

Jin-Song Leng

List of Publications by Year in descending order

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287
papers

16,281
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15466

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293
docs citations

293
times ranked

8314
citing authors

#	ARTICLE	IF	CITATIONS
1	Shape Memory Polymer Fibers: Materials, Structures, and Applications. <i>Advanced Fiber Materials</i> , 2022, 4, 5-23.	7.9	46
2	4D printing of shape memory polybutylene succinate/polylactic acid (PBS/PLA) and its potential applications. <i>Composite Structures</i> , 2022, 279, 114729.	3.1	50
3	Investigation of the Long-Term Storage Stability of Shape Memory Epoxy Prepolymer. <i>Advanced Engineering Materials</i> , 2022, 24, 2101023.	1.6	3
4	4D Pixel Mechanical Metamaterials with Programmable and Reconfigurable Properties. <i>Advanced Functional Materials</i> , 2022, 32, 2107795.	7.8	34
5	Temperature-dependent mechanical response of 4D printed composite lattice structures reinforced by continuous fiber. <i>Composite Structures</i> , 2022, 280, 114952.	3.1	42
6	A phenomenological constitutive model for predicting both the moderate and large deformation behavior of elastomeric materials. <i>Mechanics of Materials</i> , 2022, 165, 104179.	1.7	6
7	Wavelength-selective responsive hybrid structures utilizing shape memory poly(aryl ether ketone). <i>European Polymer Journal</i> , 2022, 164, 110955.	2.6	5
8	Harnessing ultra-high programmability and controllability for smart composite architecture using quadruple shape memory poly(aryl ether ketone)s. <i>Composites Science and Technology</i> , 2022, 220, 109246.	3.8	5
9	Modified Yeoh model with improved equibiaxial loading predictions. <i>Acta Mechanica</i> , 2022, 233, 437-453.	1.1	7
10	Non-contact magnetic actuated shape-programmable poly(aryl ether ketone)s and their structural variation during the deformation process. <i>Smart Materials and Structures</i> , 2022, 31, 035035.	1.8	5
11	Smart Shape Memory Polyurethane with Photochromism and Mechanochromism Properties. <i>Macromolecular Materials and Engineering</i> , 2022, 307, .	1.7	10
12	Shape memory polymer foam: active deformation, simulation and validation of space environment. <i>Smart Materials and Structures</i> , 2022, 31, 035008.	1.8	11
13	Distributed sensing based real-time process monitoring of shape memory polymer components. <i>Journal of Applied Polymer Science</i> , 2022, 139, .	1.3	5
14	Programmable and reconfigurable hygro-thermo morphing materials with multifunctional shape transformation. <i>Applied Materials Today</i> , 2022, 27, 101414.	2.3	6
15	Thermal, mechanical and shape fixity behaviors of shape memory cyanate under $\hat{\Gamma}^3$ -ray radiation. <i>Smart Materials and Structures</i> , 2022, 31, 045010.	1.8	4
16	Shape memory poly (ether ether ketone)s with tunable chain stiffness, mechanical strength and high transition temperatures. <i>International Journal of Smart and Nano Materials</i> , 2022, 13, 1-16.	2.0	12
17	Shape Memory Epoxy Resin and Its Composites: From Materials to Applications. <i>Research</i> , 2022, 2022, 9767830.	2.8	27
18	Efficient voltage actuators based on rapid heat and electric dual-response poly(aryl ether ketone) shape memory composites reinforced with radially aligned CNTs. <i>Composites Part A: Applied Science and Manufacturing</i> , 2022, 158, 106940.	3.8	7

