

Andreas Lendlein

List of Publications by Year in descending order

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646
papers

27,199
citations

11608

70
h-index

7718

150
g-index

678
all docs

678
docs citations

678
times ranked

17934
citing authors

#	ARTICLE	IF	CITATIONS
1	Shape-Memory Polymers. <i>Angewandte Chemie - International Edition</i> , 2002, 41, 2034.	7.2	2,287
2	Biodegradable, Elastic Shape-Memory Polymers for Potential Biomedical Applications. <i>Science</i> , 2002, 296, 1673-1676.	6.0	1,971
3	Light-induced shape-memory polymers. <i>Nature</i> , 2005, 434, 879-882.	13.7	1,808
4	Shape-memory polymers. <i>Materials Today</i> , 2007, 10, 20-28.	8.3	1,078
5	Multifunctional Shape-Memory Polymers. <i>Advanced Materials</i> , 2010, 22, 3388-3410.	11.1	835
6	Initiation of shape-memory effect by inductive heating of magnetic nanoparticles in thermoplastic polymers. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2006, 103, 3540-3545.	3.3	735
7	Protein Interactions with Polymer Coatings and Biomaterials. <i>Angewandte Chemie - International Edition</i> , 2014, 53, 8004-8031.	7.2	614
8	Polymers Move in Response to Light. <i>Advanced Materials</i> , 2006, 18, 1471-1475.	11.1	565
9	Reprogrammable recovery and actuation behaviour of shape-memory polymers. <i>Nature Reviews Materials</i> , 2019, 4, 116-133.	23.3	450
10	Polymeric triple-shape materials. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2006, 103, 18043-18047.	3.3	440
11	Bcl-2 Engineered MSCs Inhibited Apoptosis and Improved Heart Function. <i>Stem Cells</i> , 2007, 25, 2118-2127.	1.4	410
12	Reversible Bidirectional Shape-Memory Polymers. <i>Advanced Materials</i> , 2013, 25, 4466-4469.	11.1	410
13	Shape-memory polymers as a technology platform for biomedical applications. <i>Expert Review of Medical Devices</i> , 2010, 7, 357-379.	1.4	382
14	Actively moving polymers. <i>Soft Matter</i> , 2007, 3, 58-67.	1.2	300
15	Temperature-memory polymer actuators. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2013, 110, 12555-12559.	3.3	273
16	Shape-Memory Hydrogels: Evolution of Structural Principles To Enable Shape Switching of Hydrophilic Polymer Networks. <i>Accounts of Chemical Research</i> , 2017, 50, 723-732.	7.6	245
17	Biodegradable, Amorphous Copolyester-Urethane Networks Having Shape-Memory Properties. <i>Angewandte Chemie - International Edition</i> , 2005, 44, 1188-1192.	7.2	226
18	Evaluation of a degradable shape-memory polymer network as matrix for controlled drug release. <i>Journal of Controlled Release</i> , 2009, 138, 243-250.	4.8	215

