

Jinlian Hu

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258
papers

8,227
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44
h-index

82
g-index

266
ext. papers

9,281
ext. citations

4.8
avg, IF

6.57
L-index

#	Paper	IF	Citations
258	Recent advances in shape-memory polymers: Structure, mechanism, functionality, modeling and applications. <i>Progress in Polymer Science</i> , 2012 , 37, 1720-1763	29.6	910
257	A review of shape memory polymer composites and blends. <i>Composites Part A: Applied Science and Manufacturing</i> , 2009 , 40, 1661-1672	8.4	432
256	A review of stimuli-responsive polymers for smart textile applications. <i>Smart Materials and Structures</i> , 2012 , 21, 053001	3.4	388
255	Two-dimensional semiconductors: recent progress and future perspectives. <i>Journal of Materials Chemistry C</i> , 2013 , 1, 2952	7.1	287
254	A review of actively moving polymers in textile applications. <i>Journal of Materials Chemistry</i> , 2010 , 20, 3346		203
253	A Brief Review of Stimulus-active Polymers Responsive to Thermal, Light, Magnetic, Electric, and Water/Solvent Stimuli. <i>Journal of Intelligent Material Systems and Structures</i> , 2010 , 21, 859-885	2.3	189
252	Rapidly switchable water-sensitive shape-memory cellulose/elastomer nano-composites. <i>Soft Matter</i> , 2012 , 8, 2509	3.6	176
251	Smart polymer fibers with shape memory effect. <i>Smart Materials and Structures</i> , 2006 , 15, 1547-1554	3.4	146
250	Crosslinked polyurethanes with shape memory properties. <i>Polymer International</i> , 2005 , 54, 854-859	3.3	137
249	A poly(ethylene glycol)-based smart phase change material. <i>Solar Energy Materials and Solar Cells</i> , 2008 , 92, 1260-1268	6.4	136
248	Novel moisture-sensitive shape memory polyurethanes containing pyridine moieties. <i>Polymer</i> , 2009 , 50, 4424-4428	3.9	119
247	Two-way shape memory effect in polymer laminates. <i>Materials Letters</i> , 2008 , 62, 4088-4090	3.3	108
246	Shape memory polymers and textiles 2007 ,		101
245	Triple shape memory effect in multiple crystalline polyurethanes. <i>Polymers for Advanced Technologies</i> , 2010 , 21, 377-380	3.2	98
244	Properties and mechanism of two-way shape memory polyurethane composites. <i>Composites Science and Technology</i> , 2010 , 70, 1437-1443	8.6	96
243	Development of shape memory polyurethane fiber with complete shape recoverability. <i>Smart Materials and Structures</i> , 2006 , 15, 1385-1394	3.4	94
242	Room temperature synthesized rutile TiO(2) nanoparticles induced by laser ablation in liquid and their photocatalytic activity. <i>Nanotechnology</i> , 2009 , 20, 285707	3.4	92

