stability, and the Nanoparticle-Enhancing Effect. Nanomaterials, 2018, 8, 714.	4.1	19
6	Development of biocompatible polymer actuator consisting of biopolymer chitosan, carbon nanotubes, and an ionic liquid. Polymer Composites, 2017, 38, 1609-1615.	4.6	18
7	Investigation into a Conductive Composite Matrix Based on Magnetically Sensitive Flexible Sponges. Industrial & Engineering Chemistry Research, 2020, 59, 15967-15978.	3.7	14
8	Experimental study of drag reduction characteristics related to the multifactor coupling of a bionic jet surface. Journal of Hydrodynamics, 2019, 31, 186-194.	3.2	13
9	Investigation into the actuating properties of ionic polymer metal composites using various electrolytes. Ionics, 2015, 21, 1577-1586.	2.4	11
10	Electrochemical properties of a highly biocompatible chitosan polymer actuator based on a different nanocarbon/ionic liquid electrode. Polymer Composites, 2017, 38, 2395-2401.	4.6	9
11	Simulation of a bidisperse magnetorheological fluid using the combination of a two-component lattice Boltzmann method and a discrete element approach. Soft Matter, 2019, 15, 6867-6877.	2.7	9
12	Characteristics of seal shell body's rubber ring with bionic dimpled surfaces of aerodynamic extinguishing cannon. Journal of Central South University, 2013, 20, 3065-3076.	3.0	7
13	Free Vibration Analysis of Moderately Thick Orthotropic Functionally Graded Plates with General Boundary Restraints. Materials, 2018, 11, 273.	2.9	7
14	Bending force enhancement of sodium alginate-based polymer gel paper actuators. Cellulose, 2019, 26, 7809-7822.	4.9	7
15	Investigation on electromechanical properties of a muscle-like linear actuator fabricated by bi-film ionic polymer metal composites. Applied Physics A: Materials Science and Processing, 2017, 123, 1.	2.3	6
16	Fabrication process and enhanced electromechanical properties of the muscle-like gel actuator doped with glycerol. Materials Research Express, 2018, 5, 095701.	1.6	6
17	Fabrication and applied investigation of a muscle-like linear actuator using ionic polymer metal composites. Polymer Composites, 2017, 38, 147-156.	4.6	5
18	Forecast for Artificial Muscle Tremor Behavior Based on Dynamic Additional Grey Catastrophe Prediction. Applied Sciences (Switzerland), 2018, 8, 315.	2.5	5

#	ARTICLE	IF	CITATIONS
19	Combination mechanism investigation on the muscle-like linear actuator using ionic polymer metal composites. <i>Polymer Composites</i> , 2017, 38, 479-488.	4.6	4
20	Investigation into Effects of Membrane Thickness on Electromechanical Properties of Biopolymer Chitosan-Based Electroactive Paper. <i>Polymer-Plastics Technology and Engineering</i> , 2018, 57, 690-699.	1.9	4
21	Bionic structure of shark's gill jet orifice based on artificial muscle. <i>Journal of Central South University</i> , 2018, 25, 855-865.	3.0	4
22	Investigation into the Output Force Characteristics of an Electric Actuator Based on Sodium Alginate and Polyvinyl Alcohol. <i>Industrial & Engineering Chemistry Research</i> , 2021, 60, 15566-15574.	3.7	4
23	Investigation into Morphology Characterization of Various Surface Electrode of Biopolymer Actuator: Ionic Polymer Metal Composites. <i>Advances in Polymer Technology</i> , 2018, 37, 913-921.	1.7	3
24	An enhancement for actuation properties of biocompatible electroactive paper. <i>Polymer Composites</i> , 2018, 39, E228.	4.6	3
25	Effect of doping nanoparticles on the output force performance of chitosan-based nanocomposite gel actuator. <i>Polymer-Plastics Technology and Materials</i> , 2019, 58, 967-977.	1.3	3
26	Fabrication of Bionic Linear Actuator and Application Study Based on 3D Printing. <i>Journal of Biomimetics, Biomaterials and Biomedical Engineering</i> , 2016, 26, 13-18.	0.5	2
27	Decision Making for Principal-Agent Contracts in Intelligent Customization for New Energy Equipment. <i>Mathematical Problems in Engineering</i> , 2019, 2019, 1-15.	1.1	2
28	A Modeling Method of Cylindrical Turning Processing Behavior. <i>International Journal of Circuits, Systems and Signal Processing</i> , 2021, 14, 1089-1095.	0.3	2
29	Production, deformation and magnetorheological characteristics of the alginate/chitosan hydrogel magnetic microspheres. <i>Journal of Intelligent Material Systems and Structures</i> , 2022, 33, 1527-1537.	2.5	2
30	Analysis of Characteristics and Applications of IPMC Material Using Nafion Membrane. <i>Applied Mechanics and Materials</i> , 0, 461, 342-346.	0.2	1
31	Effect of Bionic Concave Surface to the Drag Reduction Performance of Cylinder Sealing Ring. <i>Advanced Materials Research</i> , 2014, 1055, 152-156.	0.3	1
32	Actuation Properties Investigation: A Muscle like Linear Actuator Based on Biopolymer Material: Ionic Polymer Metal Composites. <i>Journal of Biomimetics, Biomaterials and Biomedical Engineering</i> , 2015, 25, 19-24.	0.5	1
33	Vibration Analysis of Laminated Composite Rectangular Plates With General Boundary Conditions. , 2018, , .		1
34	Heat generation and side milling stability of titanium alloy. <i>Thermal Science</i> , 2020, 24, 4033-4040.	1.1	1
35	Influence on Drag Reduction Characteristics of Jet Hole Shape on Bionic Shark Gill Surface. , 2014, , .		0
36	Experiment Research on Hot-Rolling Processing of Nonsmooth Pit Surface. <i>Applied Bionics and Biomechanics</i> , 2016, 2016, 1-10.	1.1	0

#	ARTICLE	IF	CITATIONS
37	Effects of chemical plating time on the electromechanical properties of ionic polymer metal composites. Journal of Polymer Engineering, 2016, 36, 449-455.	1.4	0
38	Investigation of a Biocompatible Artificial Muscle Based on Different Electrolyte Additive. Journal of Biomimetics, Biomaterials and Biomedical Engineering, 2016, 29, 9-13.	0.5	0
39	Investigation into the bending force performance of the Chitosan based electric actuator manufactured by freeze-drying. Materials Research Express, 2019, 6, 035701.	1.6	0