

Junshi Zhang

List of Publications by Year in descending order

Source: <https://exaly.com/author-pdf/7585470/publications.pdf>

Version: 2024-02-01

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 | 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 |
| 2 | Modeling of humidity effect on electromechanical properties of viscoelastic dielectric elastomer. <i>International Journal of Mechanical Sciences</i> , 2021, 193, 106177. | 6.7 | 11 |
| 3 | Humidity Effect on Dynamic Electromechanical Properties of Polyacrylic Dielectric Elastomer: An Experimental Study. <i>Polymers</i> , 2021, 13, 784. | 4.5 | 6 |
| 4 | Fiber-reinforced soft polymeric manipulator with smart motion scaling and stiffness tunability. <i>Cell Reports Physical Science</i> , 2021, 2, 100600. | 5.6 | 6 |
| 5 | A bio-inspired soft-rigid hybrid actuator made of electroactive dielectric elastomers. <i>Applied Materials Today</i> , 2020, 21, 100814. | 4.3 | 12 |
| 6 | Voltage-induced beating vibration of a dielectric elastomer membrane. <i>Nonlinear Dynamics</i> , 2020, 100, 2225-2239. | 5.2 | 26 |
| 7 | 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 |
| 8 | Temperature effect on electromechanical properties of polyacrylic dielectric elastomer: an experimental study. <i>Smart Materials and Structures</i> , 2020, 29, 047002. | 3.5 | 11 |
| 9 | Modeling and experimental study on dielectric elastomers incorporating humidity effect. <i>Europhysics Letters</i> , 2020, 129, 57002. | 2.0 | 7 |
| 10 | Stiffness-tunable robotic gripper driven by dielectric elastomer composite actuators. <i>Smart Materials and Structures</i> , 2020, 29, 125013. | 3.5 | 10 |
| 11 | Electro-pneumatic dielectric elastomer actuator incorporating tunable bending stiffness. <i>Physical Review Research</i> , 2020, 2, . | 3.6 | 5 |
| 12 | Ambient humidity altering electromechanical actuation of dielectric elastomers. <i>Applied Physics Letters</i> , 2019, 115, . | 3.3 | 12 |
| 13 | 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 |
| 14 | 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 |
| 15 | 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 |
| 16 | Stimuli-Responsive Smart Polymers and Structures: Characteristics and Applications. <i>International Journal of Polymer Science</i> , 2018, 2018, 1-2. | 2.7 | 1 |
| 17 | Viscoelastic creep and relaxation of dielectric elastomers characterized by a Kelvin-Voigt-Maxwell model. <i>Applied Physics Letters</i> , 2017, 110, . | 3.3 | 68 |
| 18 | Dynamic analyses of viscoelastic dielectric elastomers incorporating viscous damping effect. <i>Smart Materials and Structures</i> , 2017, 26, 015010. | 3.5 | 19 |

| # | ARTICLE | IF | CITATIONS |
|----|--|-----|-----------|
| 19 | Nonlinear Dynamical Model of a Soft Viscoelastic Dielectric Elastomer. <i>Physical Review Applied</i> , 2017, 8, . | 3.8 | 21 |
| 20 | 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 |
| 21 | Loss of tension in electromechanical actuation of fiber-constrained viscoelastic dielectric elastomers. <i>Europhysics Letters</i> , 2017, 117, 67004. | 2.0 | 6 |
| 22 | Method to Control Dynamic Snap-Through Instability of Dielectric Elastomers. <i>Physical Review Applied</i> , 2016, 6, . | 3.8 | 27 |
| 23 | Dissipative performance of dielectric elastomers under various voltage waveforms. <i>Soft Matter</i> , 2016, 12, 2348-2356. | 2.7 | 30 |
| 24 | 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 |
| 25 | Coupled nonlinear oscillation and stability evolution of viscoelastic dielectric elastomers. <i>Soft Matter</i> , 2015, 11, 7483-7493. | 2.7 | 46 |
| 26 | 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 |