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19	Shape-memory polymer networks from oligo(ϵ -caprolactone)dimethacrylates. <i>Journal of Polymer Science Part A</i> , 2005, 43, 1369-1381.	2.5	206
20	Design and preparation of polymeric scaffolds for tissue engineering. <i>Expert Review of Medical Devices</i> , 2006, 3, 835-851.	1.4	200
21	Reversible Triple-Shape Effect of Polymer Networks Containing Polypentadecalactone and Poly(ϵ -caprolactone) Segments. <i>Advanced Materials</i> , 2010, 22, 3424-3429.	11.1	197
22	Triple-shape polymers. <i>Journal of Materials Chemistry</i> , 2010, 20, 3335.	6.7	186
23	Polymer Networks Combining Controlled Drug Release, Biodegradation, and Shape Memory Capability. <i>Advanced Materials</i> , 2009, 21, 3394-3398.	11.1	163
24	One-Step Process for Creating Triple-Shape Capability of AB Polymer Networks. <i>Advanced Functional Materials</i> , 2009, 19, 102-108.	7.8	159
25	The contemporary role of ϵ -caprolactone chemistry to create advanced polymer architectures. <i>Polymer</i> , 2013, 54, 4333-4350.	1.8	154
26	Shape memory nanocomposite fibers for untethered high-energy microengines. <i>Science</i> , 2019, 365, 155-158.	6.0	151
27	Shape-memory polymers. <i>Angewandte Chemie - International Edition</i> , 2002, 41, 2035-57.	7.2	149
28	Non-contact actuation of triple-shape effect in multiphase polymer network nanocomposites in alternating magnetic field. <i>Journal of Materials Chemistry</i> , 2010, 20, 3404.	6.7	139
29	Dual-shape properties of triple-shape polymer networks with crystallizable network segments and grafted side chains. <i>Journal of Materials Chemistry</i> , 2007, 17, 2885.	6.7	137
30	Temperature-Memory Polymer Networks with Crystallizable Controlling Units. <i>Advanced Materials</i> , 2011, 23, 4058-4062.	11.1	136
31	Knowledge-Based Approach towards Hydrolytic Degradation of Polymer-Based Biomaterials. <i>Advanced Materials</i> , 2009, 21, 3237-3245.	11.1	134
32	Temperature-Memory Effect of Copolyesterurethanes and their Application Potential in Minimally Invasive Medical Technologies. <i>Advanced Functional Materials</i> , 2012, 22, 3057-3065.	7.8	132
33	Shape-memory polymers with multiple transitions: complex actively moving polymers. <i>Soft Matter</i> , 2013, 9, 1744-1755.	1.2	125
34	Shape-Memory Polymer Networks from Oligo[(ϵ -hydroxycaproate)-co-glycolate]dimethacrylates and Butyl Acrylate with Adjustable Hydrolytic Degradation Rate. <i>Biomacromolecules</i> , 2007, 8, 1018-1027.	2.6	121
35	Stimuli-Sensitive Polymers. <i>Advanced Materials</i> , 2010, 22, 3344-3347.	11.1	120
36	Melt-Processable Shape-Memory Hydrogels with Self-Healing Ability of High Mechanical Strength. <i>Macromolecules</i> , 2016, 49, 7442-7449.	2.2	120

#	ARTICLE	IF	CITATIONS
37	Copolymer Networks Based on Poly(ϵ -pentadecalactone) and Poly(ϵ -caprolactone) Segments as a Versatile Triple-Shape Polymer System. <i>Advanced Functional Materials</i> , 2010, 20, 3583-3594.	7.8	119
38	Degradable, Multifunctional Cardiovascular Implants: Challenges and Hurdles. <i>MRS Bulletin</i> , 2010, 35, 607-613.	1.7	116
39	Nanocarriers for drug delivery into and through the skin – Do existing technologies match clinical challenges?. <i>Journal of Controlled Release</i> , 2016, 242, 3-15.	4.8	116
40	Controlling the Switching Temperature of Biodegradable, Amorphous, Shape-Memory Poly(<i>rac</i> -lactide)urethane Networks by Incorporation of Different Comonomers. <i>Biomacromolecules</i> , 2009, 10, 975-982.	2.6	113
41	Shape-memory capability of binary multiblock copolymer blends with hard and switching domains provided by different components. <i>Soft Matter</i> , 2009, 5, 676-684.	1.2	110
42	Biodegradable Multiblock Copolymers Based on Oligodepsipeptides with Shape-Memory Properties. <i>Macromolecular Bioscience</i> , 2009, 9, 45-54.	2.1	108
43	Degradable shape-memory polymer networks from oligo[(<i>l</i> -lactide)- <i>ran</i> -glycolide]dimethacrylates. <i>Soft Matter</i> , 2007, 3, 901.	1.2	104
44	AB-polymer networks based on oligo(ϵ -caprolactone) segments showing shape-memory properties. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2001, 98, 842-847.	3.3	100
45	One Step Creation of Multifunctional 3D Architected Hydrogels Inducing Bone Regeneration. <i>Advanced Materials</i> , 2015, 27, 1738-1744.	11.1	100
46	Magnetic Memory Effect of Nanocomposites. <i>Advanced Functional Materials</i> , 2012, 22, 184-191.	7.8	98
47	Gelatin-based Hydrogel Degradation and Tissue Interaction <i>in vivo</i> : Insights from Multimodal Preclinical Imaging in Immunocompetent Nude Mice. <i>Theranostics</i> , 2016, 6, 2114-2128.	4.6	96
48	Investigation of parameters to achieve temperatures required to initiate the shape-memory effect of magnetic nanocomposites by inductive heating. <i>Smart Materials and Structures</i> , 2009, 18, 025011.	1.8	95
49	An entropy-elastic gelatin-based hydrogel system. <i>Journal of Materials Chemistry</i> , 2010, 20, 8875.	6.7	94
50	Stretched Poly(acrylonitrile) as a Scalable Alignment Medium for DMSO. <i>Journal of the American Chemical Society</i> , 2007, 129, 6080-6081.	6.6	92
51	Recent Trends in the Chemistry of Shape-Memory Polymers. <i>Macromolecular Chemistry and Physics</i> , 2013, 214, 527-536.	1.1	92
52	Biocompatibility and inflammatory response <i>in vitro</i> and <i>in vivo</i> to gelatin-based biomaterials with tailorable elastic properties. <i>Biomaterials</i> , 2014, 35, 9755-9766.	5.7	89
53	Shape-Memory Polymers as Drug Carriers – A Multifunctional System. <i>Pharmaceutical Research</i> , 2010, 27, 527-529.	1.7	88
54	Characterization Methods for Shape-Memory Polymers. <i>Advances in Polymer Science</i> , 2009, , 97-145.	0.4	87