241	Shape-memory polyurethane/multiwalled carbon nanotube fibers. <i>Journal of Applied Polymer Science</i> , 2007 , 106, 837-848	2.9	88
240	A novel design for a wearable thermoelectric generator based on 3D fabric structure. <i>Smart Materials and Structures</i> , 2017 , 26, 045037	3.4	85
239	Fiber-in-Tube Design of Co S -Carbon/Co S : Enabling Efficient Sodium Storage. <i>Angewandte Chemie - International Edition</i> , 2019 , 58, 6239-6243	16.4	85
238	Healable thermoset polymer composite embedded with stimuli-responsive fibres. <i>Journal of the Royal Society Interface</i> , 2012 , 9, 3279-87	4.1	84
237	Electrospun polyurethane nanofibres having shape memory effect. <i>Materials Letters</i> , 2008 , 62, 2074-2076	3	80
236	Morphology, phase separation, thermal and mechanical property differences of shape memory fibres prepared by different spinning methods. <i>Smart Materials and Structures</i> , 2007 , 16, 1192-1197	3.4	80
235	Preparation of polyurethane nanofibers by electrospinning. <i>Journal of Applied Polymer Science</i> , 2008 , 109, 406-411	2.9	80
234	Waterborne polyurethane based thermoelectric composites and their application potential in wearable thermoelectric textiles. <i>Composites Part B: Engineering</i> , 2016 , 107, 59-66	10	74
233	Study on the thermal-induced shape memory effect of pyridine containing supramolecular polyurethane. <i>Polymer</i> , 2010 , 51, 240-248	3.9	70
232	Polycaprolactone-based shape memory segmented polyurethane fiber. <i>Journal of Applied Polymer Science</i> , 2007 , 106, 2515-2523	2.9	70
231	Study of multi-functional electrospun composite nanofibrous mats for smart wound healing. <i>International Journal of Biological Macromolecules</i> , 2015 , 79, 469-76	7.9	69
230	Self-organizing alignment of carbon nanotube in shape memory segmented fiber prepared by in situ polymerization and melt spinning. <i>Composites Part A: Applied Science and Manufacturing</i> , 2008 , 39, 314-321	8.4	64
229	Effect of molecular weight on shape memory behavior in polyurethane films. <i>Polymer International</i> , 2007 , 56, 1128-1134	3.3	64
228	Effect of Fabric Mechanical Properties on Drape. <i>Textile Research Journal</i> , 1998 , 68, 57-64	1.7	61
227	Nonwoven supported temperature-sensitive poly(N-isopropylacrylamide)/polyurethane copolymer hydrogel with antibacterial activity. <i>Journal of Biomedical Materials Research - Part B Applied Biomaterials</i> , 2009 , 89, 1-8	3.5	60
226	Theoretical study of hydrogen bonding interactions on MDI-based polyurethane. <i>Journal of Molecular Modeling</i> , 2010 , 16, 1391-9	2	59
225	Effect of SSL and HSC on morphology and properties of PHA based SMPU synthesized by bulk polymerization method. <i>Journal of Polymer Science, Part B: Polymer Physics</i> , 2007 , 45, 444-454	2.6	59
224	Functional shape memory composite nanofibers with graphene oxide filler. <i>Composites Part A: Applied Science and Manufacturing</i> , 2015 , 76, 115-123	8.4	55

223	Supramolecular polyurethane networks containing pyridine moieties for shape memory materials. <i>Materials Letters</i> , 2009 , 63, 1462-1464	3.3	54
222	Enhancing Enzyme Immobilization on Carbon Nanotubes via Metal-Organic Frameworks for Large-Substrate Biocatalysis. <i>ACS Applied Materials & Interfaces</i> , 2019 , 11, 12133-12141	9.5	51
221	Effect of cationic group content on shape memory effect in segmented polyurethane cationomer. <i>Journal of Applied Polymer Science</i> , 2007 , 103, 545-556	2.9	50
220	Deep-Ultraviolet-Blue-Light Surface Plasmon Resonance of Al and Alcore/Al ₂ O ₃ shell in Spherical and Cylindrical Nanostructures. <i>Journal of Physical Chemistry C</i> , 2012 , 116, 15584-15590	3.8	49
219	A temperature-regulating fiber made of PEG-based smart copolymer. <i>Solar Energy Materials and Solar Cells</i> , 2008 , 92, 1245-1252	6.4	49
218	New Developments in Elastic Fibers. <i>Polymer Reviews</i> , 2008 , 48, 275-301	14	48
217	Animal Hairs as Water-stimulated Shape Memory Materials: Mechanism and Structural Networks in Molecular Assemblies. <i>Scientific Reports</i> , 2016 , 6, 26393	4.9	47
216	An electro-active shape memory fibre by incorporating multi-walled carbon nanotubes. <i>Smart Materials and Structures</i> , 2007 , 16, 830-836	3.4	46
215	Study on poly(L-lactide)-based shape memory copolymer fiber prepared by bulk polymerization and melt spinning. <i>Polymers for Advanced Technologies</i> , 2008 , 19, 131-136	3.2	44
214	Thermal sensitive shape recovery and mass transfer properties of polyurethane/modified MWNT composite membranes synthesized via in situ solution pre-polymerization. <i>Journal of Membrane Science</i> , 2008 , 319, 102-110	9.6	43
213	Smart medical stocking using memory polymer for chronic venous disorders. <i>Biomaterials</i> , 2016 , 75, 174-186	42	
212	Cellulose/Chitosan Composite Multifilament Fibers with Two-Switch Shape Memory Performance. <i>ACS Sustainable Chemistry and Engineering</i> , 2019 , 7, 6981-6990	8.3	41
211	Self-fitting shape memory polymer foam inducing bone regeneration: A rabbit femoral defect study. <i>Biochimica Et Biophysica Acta - General Subjects</i> , 2018 , 1862, 936-945	4	40
210	Shape memory effect of thermoplastic segmented polyurethanes with self-complementary quadruple hydrogen bonding in soft segments. <i>European Physical Journal E</i> , 2009 , 28, 3-10	1.5	40
209	Scalable Spider-Silk-Like Supertough Fibers using a Pseudoprotein Polymer. <i>Advanced Materials</i> , 2019 , 31, e1904311	24	38
208	Facile preparation of high solid content waterborne polyurethane and its application in leather surface finishing. <i>Progress in Organic Coatings</i> , 2019 , 130, 8-16	4.8	38
207	Preparation and Property Evaluation of Conductive Hydrogel Using Poly (Vinyl Alcohol)/Polyethylene Glycol/Graphene Oxide for Human Electrocardiogram Acquisition. <i>Polymers</i> , 2017 , 9,	4.5	38
206	Memory chromic polyurethane with tetraphenylethylene. <i>Journal of Polymer Science, Part B: Polymer Physics</i> , 2014 , 52, 104-110	2.6	38