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19	An electrical heating shape memory polymer composite incorporated with conductive elastic fabric. <i>Journal of Composite Materials</i> , 2022, 56, 1725-1736.	1.2	6
20	Bioinspired multimodal soft robot driven by a single dielectric elastomer actuator and two flexible electroadhesive feet. <i>Extreme Mechanics Letters</i> , 2022, 53, 101720.	2.0	20
21	4D printing of multiple shape memory polymer and nanocomposites with biocompatible, programmable and selectively actuated properties. <i>Additive Manufacturing</i> , 2022, 53, 102689.	1.7	19
22	4D printing of electroactive shape-changing composite structures and their programmable behaviors. <i>Composites Part A: Applied Science and Manufacturing</i> , 2022, 157, 106925.	3.8	31
23	A viscoelastic constitutive model for shape memory polymer composites: Micromechanical modeling, numerical implementation and application in 4D printing. <i>Mechanics of Materials</i> , 2022, 169, 104301.	1.7	10
24	Application and Development of Shape Memory Micro/Nano Patterns. <i>Small</i> , 2022, 18, e2105958.	5.2	20
25	Variable Stiffness Electroadhesion and Compliant Electroadhesive Grippers. <i>Soft Robotics</i> , 2022, 9, 1074-1082.	4.6	13
26	Thermal design and analysis of a flexible solar array system based on shape memory polymer composites. <i>Smart Materials and Structures</i> , 2022, 31, 025021.	1.8	5
27	Shape memory polyimide composites with high storage modulus and high glass transition temperature. <i>Journal of Intelligent Material Systems and Structures</i> , 2022, 33, 1762-1772.	1.4	9
28	Boron nitride enhanced shape memory poly(aryl ether ketone) actuators with rapid self-deformation and staged responsive behaviors. <i>Polymer Composites</i> , 2022, 43, 3880-3889.	2.3	6
29	4D printed programmable shape memory left atrial appendage occlusion device. , 2022, , .		0
30	Enhanced Shape Memory Metal-Coordinated Poly(aryl ether ketone)s with Tunable Gradient-Deformation Behaviors as well as Self-Healing and Reprocessing Abilities. <i>ACS Applied Materials & Interfaces</i> , 2022, 14, 20032-20041.	4.0	5
31	Zwitterionic Poly(aryl ether ketone) with Water-Actuated, Reshaping-Reconfiguration Ability and Triple Shape Memory Effect. <i>ACS Applied Polymer Materials</i> , 2022, 4, 4286-4297.	2.0	5
32	3D Printed Bioinspired Stents with Photothermal Effects for Malignant Colorectal Obstruction. <i>Research</i> , 2022, 2022, .	2.8	5
33	Shape Memory Supramolecular Polyurea with Adjustable Toughness and Ultrahigh Energy Density. <i>ACS Applied Polymer Materials</i> , 2022, 4, 6092-6102.	2.0	10
34	Unidirectional Carbon Fiber Reinforced Cyanate-Based Shape Polymer Composite with Variable Stiffness. <i>Advanced Engineering Materials</i> , 2022, 24, .	1.6	4
35	Microbuckling behavior of unidirectional fiber-reinforced shape memory polymer composite undergoing compressive deformation. <i>Composite Structures</i> , 2022, 297, 115975.	3.1	2
36	Porous bone tissue scaffold concept based on shape memory PLA/Fe3O4. <i>Composites Science and Technology</i> , 2021, 203, 108563.	3.8	77

