List of Publications by Year in descending order

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| # | Article | IF | CITATIONS |
|----|---|------|-----------|
| 1 | 4D printing of shape memory polybutylene succinate/polylactic acid (PBS/PLA) and its potential applications. Composite Structures, 2022, 279, 114729. | 5.8 | 50 |
| 2 | 4D Pixel Mechanical Metamaterials with Programmable and Reconfigurable Properties. Advanced Functional Materials, 2022, 32, 2107795. | 14.9 | 34 |
| 3 | A phenomenological constitutive model for predicting both the moderate and large deformation behavior of elastomeric materials. Mechanics of Materials, 2022, 165, 104179. | 3.2 | 6 |
| 4 | Modified Yeoh model with improved equibiaxial loading predictions. Acta Mechanica, 2022, 233, 437-453. | 2.1 | 7 |
| 5 | 4D printed programmable shape memory left atrial appendage occlusion device. , 2022, , . | | 0 |
| 6 | 3D Printed Bioinspired Stents with Photothermal Effects for Malignant Colorectal Obstruction. Research, 2022, 2022, . | 5.7 | 5 |
| 7 | Compression behavior and energy absorption of 3D printed continuous fiber reinforced composite honeycomb structures with shape memory effects. Additive Manufacturing, 2021, 38, 101842. | 3.0 | 38 |
| 8 | Improved Carroll's hyperelastic model considering compressibility and its finite element implementation. Acta Mechanica Sinica/Lixue Xuebao, 2021, 37, 785-796. | 3.4 | 6 |
| 9 | Thermoelectromechanical instability of dielectric elastomer undergoes polarization saturation and temperature variation. Acta Mechanica Sinica/Lixue Xuebao, 2021, 37, 414-421. | 3.4 | 4 |
| 10 | Analysis of small-scale topology and macroscale mechanical properties of shape memory chiral-lattice metamaterials. Composite Structures, 2021, 262, 113569. | 5.8 | 18 |
| 11 | Prediction of effective thermomechanical behavior of shape memory polymer composite with micro-damage interface. Composites Communications, 2021, 25, 100727. | 6.3 | 9 |
| 12 | Review of Dielectric Elastomer Actuators and Their Applications in Soft Robots. Advanced Intelligent Systems, 2021, 3, 2000282. | 6.1 | 111 |
| 13 | Recent developments in next-generation occlusion devices. Acta Biomaterialia, 2021, 128, 100-119. | 8.3 | 21 |
| 14 | Manufacture and investigation on the shape memory polymer composite subsidy pipe. Composite Structures, 2021, 274, 114331. | 5.8 | 2 |
| 15 | 4D Printing of Bioinspired Absorbable Left Atrial Appendage Occluders: A Proof-of-Concept Study. ACS Applied Materials & Interfaces, 2021, 13, 12668-12678. | 8.0 | 60 |
| 16 | A review on material models for isotropic hyperelasticity. International Journal of Mechanical System Dynamics, 2021, 1, 71-88. | 2.8 | 31 |
| 17 | Thermomechanical properties and deformation behavior of a unidirectional carbonâ€fiberâ€reinforced shape memory polymer composite laminate. Journal of Applied Polymer Science, 2020, 137, 48532. | 2.6 | 10 |
| 18 | Macroscale bending large-deformation and microbuckling behavior of a unidirectional fiber-reinforced soft composite. Journal of Composite Materials, 2020, 54, 243-257. | 2.4 | 5 |

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|----|---|------|-----------|
| 19 | Ultra-light release device integrated with screen-printed heaters for CubeSat's deployable solar arrays. Composite Structures, 2020, 232, 111561. | 5.8 | 22 |
| 20 | World's first spaceflight on-orbit demonstration of a flexible solar array system based on shape memory polymer composites. Science China Technological Sciences, 2020, 63, 1436-1451. | 4.0 | 45 |
| 21 | 4D Printing Auxetic Metamaterials with Tunable, Programmable, and Reconfigurable Mechanical Properties. Advanced Functional Materials, 2020, 30, 2004226. | 14.9 | 152 |