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55	Tissue-compatible multiblock copolymers for medical applications, controllable in degradation rate and mechanical properties. <i>Macromolecular Chemistry and Physics</i> , 1998, 199, 2785-2796.	1.1	86
56	A thermosensitive morphine-containing hydrogel for the treatment of large-scale skin wounds. <i>International Journal of Pharmaceutics</i> , 2013, 444, 96-102.	2.6	86
57	Multifunctional Hybrid Nanocomposites with Magnetically Controlled Reversible Shape-Memory Effect. <i>Advanced Materials</i> , 2013, 25, 5730-5733.	11.1	83
58	From Advanced Biomedical Coatings to Multifunctionalized Biomaterials. <i>Journal of Macromolecular Science - Reviews in Macromolecular Chemistry and Physics</i> , 2006, 46, 347-375.	2.2	82
59	Selective enzymatic degradation of poly(ϵ -caprolactone) containing multiblock copolymers. <i>European Journal of Pharmaceutics and Biopharmaceutics</i> , 2008, 68, 46-56.	2.0	82
60	Materials in Regenerative Medicine. <i>Advanced Materials</i> , 2009, 21, 3231-3234.	11.1	82
61	Multifunctional materials: concepts, function-structure relationships, knowledge-based design, translational materials research. <i>Multifunctional Materials</i> , 2018, 1, 010201.	2.4	82
62	Kinetics and dynamics of thermally-induced shape-memory behavior of crosslinked short-chain branched polyethylenes. <i>Polymer</i> , 2009, 50, 5490-5498.	1.8	81
63	Synthesis, Shape-Memory Functionality and Hydrolytical Degradation Studies on Polymer Networks from Poly(rac-lactide)-b-poly(propylene oxide)-b-poly(rac-lactide) dimethacrylates. <i>Advanced Engineering Materials</i> , 2006, 8, 439-445.	1.6	80
64	Haemocompatibility testing of biomaterials using human platelets. <i>Clinical Hemorheology and Microcirculation</i> , 2013, 53, 97-115.	0.9	79
65	Shape-Memory Polymer Composites. <i>Advances in Polymer Science</i> , 2009, , 41-95.	0.4	78
66	Fabrication of reprogrammable shape-memory polymer actuators for robotics. <i>Science Robotics</i> , 2018, 3, .	9.9	78
67	Shape-Memory Polymers and Shape-Changing Polymers. <i>Advances in Polymer Science</i> , 2009, , 1-40.	0.4	77
68	Recent advances in degradable lactide-based shape-memory polymers. <i>Advanced Drug Delivery Reviews</i> , 2016, 107, 136-152.	6.6	77
69	FormgedÄchnispolymer. <i>Angewandte Chemie</i> , 2002, 114, 2138.	1.6	76
70	Quantifying the Shape-Memory Effect of Polymers by Cyclic Thermomechanical Tests. <i>Polymer Reviews</i> , 2013, 53, 6-40.	5.3	76
71	Intracardiac injection of matrigel induces stem cell recruitment and improves cardiac functions in a rat myocardial infarction model. <i>Journal of Cellular and Molecular Medicine</i> , 2011, 15, 1310-1318.	1.6	72
72	The Next 100 Years of Polymer Science. <i>Macromolecular Chemistry and Physics</i> , 2020, 221, 2000216.	1.1	69