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37	Antagonistic cone dielectric elastomer actuator: Analysis, experiment and application. <i>Extreme Mechanics Letters</i> , 2021, 42, 101134.	2.0	14
38	Microstructural design of 4D printed angle-ply laminated strips with tunable shape memory properties. <i>Materials Letters</i> , 2021, 285, 129197.	1.3	10
39	A Review of Shape Memory Polymers and Composites: Mechanisms, Materials, and Applications. <i>Advanced Materials</i> , 2021, 33, e2000713.	11.1	558
40	Unipolar stroke, electroosmotic pump carbon nanotube yarn muscles. <i>Science</i> , 2021, 371, 494-498.	6.0	110
41	Electrospun shape-memory polymer fibers and their applications. , 2021, , 567-596.		1
42	Characterization and nonlinear models of bending extensile/contractile pneumatic artificial muscles. <i>Smart Materials and Structures</i> , 2021, 30, 025024.	1.8	5
43	Electrothermal shape memory behavior and recovery force of four-dimensional printed continuous carbon fiber/poly(lactic acid) composite. <i>Smart Materials and Structures</i> , 2021, 30, 025040.	1.8	29
44	Compression behavior and energy absorption of 3D printed continuous fiber reinforced composite honeycomb structures with shape memory effects. <i>Additive Manufacturing</i> , 2021, 38, 101842.	1.7	38
45	Improved Carroll's hyperelastic model considering compressibility and its finite element implementation. <i>Acta Mechanica Sinica/Lixue Xuebao</i> , 2021, 37, 785-796.	1.5	6
46	Thermoelectromechanical instability of dielectric elastomer undergoes polarization saturation and temperature variation. <i>Acta Mechanica Sinica/Lixue Xuebao</i> , 2021, 37, 414-421.	1.5	4
47	The shape memory properties of multi-layer graphene reinforced poly(L-lactide-co- μ -caprolactone) by an atomistic investigation. <i>Smart Materials and Structures</i> , 2021, 30, 055005.	1.8	1
48	Bioinspired four-dimensional polymeric aerogel with programmable temporal-spatial multiscale structure and functionality. <i>Composites Science and Technology</i> , 2021, 206, 108677.	3.8	11
49	Bending performance and failure behavior of 3D printed continuous fiber reinforced composite corrugated sandwich structures with shape memory capability. <i>Composite Structures</i> , 2021, 262, 113626.	3.1	64
50	Photosensitive Composite Inks for Digital Light Processing Four-Dimensional Printing of Shape Memory Capture Devices. <i>ACS Applied Materials & Interfaces</i> , 2021, 13, 18110-18119.	4.0	31
51	Effects of accelerated aging on thermal, mechanical, and shape memory properties of a cyanate-based shape memory polymer: II atomic oxygen. <i>Polymer Degradation and Stability</i> , 2021, 186, 109515.	2.7	15
52	Orthogonal photochemistry-assisted printing of 3D tough and stretchable conductive hydrogels. <i>Nature Communications</i> , 2021, 12, 2082.	5.8	96
53	Harnessing Wrinkling Patterns Using Shape Memory Polymer Microparticles. <i>ACS Applied Materials & Interfaces</i> , 2021, 13, 23074-23080.	4.0	19
54	Smart Solar Array Consisting of Shape-Memory Releasing Mechanisms and Deployable Hinges. <i>AIAA Journal</i> , 2021, 59, 2200-2213.	1.5	22

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55	Prediction of effective thermomechanical behavior of shape memory polymer composite with micro-damage interface. <i>Composites Communications</i> , 2021, 25, 100727.	3.3	9
56	Shape memory polymer solar cells with active deformation. <i>Advanced Composites and Hybrid Materials</i> , 2021, 4, 957-965.	9.9	31
57	Review of Dielectric Elastomer Actuators and Their Applications in Soft Robots. <i>Advanced Intelligent Systems</i> , 2021, 3, 2000282.	3.3	111
58	Recent developments in next-generation occlusion devices. <i>Acta Biomaterialia</i> , 2021, 128, 100-119.	4.1	21
59	Multi-performance shape memory epoxy resins and their composites with narrow transition temperature range. <i>Composites Science and Technology</i> , 2021, 213, 108899.	3.8	36
60	4D Printing of Bioinspired Absorbable Left Atrial Appendage Occluders: A Proof-of-Concept Study. <i>ACS Applied Materials & Interfaces</i> , 2021, 13, 12668-12678.	4.0	60
61	A review on material models for isotropic hyperelasticity. <i>International Journal of Mechanical System Dynamics</i> , 2021, 1, 71-88.	1.3	31
62	Design of 4D printed shape-changing tracheal stent and remote controlling actuation. <i>International Journal of Smart and Nano Materials</i> , 2021, 12, 375-389.	2.0	46
63	Thermomechanical properties and deformation behavior of a unidirectional carbon fiber reinforced shape memory polymer composite laminate. <i>Journal of Applied Polymer Science</i> , 2020, 137, 48532.	1.3	10
64	Ultra-light release device integrated with screen-printed heaters for CubeSat™s deployable solar arrays. <i>Composite Structures</i> , 2020, 232, 111561.	3.1	22
65	Fabrication of the silver modified carbon nanotube film/carbon fiber reinforced polymer composite for the lightning strike protection application. <i>Composites Part B: Engineering</i> , 2020, 180, 107563.	5.9	36
66	Time-dependent electromechanical phase transition and bulging propagation in a viscoelastic dielectric elastomer tube. <i>Smart Materials and Structures</i> , 2020, 29, 015005.	1.8	4
67	Modeling the thermomechanical behaviors of short fiber reinforced shape memory polymer composites. <i>International Journal of Mechanical Sciences</i> , 2020, 166, 105212.	3.6	27
68	Shape-memory poly(arylene ether ketone)s with tunable transition temperatures and their composite actuators capable of electric-triggered deformation. <i>Journal of Materials Chemistry C</i> , 2020, 8, 303-309.	2.7	23
69	4D printed anisotropic structures with tailored mechanical behaviors and shape memory effects. <i>Composites Science and Technology</i> , 2020, 186, 107935.	3.8	49
70	Shape Memory Polyurethane Microcapsules with Active Deformation. <i>ACS Applied Materials & Interfaces</i> , 2020, 12, 47059-47064.	4.0	31
71	Multifunctional flexible and stretchable graphite-silicone rubber composites. <i>Journal of Materials Research and Technology</i> , 2020, 9, 15621-15630.	2.6	22
72	How graphene oxide affects shape memory properties and strength of poly(lactide-co- μ -caprolactone). <i>Journal of Intelligent Material Systems and Structures</i> , 2020, 31, 2152-2164.	1.4	5