| 22 | Composite Piezoelectric Energy Harvesters with Symmetric Angleâ€Ply Stacking Sequences and Variable Throughâ€theâ€Thickness Poisson's Ratios. Physica Status Solidi (B): Basic Research, 2020, 257, 1900689. | 1.5 | 2 |
| 23 | On 4D printing as a revolutionary fabrication technique for smart structures. Smart Materials and Structures, 2020, 29, 083001. | 3.5 | 41 |
| 24 | Origami-inspired self-deployment 4D printed honeycomb sandwich structure with large shape transformation. Smart Materials and Structures, 2020, 29, 065015. | 3.5 | 41 |
| 25 | Micro and nanolattice fabrication using projection micro litho stereo exposure additive manufacturing techniques and synchrotron X-ray 3D imaging-based defect characterization. Science China Technological Sciences, 2020, 63, 561-570. | 4.0 | 2 |
| 26 | 4D printing of personalized shape memory polymer vascular stents with negative Poisson's ratio structure: A preliminary study. Science China Technological Sciences, 2020, 63, 578-588. | 4.0 | 88 |
| 27 | The compatibility of polylactic acid and polybutylene succinate blends by molecular and mesoscopic dynamics. International Journal of Smart and Nano Materials, 2020, 11, 24-37. | 4.2 | 28 |
| 28 | Damage and failure in carbon fiber-reinforced epoxy filament-wound shape memory polymer composite tubes under compression loading. Polymer Testing, 2020, 85, 106387. | 4.8 | 17 |
| 29 | Design, material properties and performances of a smart hinge based on shape memory polymer composites. Composites Part B: Engineering, 2020, 193, 108056. | 12.0 | 33 |
| 30 | Active composites based on shape memory polymers: overview, fabrication methods, applications, and future prospects. Journal of Materials Science, 2020, 55, 10975-11051. | 3.7 | 53 |
| 31 | Computational Model and Design of the Soft Tunable Lens Actuated by Dielectric Elastomer. Journal of Applied Mechanics, Transactions ASME, 2020, 87, . | 2.2 | 4 |
| 32 | Dielectric and Breakdown Properties of MWCNT- and OMMT-Reinforced Epoxy Composites. Journal of Electronic Materials, 2019, 48, 7270-7281. | 2.2 | 3 |
| 33 | A Biomimetic Soft Lens Controlled by Electrooculographic Signal. Advanced Functional Materials, 2019, 29, 1903762. | 14.9 | 50 |
| 34 | 4Dâ€Printed Biodegradable and Remotely Controllable Shape Memory Occlusion Devices. Advanced Functional Materials, 2019, 29, 1906569. | 14.9 | 171 |
| 35 | Delayed electromechanical instability of a viscoelastic dielectric elastomer balloon. Proceedings of the Royal Society A: Mathematical, Physical and Engineering Sciences, 2019, 475, 20190316. | 2.1 | 6 |
| 36 | Study of low earth orbit ultraviolet radiation and vacuum thermal cycling environment effects on epoxy-based shape memory polymer. Journal of Intelligent Material Systems and Structures, 2019, 30, 2688-2696. | 2.5 | 13 |

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|----|---|-----|-----------|
| 37 | Mechanical Models, Structures, and Applications of Shape-Memory Polymers and Their Composites. Acta Mechanica Solida Sinica, 2019, 32, 535-565. | 1.9 | 73 |
| 38 | Design and analysis of shockless smart releasing device based on shape memory polymer composites. Composite Structures, 2019, 223, 110958. | 5.8 | 19 |
| 39 | Shape memory polymers and their composites in biomedical applications. Materials Science and Engineering C, 2019, 97, 864-883. | 7.3 | 200 |
| 40 | Dielectric Elastomer Spring-Roll Bending Actuators: Applications in Soft Robotics and Design. Soft Robotics, 2019, 6, 69-81. | 8.0 | 71 |
| 41 | Bending shape recovery of unidirectional carbon fiber reinforced epoxy-based shape memory polymer composites. Composites Part A: Applied Science and Manufacturing, 2019, 116, 169-179. | 7.6 | 74 |