205	In situ x-ray diffraction study of the thermal expansion of silver nanoparticles in ambient air and vacuum. <i>Applied Physics Letters</i> , 2005 , 86, 151915	3.4	38
204	Objective Evaluation of Fabric Pilling Using Image Analysis Techniques. <i>Textile Research Journal</i> , 2002 , 72, 1057-1064	1.7	38
203	Design of bilayered nanofibrous mats for wound dressing using an electrospinning technique. <i>Materials Letters</i> , 2015 , 156, 46-49	3.3	36
202	Polymeric Shape Memory Nanocomposites with Heterogeneous Twin Switches. <i>Macromolecular Chemistry and Physics</i> , 2011 , 212, 1981-1986	2.6	36
201	Shape memory behavior of SMPU knitted fabric. <i>Journal of Zhejiang University: Science A</i> , 2007 , 8, 830-834	4.1	36
200	Study on the moisture absorption of pyridine containing polyurethane for moisture-responsive shape memory effects. <i>Journal of Materials Science</i> , 2011 , 46, 6581-6588	4.3	34
199	Effect of microphase-separation promoters on the shape-memory behavior of polyurethane. <i>Journal of Applied Polymer Science</i> , 2006 , 102, 5224-5231	2.9	34
198	Shape-memory biopolymers based on βsheet structures of polyalanine segments inspired by spider silks. <i>Macromolecular Bioscience</i> , 2013 , 13, 161-6	5.5	33
197	Tunable shape recovery of polymeric nano-composites. <i>Materials Letters</i> , 2011 , 65, 3583-3585	3.3	33
196	Study of the thermal properties of shape memory polyurethane nanofibrous nonwoven. <i>Journal of Materials Science</i> , 2011 , 46, 3464-3469	4.3	33
195	3-D fibrous assemblies 2008 ,		33
194	The Shape Memory Properties of Biodegradable Chitosan/Poly(l-lactide) Composites. <i>Journal of Polymers and the Environment</i> , 2009 , 17, 212-224	4.5	32
193	Modeling Uniaxial Tensile Properties of Multiaxial Warp Knitted Fabrics. <i>Textile Research Journal</i> , 1998 , 68, 828-834	1.7	32
192	Crack-free periodic porous thin films assisted by plasma irradiation at low temperature and their enhanced gas-sensing performance. <i>Chemistry - A European Journal</i> , 2013 , 19, 13387-95	4.8	31
191	Crystallization and melting behavior of the crystalline soft segment in a shape-memory polyurethane ionomer. <i>Journal of Applied Polymer Science</i> , 2008 , 107, 599-609	2.9	31
190	Is biopolymer hair a multi-responsive smart material?. <i>Polymer Chemistry</i> , 2017 , 8, 283-294	4.9	30
189	Stress-memory polymeric filaments for advanced compression therapy. <i>Journal of Materials Chemistry B</i> , 2017 , 5, 1905-1916	7.3	29
188	Morphology, reversible phase crystallization, and thermal sensitive shape memory effect of cellulose whisker/SMPU nano-composites. <i>Journal of Applied Polymer Science</i> , 2012 , 123, 749-762	2.9	29