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73	Switchable Wettability and Adhesion of Micro/Nanostructured Elastomer Surface via Electric Field for Dynamic Liquid Droplet Manipulation. <i>Advanced Science</i> , 2020, 7, 2000772.	5.6	53
74	Light activated shape memory polymers and composites: A review. <i>European Polymer Journal</i> , 2020, 136, 109912.	2.6	89
75	World's first spaceflight on-orbit demonstration of a flexible solar array system based on shape memory polymer composites. <i>Science China Technological Sciences</i> , 2020, 63, 1436-1451.	2.0	45
76	Metal mesh embedded in colorless shape memory polyimide for flexible transparent electric-heater and actuators. <i>Applied Materials Today</i> , 2020, 21, 100797.	2.3	15
77	4D Printing Auxetic Metamaterials with Tunable, Programmable, and Reconfigurable Mechanical Properties. <i>Advanced Functional Materials</i> , 2020, 30, 2004226.	7.8	152
78	Nano/microstructures of shape memory polymers: from materials to applications. <i>Nanoscale Horizons</i> , 2020, 5, 1155-1173.	4.1	63
79	Composite Piezoelectric Energy Harvesters with Symmetric Angle-Ply Stacking Sequences and Variable Through-the-Thickness Poisson's Ratios. <i>Physica Status Solidi (B): Basic Research</i> , 2020, 257, 1900689.	0.7	2
80	Temperature dependence of elastic constants in unidirectional carbon fiber reinforced shape memory polymer composites. <i>Mechanics of Materials</i> , 2020, 148, 103518.	1.7	19
81	On 4D printing as a revolutionary fabrication technique for smart structures. <i>Smart Materials and Structures</i> , 2020, 29, 083001.	1.8	41
82	Novel Bending and Helical Extensile/Contractile Pneumatic Artificial Muscles Inspired by Elephant Trunk. <i>Soft Robotics</i> , 2020, 7, 597-614.	4.6	90
83	4D printed shape memory polymers and their structures for biomedical applications. <i>Science China Technological Sciences</i> , 2020, 63, 545-560.	2.0	85
84	Origami-inspired self-deployment 4D printed honeycomb sandwich structure with large shape transformation. <i>Smart Materials and Structures</i> , 2020, 29, 065015.	1.8	41
85	Direct 3D Printing of Highly Anisotropic, Flexible, Constriction-Resistive Sensors for Multidirectional Proprioception in Soft Robots. <i>ACS Applied Materials & Interfaces</i> , 2020, 12, 15631-15643.	4.0	103
86	4D printing of personalized shape memory polymer vascular stents with negative Poisson's ratio structure: A preliminary study. <i>Science China Technological Sciences</i> , 2020, 63, 578-588.	2.0	88
87	Direct Ink Writing Based 4D Printing of Materials and Their Applications. <i>Advanced Science</i> , 2020, 7, 2001000.	5.6	168
88	4D printed multi-stable metamaterials with mechanically tunable performance. <i>Composite Structures</i> , 2020, 252, 112663.	3.1	83
89	A double-layered composite for lightning strike protection via conductive and thermal protection. <i>Composites Communications</i> , 2020, 21, 100403.	3.3	15
90	The compatibility of polylactic acid and polybutylene succinate blends by molecular and mesoscopic dynamics. <i>International Journal of Smart and Nano Materials</i> , 2020, 11, 24-37.	2.0	28