| 42 | Shape memory polymers for composites. Composites Science and Technology, 2018, 160, 169-198. | 7.8 | 211 |
| 43 | Effects of atomic oxygen on epoxy-based shape memory polymer in low earth orbit. Journal of Intelligent Material Systems and Structures, 2018, 29, 1081-1087. | 2.5 | 11 |
| 44 | Thermal, mechanical, and shapeâ€memory properties of nanorubberâ€toughened, epoxyâ€based shapeâ€memory nanocomposites. Journal of Applied Polymer Science, 2018, 135, 45780. | 2.6 | 12 |
| 45 | Thermomechanical and electroactive behavior of a thermosetting styreneâ€based carbon black shapeâ€memory composite. Journal of Applied Polymer Science, 2018, 135, 45978. | 2.6 | 11 |
| 46 | Conductive Shape Memory Microfiber Membranes with Core–Shell Structures and Electroactive Performance. ACS Applied Materials & Interfaces, 2018, 10, 35526-35532. | 8.0 | 52 |
| 47 | Shape retainability and reusability investigation of bottle-shaped SMP mandrel. Polymer Testing, 2018, 69, 325-331. | 4.8 | 10 |
| 48 | An E-shape broadband piezoelectric energy harvester induced by magnets. Journal of Intelligent Material Systems and Structures, 2018, 29, 2477-2491. | 2.5 | 11 |
| 49 | Integrative hinge based on shape memory polymer composites: Material, design, properties and application. Composite Structures, 2018, 206, 164-176. | 5.8 | 74 |
| 50 | Effects of accelerated aging on thermal, mechanical and shape memory properties of cyanate-based shape memory polymer: IÂvacuum ultraviolet radiation. Polymer Degradation and Stability, 2017, 138, 91-97. | 5.8 | 46 |
| 51 | Stimulus methods of multi-functional shape memory polymer nanocomposites: A review. Composites Part A: Applied Science and Manufacturing, 2017, 100, 20-30. | 7.6 | 167 |
| 52 | Strength property analysis for fiber-reinforced shape memory polymer composite laminate. Journal of Intelligent Material Systems and Structures, 2017, 28, 1627-1639. | 2.5 | 8 |
| 53 | Direct-Write Fabrication of 4D Active Shape-Changing Structures Based on a Shape Memory Polymer and Its Nanocomposite. ACS Applied Materials & amp; Interfaces, 2017, 9, 876-883. | 8.0 | 351 |
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Influence of the processing parameters on the electrocaloric effect of poly(vinylidene) Tj ETQq0 0 0 rgBT /Overlock $\frac{10}{2.0}$ Tf 50 $\frac{62}{2}$ Td (fluor

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| 55 | Modal Analyses of Deployable Truss Structures Based on Shape Memory Polymer Composites. International Journal of Applied Mechanics, 2016, 08, 1640009. | 2.2 | 24 |
| 56 | Preliminary design and analysis of a cubic deployable support structure based on shape memory polymer composite. International Journal of Smart and Nano Materials, 2016, 7, 106-118. | 4.2 | 25 |
| 57 | An electrical-heating and self-sensing shape memory polymer composite incorporated with carbon fiber felt. Smart Materials and Structures, 2016, 25, 035036. | 3.5 | 37 |
| 58 | Constitutive model for shape memory polymer based on the viscoelasticity and phase transition theories. Journal of Intelligent Material Systems and Structures, 2016, 27, 314-323. | 2.5 | 40 |
| 59 | Electric field induced variation of temperature and entropy in dielectric elastomers. Journal of Mechanical Science and Technology, 2015, 29, 109-114. | 1.5 | 7 |
| 60 | Shape memory polymer S-shaped mandrel for composite air duct manufacturing. Composite Structures, 2015, 133, 930-938. | 5.8 | 27 |
| 61 | Thermoelectromechanical stability of dielectric elastomers undergoing temperature variation. Mechanics of Materials, 2014, 72, 33-45. | 3.2 | 40 |
| 62 | Thermal mechanical constitutive model of fiber reinforced shape memory polymer composite: Based on bridging model. Composites Part A: Applied Science and Manufacturing, 2014, 64, 132-138. | 7.6 | 57 |