187	Mechanically Robust Shape Memory Polyurethane Nanocomposites for Minimally Invasive Bone Repair.. <i>ACS Applied Bio Materials</i> , 2019 , 2, 1056-1065	4.1	28
186	Fourier transform infrared study of supramolecular polyurethane networks containing pyridine moieties for shape memory materials. <i>Polymer International</i> , 2010 , 59, 529-538	3.3	28
185	Effect of steaming on shape memory polyurethane fibers with various hard segment contents. <i>Smart Materials and Structures</i> , 2007 , 16, 969-981	3.4	28
184	Measuring and Modeling 3D Wrinkles in Fabrics. <i>Textile Research Journal</i> , 2002 , 72, 863-869	1.7	28
183	Robust chitin films with good biocompatibility and breathable properties. <i>Carbohydrate Polymers</i> , 2019 , 212, 361-367	10.3	28
182	High performance shape memory foams with isocyanate-modified hydroxyapatite nanoparticles for minimally invasive bone regeneration. <i>Ceramics International</i> , 2017 , 43, 4794-4802	5.1	27
181	Properties of shape memory polyurethane used as a low-temperature thermoplastic biomedical orthotic material: influence of hard segment content. <i>Journal of Biomaterials Science, Polymer Edition</i> , 2008 , 19, 1437-54	3.5	27
180	Shape memory effect and reversible phase crystallization process in SMPU ionomer. <i>Polymers for Advanced Technologies</i> , 2008 , 19, 328-333	3.2	27
179	From Fragile Plastic to Room-Temperature Self-Healing Elastomer: Tuning Quadruple Hydrogen Bonding Interaction through One-Pot Synthesis. <i>ACS Applied Polymer Materials</i> , 2019 , 1, 425-436	4.3	26
178	Hydrogen-bonding interactions in hard segments of shape memory polyurethane: toluene diisocyanates and 1,6-hexamethylene diisocyanate. A theoretical and comparative study. <i>Journal of Physical Chemistry A</i> , 2014 , 118, 12241-55	2.8	26
177	Design of a Smart Nerve Conduit Based on a Shape-Memory Polymer. <i>Advanced Materials Technologies</i> , 2016 , 1, 1600015	6.8	26
176	A Spider-Capture-Silk-Like Fiber with Extremely High-Volume Directional Water Collection. <i>Advanced Functional Materials</i> , 2020 , 30, 2002437	15.6	25
175	Studies of the moisture-sensitive shape memory effect of pyridine-containing polyurethanes. <i>Polymer International</i> , 2012 , 61, 314-320	3.3	25
174	Effect of MDIBDO hard segment on pyridine-containing shape memory polyurethanes. <i>Journal of Materials Science</i> , 2011 , 46, 5294-5304	4.3	25
173	Smart and Reversible Surface Plasmon Resonance Responses to Various Atmospheres for Silver Nanoparticles Loaded in Mesoporous SiO ₂ . <i>Journal of Physical Chemistry C</i> , 2009 , 113, 19039-19045	3.8	25
172	Influence of heat treatment on the properties of shape memory fibers. I. Crystallinity, hydrogen bonding, and shape memory effect. <i>Journal of Applied Polymer Science</i> , 2008 , 109, 2616-2623	2.9	25
171	Structural characterization and mass transfer properties of polyurethane block copolymer: influence of mixed soft segment block and crystal melting temperature. <i>Polymer International</i> , 2006 , 55, 1013-1020	3.3	24
170	Modeling formability of multiaxial warp knitted fabrics on a hemisphere. <i>Composites Part A: Applied Science and Manufacturing</i> , 2002 , 33, 725-734	8.4	24