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91	Remote actuation of light activated shape memory polymers via D-shaped optical fibres. <i>Smart Materials and Structures</i> , 2020, 29, 047001.	1.8	14
92	4D printed electro-induced continuous carbon fiber reinforced shape memory polymer composites with excellent bending resistance. <i>Composites Part B: Engineering</i> , 2020, 194, 108034.	5.9	84
93	Mechanical analysis of a tip-loaded deployable truss based on shape memory polymer composite. <i>Composite Structures</i> , 2020, 242, 112196.	3.1	15
94	Active and Deformable Organic Electronic Devices based on Conductive Shape Memory Polyimide. <i>ACS Applied Materials & Interfaces</i> , 2020, 12, 23236-23243.	4.0	32
95	Active composites based on shape memory polymers: overview, fabrication methods, applications, and future prospects. <i>Journal of Materials Science</i> , 2020, 55, 10975-11051.	1.7	53
96	Magnetic programming of 4D printed shape memory composite structures. <i>Composites Part A: Applied Science and Manufacturing</i> , 2019, 125, 105571.	3.8	151
97	CNT-based electro-responsive shape memory functionalized 3D printed nanocomposites for liquid sensors. <i>Carbon</i> , 2019, 155, 77-87.	5.4	98
98	Dielectric and Breakdown Properties of MWCNT- and OMMT-Reinforced Epoxy Composites. <i>Journal of Electronic Materials</i> , 2019, 48, 7270-7281.	1.0	3
99	A humidity-driven flexible carbon nitride film with multiple deformations. <i>Smart Materials and Structures</i> , 2019, 28, 105007.	1.8	6
100	A Biomimetic Soft Lens Controlled by Electrooculographic Signal. <i>Advanced Functional Materials</i> , 2019, 29, 1903762.	7.8	50
101	Biopolymers as bone substitutes: a review. <i>Biomaterials Science</i> , 2019, 7, 3961-3983.	2.6	103
102	Shape Memory Effect in Micro-Sized Shape Memory Polymer Composite Chains. <i>Applied Sciences (Switzerland)</i> , 2019, 9, 2919.	1.3	6
103	Design and performance of an ultra-flexible solid state supercapacitor based on thermo-crosslinking carbon nanotube paper/Co ₃ O ₄ nanowire electrode. <i>Materials Research Express</i> , 2019, 6, 085628.	0.8	0
104	Thermo-mechanical behavior prediction of particulate reinforced shape memory polymer composite. <i>Composites Part B: Engineering</i> , 2019, 179, 107455.	5.9	35
105	Personalized 4D printing of bioinspired tracheal scaffold concept based on magnetic stimulated shape memory composites. <i>Composites Science and Technology</i> , 2019, 184, 107866.	3.8	128
106	Progress of shape memory polymers and their composites in aerospace applications. <i>Smart Materials and Structures</i> , 2019, 28, 103003.	1.8	85
107	Remotely and Sequentially Controlled Actuation of Electroactivated Carbon Nanotube/Shape Memory Polymer Composites. <i>Advanced Materials Technologies</i> , 2019, 4, 1900600.	3.0	50
108	4D-Printed Biodegradable and Remotely Controllable Shape Memory Occlusion Devices. <i>Advanced Functional Materials</i> , 2019, 29, 1906569.	7.8	171