| 63 | Thermoviscoelastic shape memory behavior for epoxy-shape memory polymer. Smart Materials and Structures, 2014, 23, 055025. | 3.5 | 53 |
| 64 | Polar elastic dielectric of large electrocaloric effect and deformation. Mechanics of Materials, 2014, 69, 71-92. | 3.2 | 8 |
| 65 | Shape memory polymers and their composites in aerospace applications: a review. Smart Materials and Structures, 2014, 23, 023001. | 3.5 | 734 |
| 66 | Failure modeling of folded dielectric elastomer actuator. Science China: Physics, Mechanics and Astronomy, 2014, 57, 263-272. | 5.1 | 9 |
| 67 | Analysis and design of smart mandrels using shape memory polymers. Composites Part B: Engineering, 2014, 59, 230-237. | 12.0 | 55 |
| 68 | Post microbuckling mechanics of fibre-reinforced shape-memory polymers undergoing flexure deformation. Mechanics of Materials, 2014, 72, 46-60. | 3.2 | 55 |
| 69 | Theory progress and applications of dielectric elastomers. International Journal of Smart and Nano Materials, 2013, 4, 199-209. | 4.2 | 19 |
| 70 | Electromechanical instability and snap-through instability of dielectric elastomers undergoing polarization saturation. Mechanics of Materials, 2012, 55, 60-72. | 3.2 | 54 |
| 71 | Voltage-induced deformation in dielectric. Journal of Applied Physics, 2012, 112, 033519. | 2.5 | 13 |
| 72 | Effect of mechanical force field on the electromechanical stability of dielectric elastomers. Science China: Physics, Mechanics and Astronomy, 2012, 55, 94-101. | 5.1 | 5 |

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| 73 | Extension limit, polarization saturation, and snap-through instability of dielectric elastomers. International Journal of Smart and Nano Materials, 2011, 2, 59-67. | 4.2 | 66 |
| 74 | Electromechanical stability of semi-crystalline polymer. Thin Solid Films, 2011, 519, 5017-5021. | 1.8 | 9 |
| 75 | Theoretical investigation on polar dielectric with large electrocaloric effect as cooling devices. Applied Physics Letters, 2011, 99, . | 3.3 | 18 |
| 76 | Thermo-electro-mechanical instability of dielectric elastomers. Smart Materials and Structures, 2011, 20, 075004. | 3.5 | 31 |
| 77 | Electromechanical stability of compressible dielectric elastomer actuators. Smart Materials and Structures, 2011, 20, 115015. | 3.5 | 15 |
| 78 | Electromechanical stability of a Mooney–Rivlinâ€ŧype dielectric elastomer with nonlinear variable permittivity. Polymer International, 2010, 59, 371-377. | 3.1 | 35 |
| 79 | Electromechanical stability of electro-active silicone filled with high permittivity particles undergoing large deformation. Smart Materials and Structures, 2010, 19, 115025. | 3.5 | 22 |
| 80 | Analysis and manufacture of an energy harvester based on a Mooney-Rivlin–type dielectric elastomer. Europhysics Letters, 2010, 90, 36004. | 2.0 | 74 |
| 81 | Comment on "On electromechanical stability of dielectric elastomers―[Appl. Phys. Lett. 93, 101902 (2008)]. Applied Physics Letters, 2009, 94, 096101. | 3.3 | 24 |
| 82 | An investigation on electromechanical stability of dielectric elastomers undergoing large deformation. Smart Materials and Structures, 2009, 18, 095040. | 3.5 | 34 |
| 83 | Stability analysis of dielectric elastomer film actuator. Science in China Series D: Earth Sciences, 2009, 52, 2715-2723. | 0.9 | 25 |
| 84 | Electromechanical stability of dielectric elastomer. Applied Physics Letters, 2009, 94, . | 3.3 | 97 |
| 85 | Dielectric elastomer film actuators: characterization, experiment and analysis. Smart Materials and Structures, 2009, 18, 095024. | 3.5 | 76 |
| 86 | Comment on "Method to analyze electromechanical stability of dielectric elastomersâ€{Appl. Phys. Lett. 91, 061921 (2007)]. Applied Physics Letters, 2008, 93, . | 3.3 | 51 |