169	Recent Progress in Protective Membranes Fabricated Via Electrospinning: Advanced Materials, Biomimetic Structures, and Functional Applications.. <i>Advanced Materials</i> , 2021 , e2107938	24	23
168	Shape Memory Investigation of Keratin Fibers as Multi-Coupled Stimuli of Responsive Smart Materials. <i>Polymers</i> , 2017 , 9,	4.5	22
167	Fabric Coated with Shape Memory Polyurethane and Its Properties. <i>Polymers</i> , 2018 , 10,	4.5	22
166	Architectural evolution of phase domains in shape memory polyurethanes by dissipative particle dynamics simulations. <i>Polymer Chemistry</i> , 2017 , 8, 260-271	4.9	22
165	Quick water-responsive shape memory hybrids with cellulose nanofibers. <i>Journal of Polymer Science Part A</i> , 2017 , 55, 767-775	2.5	22
164	Wool Can Be Cool: Water-Actuating Woolen Knitwear for Both Hot and Cold. <i>Advanced Functional Materials</i> , 2020 , 30, 2005033	15.6	22
163	Chemically Modified Silk Proteins. <i>Advanced Engineering Materials</i> , 2018 , 20, 1700961	3.5	21
162	Collagen skin, a water-sensitive shape memory material. <i>Journal of Materials Chemistry B</i> , 2018 , 6, 5144-5152	21	21
161	Stress memory polymers. <i>Journal of Polymer Science, Part B: Polymer Physics</i> , 2015 , 53, 893-898	2.6	21
160	Achieving shape memory: Reversible behaviors of cellulosePU blends in wet/dry cycles. <i>Journal of Applied Polymer Science</i> , 2012 , 125, 657-665	2.9	21
159	A combined experimental and computational study on the material properties of shape memory polyurethane. <i>Journal of Molecular Modeling</i> , 2012 , 18, 1263-71	2	20
158	Numerical Drape Behavior of Circular Fabric Sheets Over Circular Pedestals. <i>Textile Research Journal</i> , 2000 , 70, 593-603	1.7	20
157	Artificial spider silk is smart like natural one: having humidity-sensitive shape memory with superior recovery stress. <i>Materials Chemistry Frontiers</i> , 2019 , 3, 2472-2482	7.8	19
156	The influence of heat treatment on the properties of shape memory fibers. II. Tensile properties, dimensional stability, recovery force relaxation, and thermomechanical cyclic properties. <i>Journal of Applied Polymer Science</i> , 2009 , 111, 1156-1164	2.9	19
155	Shape memory fiber spun with segmented polyurethane ionomer. <i>Polymers for Advanced Technologies</i> , 2008 , 19, 1745-1753	3.2	19
154	Substrate dependent surface plasmon resonance evolution of Ag nanoparticles treated in atmospheres. <i>Journal of Physics Condensed Matter</i> , 2006 , 18, 5415-5423	1.8	19
153	Evolution of the optical spectra of an Ag/mesoporous SiO ₂ nanostructure heat-treated in air and H ₂ atmospheres. <i>Nanotechnology</i> , 2007 , 18, 185710	3.4	19
152	A smart orthopedic compression device based on a polymeric stress memory actuator. <i>Materials and Design</i> , 2016 , 97, 222-229	8.1	19

151	Study on the liquefied-MDI-based shape memory polyurethanes. <i>Journal of Applied Polymer Science</i> , 2007 , 106, 993-1000	2.9	18
150	Self-adaptive water vapor permeability and its hydrogen bonding switches of bio-inspired polymer thin films. <i>Materials Chemistry Frontiers</i> , 2017 , 1, 2027-2030	7.8	17
149	A low-temperature thermoplastic anti-bacterial medical orthotic material made of shape memory polyurethane ionomer: influence of ionic group. <i>Journal of Biomaterials Science, Polymer Edition</i> , 2009 , 20, 199-218	3.5	17
148	SHAPE MEMORY POLYURETHANE FOR SMART GARMENT. <i>Research Journal of Textile and Apparel</i> , 2002 , 6, 75-83	1.1	17
147	A skin inspired bio-smart composite with water responsive shape memory ability. <i>Materials Chemistry Frontiers</i> , 2019 , 3, 1128-1138	7.8	16
146	Through-thickness permeability study of orthogonal and angle-interlock woven fabrics. <i>Journal of Materials Science</i> , 2015 , 50, 1257-1266	4.3	16
145	Bioinspired poly(vinyl alcohol)-silk hybrids: Two-way water-sensitive shape-memory materials. <i>Materials Today Communications</i> , 2018 , 17, 419-426	2.5	16
144	Collagen incorporation into waterborne polyurethane improves breathability, mechanical property, and self-healing ability. <i>Composites Part A: Applied Science and Manufacturing</i> , 2020 , 133, 105854	8.4	15
143	Revealing the morphological architecture of a shape memory polyurethane by simulation. <i>Scientific Reports</i> , 2016 , 6, 29180	4.9	15
142	Bioinspired Fabrication of Polyurethane/Regenerated Silk Fibroin Composite Fibres with Tubuliform Silk-Like Flat Stress?Strain Behaviour. <i>Polymers</i> , 2018 , 10,	4.5	15
141	Interband plasmon of graphene: strong small-size and field-enhancement effects. <i>Physical Chemistry Chemical Physics</i> , 2014 , 16, 23483-91	3.6	15
140	Stress memory materials and their fundamental platform. <i>Journal of Materials Chemistry A</i> , 2017 , 5, 503-511	15	15
139	Theoretical studies on hydrogen-bonding interactions in hard segments of shape memory polyurethane-III: Isophorone diisocyanate. <i>Journal of Molecular Structure</i> , 2014 , 1072, 13-19	3.4	15
138	Effect of seams on fabric drape. <i>International Journal of Clothing Science and Technology</i> , 1997 , 9, 220-227	7	15
137	Spider Silk: A Smart Biopolymer with Water Switchable Shape Memory Effects -Unraveling the Mystery of Supercontraction. <i>Research Journal of Textile and Apparel</i> , 2013 , 17, 1-9	1.1	14
136	Comparison of surface plasmon resonance responses to dry/wet air for Ag, Cu, and Au/SiO ₂ . <i>Applied Optics</i> , 2012 , 51, 1357-60	1.7	14
135	Drape Behavior of Woven Fabrics with Seams. <i>Textile Research Journal</i> , 1998 , 68, 913-919	1.7	14
134	Through-thickness air permeability of woven fabric under low pressure compression. <i>Textile Research Journal</i> , 2015 , 85, 1732-1742	1.7	13