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109	Delayed electromechanical instability of a viscoelastic dielectric elastomer balloon. Proceedings of the Royal Society A: Mathematical, Physical and Engineering Sciences, 2019, 475, 20190316.	1.0	6
110	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.	1.4	13
111	Effects of selectively triggered photothermal particles on shape memory polymer composites: An investigation on structural performance, thermomechanical characteristics and photothermal behaviour. Journal of Intelligent Material Systems and Structures, 2019, 30, 3124-3135.	1.4	15
112	Mechanical Models, Structures, and Applications of Shape-Memory Polymers and Their Composites. Acta Mechanica Solida Sinica, 2019, 32, 535-565.	1.0	73
113	Microstructural design for enhanced shape memory behavior of 4D printed composites based on carbon nanotube/polylactic acid filament. Composites Science and Technology, 2019, 181, 107692.	3.8	69
114	3D printing of shape memory poly(<i>ε</i> -caprolactone-co-trimethylene carbonate) by direct ink writing for shape-changing structures. Journal of Applied Polymer Science, 2019, 136, 48177.	1.3	45
115	γ -rays radiation resistant shape memory cyanate ester resin and its composites with high transition temperature. Smart Materials and Structures, 2019, 28, 075039.	1.8	13
116	Low length dispersity fiber-like micelles from an A-B-A triblock copolymer with terminal crystallizable poly(ferrocenyldimethylsilane) segments via living crystallization-driven self-assembly. Polymer Chemistry, 2019, 10, 3973-3982.	1.9	6
117	Direct 3D Printing of Hybrid Nanofiber-Based Nanocomposites for Highly Conductive and Shape Memory Applications. ACS Applied Materials & Interfaces, 2019, 11, 24523-24532.	4.0	119
118	Triple-shape memory effect in a styrene-based shape memory polymer: Characterization, theory and application. Composites Part B: Engineering, 2019, 173, 106905.	5.9	60
119	Preliminary test and analysis of an ultralight lenticular tube based on shape memory polymer composites. Composite Structures, 2019, 223, 110936.	3.1	28
120	Ground and geostationary orbital qualification of a sunlight-stimulated substrate based on shape memory polymer composite. Smart Materials and Structures, 2019, 28, 075023.	1.8	26
121	Preparation and characterization of CNT films/silicone rubber composite with improved microwave absorption performance. Materials Research Express, 2019, 6, 075610.	0.8	10
122	Flexible and colorless shape memory polyimide films with high visible light transmittance and high transition temperature. Smart Materials and Structures, 2019, 28, 055031.	1.8	15
123	Amorphous Bimetallic Nanowires with High-Performance Microwave Absorption: A Case for FeCo Nanowires. Nano, 2019, 14, 1950041.	0.5	10
124	Modeling the thermomechanical behaviors of shape memory polymers and their nanocomposites by a network transition theory. Smart Materials and Structures, 2019, 28, 065018.	1.8	12
125	The research status and challenges of shape memory polymer-based flexible electronics. Materials Horizons, 2019, 6, 931-944.	6.4	139
126	Fabrication of low dielectric constant polyimide/TiO ₂ nanofibers with enhanced UV-light shielding properties. High Performance Polymers, 2019, 31, 986-995.	0.8	9

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127	Shape memory polymers and their composites in biomedical applications. <i>Materials Science and Engineering C</i> , 2019, 97, 864-883.	3.8	200
128	Sesame-cookie topography silver nanoparticles modified carbon nanotube paper for enhancing lightning strike protection. <i>Carbon</i> , 2019, 143, 204-214.	5.4	22
129	Designing triple- ϵ shape memory polymers from a miscible polymer pair through dual- ϵ electrospinning technique. <i>Journal of Applied Polymer Science</i> , 2019, 136, 47471.	1.3	20
130	Thermomechanical constitutive modeling of fiber reinforced shape memory polymer composites based on thermodynamics with internal state variables. <i>Mechanics of Materials</i> , 2019, 130, 9-19.	1.7	48
131	Dielectric Elastomer Spring-Roll Bending Actuators: Applications in Soft Robotics and Design. <i>Soft Robotics</i> , 2019, 6, 69-81.	4.6	71
132	Bending shape recovery of unidirectional carbon fiber reinforced epoxy-based shape memory polymer composites. <i>Composites Part A: Applied Science and Manufacturing</i> , 2019, 116, 169-179.	3.8	74
133	Porous bone tissue scaffold based on shape memory polymer. , 2019, , .		1
134	A multi-branch thermoviscoelastic model based on fractional derivatives for free recovery behaviors of shape memory polymers. <i>Mechanics of Materials</i> , 2018, 120, 34-42.	1.7	27
135	Dynamic performance of dielectric elastomer balloon incorporating stiffening and damping effect. <i>Smart Materials and Structures</i> , 2018, 27, 105036.	1.8	30
136	Shape memory behavior and recovery force of 4D printed textile functional composites. <i>Composites Science and Technology</i> , 2018, 160, 224-230.	3.8	115
137	Shape memory polymers for composites. <i>Composites Science and Technology</i> , 2018, 160, 169-198.	3.8	211
138	Effects of atomic oxygen on epoxy-based shape memory polymer in low earth orbit. <i>Journal of Intelligent Material Systems and Structures</i> , 2018, 29, 1081-1087.	1.4	11
139	Thermal, mechanical, and shape- ϵ memory properties of nanorubber- ϵ toughened, epoxy- ϵ based shape- ϵ memory nanocomposites. <i>Journal of Applied Polymer Science</i> , 2018, 135, 45780.	1.3	12
140	Microwave responsive epoxy nanocomposites reinforced by carbon nanomaterials of different dimensions. <i>Journal of Applied Polymer Science</i> , 2018, 135, 45676.	1.3	15
141	Thermomechanical and electroactive behavior of a thermosetting styrene- ϵ based carbon black shape- ϵ memory composite. <i>Journal of Applied Polymer Science</i> , 2018, 135, 45978.	1.3	11
142	A novel low colored and transparent shape memory copolyimide and its durability in space thermal cycling environments. <i>Polymer</i> , 2018, 156, 121-127.	1.8	23
143	Conductive Shape Memory Microfiber Membranes with Core- ϵ Shell Structures and Electroactive Performance. <i>ACS Applied Materials & Interfaces</i> , 2018, 10, 35526-35532.	4.0	52
144	Effects of $\hat{\gamma}$ -radiation on the performances of optically transparent shape memory polyimides with a low glass transition temperature. <i>Polymer Degradation and Stability</i> , 2018, 156, 245-251.	2.7	10

