

# Gang Zhao

## List of Publications by Year in descending order

Source: <https://exaly.com/author-pdf/4955555/publications.pdf>

Version: 2024-02-01

39  
papers

314  
citations

1039406

9  
h-index

940134

16  
g-index

39  
all docs

39  
docs citations

39  
times ranked

251  
citing authors

#	ARTICLE	IF	CITATIONS
1	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.	1.4	2
2	A Modeling Method of Cylindrical Turning Processing Behavior. <i>International Journal of Circuits, Systems and Signal Processing</i> , 2021, 14, 1089-1095.	0.2	2
3	Investigation into the Output Force Characteristics of an Electric Actuator Based on Sodium Alginate and Polyvinyl Alcohol. <i>Industrial &amp; Engineering Chemistry Research</i> , 2021, 60, 15566-15574.	1.8	4
4	Investigation into a Conductive Composite Matrix Based on Magnetically Sensitive Flexible Sponges. <i>Industrial &amp; Engineering Chemistry Research</i> , 2020, 59, 15967-15978.	1.8	14
5	Environmental regulations, green innovation and intelligent upgrading of manufacturing enterprises: evidence from China. <i>Scientific Reports</i> , 2020, 10, 14485.	1.6	32
6	Heat generation and side milling stability of titanium alloy. <i>Thermal Science</i> , 2020, 24, 4033-4040.	0.5	1
7	Simulation of a bidisperse magnetorheological fluid using the combination of a two-component lattice Boltzmann method and a discrete element approach. <i>Soft Matter</i> , 2019, 15, 6867-6877.	1.2	9
8	Bending force enhancement of sodium alginate-based polymer gel paper actuators. <i>Cellulose</i> , 2019, 26, 7809-7822.	2.4	7
9	Decision Making for Principal-Agent Contracts in Intelligent Customization for New Energy Equipment. <i>Mathematical Problems in Engineering</i> , 2019, 2019, 1-15.	0.6	2
10	Investigation into the bending force performance of the Chitosan based electric actuator manufactured by freeze-drying. <i>Materials Research Express</i> , 2019, 6, 035701.	0.8	0
11	Experimental study of drag reduction characteristics related to the multifactor coupling of a bionic jet surface. <i>Journal of Hydrodynamics</i> , 2019, 31, 186-194.	1.3	13
12	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.	0.6	3
13	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.	0.8	3
14	An enhancement for actuation properties of biocompatible electroactive paper. <i>Polymer Composites</i> , 2018, 39, E228.	2.3	3
15	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
16	Forecast for Artificial Muscle Tremor Behavior Based on Dynamic Additional Grey Catastrophe Prediction. <i>Applied Sciences (Switzerland)</i> , 2018, 8, 315.	1.3	5
17	Vibration Analysis of Laminated Composite Rectangular Plates With General Boundary Conditions. , 2018, , .		1
18	Bidisperse Magnetic Particles Coated with Gelatin and Graphite Oxide: Magnetorheology, Dispersion Stability, and the Nanoparticle-Enhancing Effect. <i>Nanomaterials</i> , 2018, 8, 714.	1.9	19

#	ARTICLE	IF	CITATIONS
19	Fabrication process and enhanced electromechanical properties of the muscle-like gel actuator doped with glycerol. <i>Materials Research Express</i> , 2018, 5, 095701.	0.8	6
20	Free Vibration Analysis of Moderately Thick Orthotropic Functionally Graded Plates with General Boundary Restraints. <i>Materials</i> , 2018, 11, 273.	1.3	7
21	Bionic structure of shark's gill jet orifice based on artificial muscle. <i>Journal of Central South University</i> , 2018, 25, 855-865.	1.2	4
22	Combination mechanism investigation on the muscle-like linear actuator using ionic polymer metal composites. <i>Polymer Composites</i> , 2017, 38, 479-488.	2.3	4
23	Fabrication and applied investigation of a muscle-like linear actuator using ionic polymer metal composites. <i>Polymer Composites</i> , 2017, 38, 147-156.	2.3	5
24	Development of biocompatible polymer actuator consisting of biopolymer chitosan, carbon nanotubes, and an ionic liquid. <i>Polymer Composites</i> , 2017, 38, 1609-1615.	2.3	18
25	Electrochemical properties of a highly biocompatible chitosan polymer actuator based on a different nanocarbon/ionic liquid electrode. <i>Polymer Composites</i> , 2017, 38, 2395-2401.	2.3	9
26	A naturally crosslinked chitosan based ionic actuator with cathode deflection phenomenon. <i>Cellulose</i> , 2017, 24, 441-445.	2.4	24
27	Chitosan-based polymer gel paper actuators coated with multi-wall carbon nanotubes and MnO <sub>2</sub> composite electrode. <i>Cellulose</i> , 2017, 24, 4383-4392.	2.4	37
28	Investigation on electromechanical properties of a muscle-like linear actuator fabricated by bi-film ionic polymer metal composites. <i>Applied Physics A: Materials Science and Processing</i> , 2017, 123, 1.	1.1	6
29	Experiment Research on Hot-Rolling Processing of Nonsmooth Pit Surface. <i>Applied Bionics and Biomechanics</i> , 2016, 2016, 1-10.	0.5	0
30	Effects of chemical plating time on the electromechanical properties of ionic polymer metal composites. <i>Journal of Polymer Engineering</i> , 2016, 36, 449-455.	0.6	0
31	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
32	Investigation of a Biocompatible Artificial Muscle Based on Different Electrolyte Additive. <i>Journal of Biomimetics, Biomaterials and Biomedical Engineering</i> , 2016, 29, 9-13.	0.5	0
33	Investigation into the actuating properties of ionic polymer metal composites using various electrolytes. <i>Ionics</i> , 2015, 21, 1577-1586.	1.2	11
34	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
35	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
36	Experimental and numerical investigation on drag reduction of non-smooth bionic jet surface. <i>Ocean Engineering</i> , 2014, 81, 50-57.	1.9	47

#	ARTICLE	IF	CITATIONS
37	Influence on Drag Reduction Characteristics of Jet Hole Shape on Bionic Shark Gill Surface. , 2014, , .		0
38	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.	1.2	7
39	Analysis of Characteristics and Applications of IPMC Material Using Nafion Membrane. Applied Mechanics and Materials, 0, 461, 342-346.	0.2	1