133	Path-dependent and selective multi-shape recovery of a polyurethane/cellulose-whisker nanocomposite. <i>Materials Letters</i> , 2012 , 89, 172-175	3.3	13
132	Characterization about the shape memory behaviour of woven fabrics. <i>Transactions of the Institute of Measurement and Control</i> , 2007 , 29, 301-319	1.8	13
131	Structure Evolution of Polyamide 1212 during the Uniaxial Stretching Process: In Situ Synchrotron Wide-Angle X-ray Diffraction and Small-Angle X-ray Scattering Analysis. <i>Industrial & Engineering Chemistry Research</i> , 2016 , 55, 7621-7627	3.9	12
130	In-Situ Incorporation of Alkyl-Grafted Silica into Waterborne Polyurethane with High Solid Content for Enhanced Physical Properties of Coatings. <i>Polymers</i> , 2018 , 10,	4.5	12
129	Voltammetric determination of theophylline in pharmaceutical formulations using aligned carbon nanotubes (ACNTs) film modified electrode. <i>Journal of Analytical Chemistry</i> , 2013 , 68, 694-699	1.1	12
128	Polyurethane: A Shape Memory Polymer (SMP) 2017 ,		12
127	Patterning technique for expanding color variety of Jacquard fabrics in alignment with shaded weave structures. <i>Textile Research Journal</i> , 2014 , 84, 1820-1828	1.7	12
126	Modeling the Creasing Properties of Woven Fabrics. <i>Textile Research Journal</i> , 2000 , 70, 247-255	1.7	12
125	Cross-Linked Cellulose Membranes with Robust Mechanical Property, Self-Adaptive Breathability, and Excellent Biocompatibility. <i>ACS Sustainable Chemistry and Engineering</i> , 2019 , 7, 19799-19806	8.3	12
124	Robust waterproof and self-adaptive breathable membrane with heat retention property for intelligent protective cloth. <i>Progress in Organic Coatings</i> , 2019 , 137, 105303	4.8	11
123	Shape Memory-Enhanced Electrical Self-Healing of Stretchable Electrodes. <i>Applied Sciences (Switzerland)</i> , 2018 , 8, 392	2.6	11
122	Study on the bagging behavior of knitted fabrics by shape memory polyurethane fiber. <i>Journal of the Textile Institute</i> , 2013 , 104, 1230-1236	1.5	11
121	Synthesis and Properties of Shape Memory Poly(Benzyl-l-Glutamate)-b-Poly(Propylene Glycol)-b-Poly(Benzyl-l-Glutamate). <i>Applied Sciences (Switzerland)</i> , 2017 , 7, 1258	2.6	11
120	Ultrafast-Response/Recovery Flexible Piezoresistive Sensors with DNA-Like Double Helix Yarns for Epidermal Pulse Monitoring. <i>Advanced Materials</i> , 2021 , e2104313	24	11
119	Shape Memory Ankle-Foot Orthoses. <i>ACS Applied Materials & Interfaces</i> , 2018 , 10, 32935-32941	9.5	11
118	Direct-Ink Written Shape-Morphing Film with Rapid and Programmable Multimotion. <i>Advanced Materials Technologies</i> , 2020 , 5, 1900974	6.8	10
117	Modular Assembly of a Conserved Repetitive Sequence in the Spider Eggcase Silk: From Gene to Fiber. <i>ACS Biomaterials Science and Engineering</i> , 2018 , 4, 2748-2757	5.5	10
116	Hierarchical ZnO films with microplate/nanohole structures induced by precursor concentration and colloidal templates, their superhydrophobicity, and enhanced photocatalytic performance. <i>Journal of Materials Research</i> , 2014 , 29, 115-122	2.5	10

