

# Junshi Zhang

## List of Publications by Year in descending order

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26  
papers

458  
citations

759233

12  
h-index

713466

21  
g-index

26  
all docs

26  
docs citations

26  
times ranked

309  
citing authors

#	ARTICLE	IF	CITATIONS
1	Viscoelastic creep and relaxation of dielectric elastomers characterized by a Kelvin-Voigt-Maxwell model. <i>Applied Physics Letters</i> , 2017, 110, .	3.3	68
2	Coupled nonlinear oscillation and stability evolution of viscoelastic dielectric elastomers. <i>Soft Matter</i> , 2015, 11, 7483-7493.	2.7	46
3	Experimental study on the dynamic response of in-plane deformation of dielectric elastomer under alternating electric load. <i>Smart Materials and Structures</i> , 2014, 23, 025037.	3.5	40
4	Modeling of the dynamic characteristic of viscoelastic dielectric elastomer actuators subject to different conditions of mechanical load. <i>Journal of Applied Physics</i> , 2015, 117, .	2.5	40
5	Dissipative performance of dielectric elastomers under various voltage waveforms. <i>Soft Matter</i> , 2016, 12, 2348-2356.	2.7	30
6	Method to Control Dynamic Snap-Through Instability of Dielectric Elastomers. <i>Physical Review Applied</i> , 2016, 6, .	3.8	27
7	Voltage-induced beating vibration of a dielectric elastomer membrane. <i>Nonlinear Dynamics</i> , 2020, 100, 2225-2239.	5.2	26
8	Nonlinear Dynamical Model of a Soft Viscoelastic Dielectric Elastomer. <i>Physical Review Applied</i> , 2017, 8, .	3.8	21
9	Dynamic analyses of viscoelastic dielectric elastomers incorporating viscous damping effect. <i>Smart Materials and Structures</i> , 2017, 26, 015010.	3.5	19
10	Controllable and durable ionic electroactive polymer actuator based on nanoporous carbon nanotube film electrode. <i>Smart Materials and Structures</i> , 2019, 28, 085032.	3.5	15
11	Modeling nonlinear dynamic properties of dielectric elastomers with various crosslinks, entanglements, and finite deformations. <i>Journal of Applied Physics</i> , 2018, 123, .	2.5	13
12	Pinnacle elimination and stability analyses in nonlinear oscillation of soft dielectric elastomer slide actuators. <i>Nonlinear Dynamics</i> , 2018, 94, 1907-1920.	5.2	13
13	Ambient humidity altering electromechanical actuation of dielectric elastomers. <i>Applied Physics Letters</i> , 2019, 115, .	3.3	12
14	A bio-inspired soft-rigid hybrid actuator made of electroactive dielectric elastomers. <i>Applied Materials Today</i> , 2020, 21, 100814.	4.3	12
15	Temperature effect on electromechanical properties of polyacrylic dielectric elastomer: an experimental study. <i>Smart Materials and Structures</i> , 2020, 29, 047002.	3.5	11
16	Modeling of humidity effect on electromechanical properties of viscoelastic dielectric elastomer. <i>International Journal of Mechanical Sciences</i> , 2021, 193, 106177.	6.7	11
17	Stiffness-tunable robotic gripper driven by dielectric elastomer composite actuators. <i>Smart Materials and Structures</i> , 2020, 29, 125013.	3.5	10
18	Modeling and experimental study on dielectric elastomers incorporating humidity effect. <i>Europhysics Letters</i> , 2020, 129, 57002.	2.0	7

#	ARTICLE	IF	CITATIONS
19	Electromechanical properties of soft dissipative dielectric elastomer actuators influenced by electrode thickness and conductivity. <i>Journal of Applied Physics</i> , 2020, 127, .	2.5	6
20	Humidity Effect on Dynamic Electromechanical Properties of Polyacrylic Dielectric Elastomer: An Experimental Study. <i>Polymers</i> , 2021, 13, 784.	4.5	6
21	Loss of tension in electromechanical actuation of fiber-constrained viscoelastic dielectric elastomers. <i>Europhysics Letters</i> , 2017, 117, 67004.	2.0	6
22	Fiber-reinforced soft polymeric manipulator with smart motion scaling and stiffness tunability. <i>Cell Reports Physical Science</i> , 2021, 2, 100600.	5.6	6
23	Electro-pneumatic dielectric elastomer actuator incorporating tunable bending stiffness. <i>Physical Review Research</i> , 2020, 2, .	3.6	5
24	Realizing pure shear mode of dielectric elastomers by tuning biaxial prestress of a deformation controller. <i>Smart Materials and Structures</i> , 2022, 31, 015016.	3.5	4
25	Leakage current and induced electrical energy dissipation in nonlinear oscillation of dielectric elastomer actuators. <i>Journal Physics D: Applied Physics</i> , 2017, 50, 365602.	2.8	3
26	Stimuli-Responsive Smart Polymers and Structures: Characteristics and Applications. <i>International Journal of Polymer Science</i> , 2018, 2018, 1-2.	2.7	1