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145	Light-induced microfluidic chip based on shape memory gold nanoparticles/poly (vinyl alcohol) nanocomposites. <i>Smart Materials and Structures</i> , 2018, 27, 105047.	1.8	11
146	Shape retainability and reusability investigation of bottle-shaped SMP mandrel. <i>Polymer Testing</i> , 2018, 69, 325-331.	2.3	10
147	Bistable and Reconfigurable Photonic Crystalsâ€™ Electroactive Shape Memory Polymer Nanocomposite for Inkâ€™Free Rewritable Paper. <i>Advanced Functional Materials</i> , 2018, 28, 1802430.	7.8	73
148	Experimental and theoretical analysis of a smart transmission mechanism system. <i>Smart Materials and Structures</i> , 2018, 27, 095022.	1.8	10
149	Shape memory behavior and recovery force of 4D printed laminated Miura-origami structures subjected to compressive loading. <i>Composites Part B: Engineering</i> , 2018, 153, 233-242.	5.9	86
150	Investigation of ultraviolet radiation effects on thermomechanical properties and shape memory behaviour of styrene-based shape memory polymers and its composite. <i>Composites Science and Technology</i> , 2018, 165, 266-273.	3.8	25
151	Research on high electromagnetic interference shielding effectiveness of a foldable buckypaper/polyacrylonitrile composite film via interface reinforcing. <i>Composites Part A: Applied Science and Manufacturing</i> , 2018, 113, 132-140.	3.8	30
152	An E-shape broadband piezoelectric energy harvester induced by magnets. <i>Journal of Intelligent Material Systems and Structures</i> , 2018, 29, 2477-2491.	1.4	11
153	Light-actuated reversible shape memory effect of a polymer composite. <i>Composites Part A: Applied Science and Manufacturing</i> , 2018, 110, 70-75.	3.8	49
154	Integrative hinge based on shape memory polymer composites: Material, design, properties and application. <i>Composite Structures</i> , 2018, 206, 164-176.	3.1	74
155	A thermoviscoelastic model incorporated with uncoupled structural and stress relaxation mechanisms for amorphous shape memory polymers. <i>Mechanics of Materials</i> , 2018, 124, 18-25.	1.7	29
156	Modeling the strain rate-, hold time-, and temperature-dependent cyclic behaviors of amorphous shape memory polymers. <i>Smart Materials and Structures</i> , 2018, 27, 075050.	1.8	13
157	Effects of accelerated aging on thermal, mechanical and shape memory properties of cyanate-based shape memory polymer: lAvacuum ultraviolet radiation. <i>Polymer Degradation and Stability</i> , 2017, 138, 91-97.	2.7	46
158	Stimulus methods of multi-functional shape memory polymer nanocomposites: A review. <i>Composites Part A: Applied Science and Manufacturing</i> , 2017, 100, 20-30.	3.8	167
159	A constitutive model for amorphous shape memory polymers based on thermodynamics with internal state variables. <i>Mechanics of Materials</i> , 2017, 111, 1-14.	1.7	40
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