115	Surface Plasmon Resonance in Periodic Hexagonal Lattice Arrays of Silver Nanodisks. <i>Journal of Nanomaterials</i> , 2013 , 2013, 1-6	3.2	10
114	Oxygen-induced enhancement of surface plasmon resonance of silver nanoparticles for silver-coated soda-lime glass. <i>Journal of Physics Condensed Matter</i> , 2005 , 17, 5349-5354	1.8	10
113	A programmable, fast-fixing, osteo-regenerative, biomechanically robust bone screw. <i>Acta Biomaterialia</i> , 2020 , 103, 293-305	10.8	10
112	Constituent analysis of stress memory in semicrystalline polyurethane. <i>Journal of Polymer Science, Part B: Polymer Physics</i> , 2016 , 54, 941-947	2.6	9
111	IDSS: a novel representation for woven fabrics. <i>IEEE Transactions on Visualization and Computer Graphics</i> , 2013 , 19, 420-32	4	9
110	Topographical Control of Preosteoblast Culture by Shape Memory Foams . <i>Advanced Engineering Materials</i> , 2017 , 19, 1600343	3.5	9
109	Classifying Fleece Fabric Appearance by Extended Morphological Fractal Analysis. <i>Textile Research Journal</i> , 2002 , 72, 879-884	1.7	9
108	Entropy-Based Fabric Weave Pattern Indexing and Classification. <i>International Journal of Cognitive Informatics and Natural Intelligence</i> , 2010 , 4, 76-92	0.9	9
107	Knit Architecture for Water-Actuating Woolen Knitwear and Its Personalized Thermal Management. <i>ACS Applied Materials & Interfaces</i> , 2021 , 13, 6298-6308	9.5	9
106	Designing of advanced smart medical stocking using stress-memory polymeric filaments for pressure control and massaging. <i>Materials Science and Engineering C</i> , 2018 , 91, 263-273	8.3	9
105	Isocyanate Modified GO Shape-Memory Polyurethane Composite. <i>Polymers</i> , 2020 , 12,	4.5	8
104	Tailor-made spider-eggcase-silk spheres for efficient lysosomal drug delivery.. <i>RSC Advances</i> , 2018 , 8, 9394-9401	3.7	8
103	Mechanically strong shape memory polyurethane for water vapour permeable membranes. <i>Polymer International</i> , 2018 , 67, 1386-1392	3.3	8
102	Does competitive hydrogen bonding induce self-assembly of A-b-B/C blend?. <i>Polymer</i> , 2012 , 53, 4718-4736	3.6	8
101	Formaldehyde sensor based on polypyrrole/Cyclodextrin. <i>Journal of Controlled Release</i> , 2011 , 152 Suppl 1, e211-3	11.7	8
100	Bending Behavior of Woven Fabrics with Vertical Seams. <i>Textile Research Journal</i> , 2000 , 70, 148-153	1.7	8
99	Random and aligned electrospun gelatin nanofiber mats for human mesenchymal stem cells. <i>Materials Research Innovations</i> , 2019 , 23, 208-215	1.9	8
98	Tensile-relaxation study of camel hair fiber at elastic stretching region: Analytical model and experiment. <i>Composites Part B: Engineering</i> , 2016 , 91, 559-568	10	7

97	Enhanced Tunable Light Absorption in Nanostructured Si Arrays Based on Double-Quarter-Wavelength Resonance. <i>Advanced Optical Materials</i> , 2019 , 7, 1900845	8.1	7
96	Mechanically adaptive cellulose-poly(acrylic acid) polymeric composites in wet/dry cycles. <i>Journal of Applied Polymer Science</i> , 2013 , 127, 675-681	2.9	7
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