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73	Progress in Depsipeptide-Based Biomaterials. <i>Macromolecular Bioscience</i> , 2010, 10, 1008-1021.	2.1	68
74	Shape-Memory Nanocomposites with Magnetically Adjustable Apparent Switching Temperatures. <i>Advanced Materials</i> , 2011, 23, 4157-4162.	11.1	67
75	Copolymer Networks From Oligo(ϵ -caprolactone) and <i>n</i> -Butyl Acrylate Enable a Reversible Bidirectional Shape-Memory Effect at Human Body Temperature. <i>Macromolecular Rapid Communications</i> , 2015, 36, 880-884.	2.0	67
76	Hydroxy-telechelic copolyesters with well defined sequence structure through ring-opening polymerization. <i>Macromolecular Chemistry and Physics</i> , 2000, 201, 1067-1076.	1.1	66
77	Enhanced thoracic gene delivery by magnetic nanobead-mediated vector. <i>Journal of Gene Medicine</i> , 2008, 10, 897-909.	1.4	66
78	Preparation and biological evaluation of multifunctional PLGA-nanoparticles designed for photoacoustic imaging. <i>Nanomedicine: Nanotechnology, Biology, and Medicine</i> , 2011, 7, 228-237.	1.7	66
79	Bioperspectives for Shape-Memory Polymers as Shape Programmable, Active Materials. <i>Biomacromolecules</i> , 2019, 20, 3627-3640.	2.6	66
80	Relaxation based modeling of tunable shape recovery kinetics observed under isothermal conditions for amorphous shape-memory polymers. <i>Polymer</i> , 2010, 51, 6212-6218.	1.8	64
81	In vitro cytotoxicity testing of AB-polymer networks based on oligo(ϵ -caprolactone) segments after different sterilization techniques. <i>Journal of Biomedical Materials Research Part B</i> , 2003, 67B, 722-731.	3.0	63
82	Biocompatibility testing of novel multifunctional polymeric biomaterials for tissue engineering applications in head and neck surgery: an overview. <i>European Archives of Oto-Rhino-Laryngology</i> , 2006, 263, 215-222.	0.8	63
83	Amorphous, Elastic AB Copolymer Networks from Acrylates and Poly[(<i>L</i> -lactide)- <i>ran</i> -glycolide]dimethacrylates. <i>Advanced Engineering Materials</i> , 2008, 10, 494-502.	1.6	63
84	Progress in actively moving polymers. <i>Journal of Materials Chemistry</i> , 2010, 20, 3332.	6.7	63
85	Mechanically active scaffolds from radio-opaque shape-memory polymer-based composites. <i>Polymers for Advanced Technologies</i> , 2011, 22, 180-189.	1.6	62
86	Gelatin functionalization with tyrosine derived moieties to increase the interaction with hydroxyapatite fillers. <i>Acta Biomaterialia</i> , 2011, 7, 1693-1701.	4.1	60
87	Design principles for polymers as substratum for adherent cells. <i>Journal of Materials Chemistry</i> , 2010, 20, 8789.	6.7	59
88	Polyethylenimine-mediated gene delivery into human bone marrow mesenchymal stem cells from patients. <i>Journal of Cellular and Molecular Medicine</i> , 2011, 15, 1989-1998.	1.6	59
89	Shape-memory properties of magnetically active triple-shape nanocomposites based on a grafted polymer network with two crystallizable switching segments. <i>EXPRESS Polymer Letters</i> , 2012, 6, 26-40.	1.1	58
90	Bone regeneration induced by a 3D architected hydrogel in a rat critical-size calvarial defect. <i>Biomaterials</i> , 2017, 113, 158-169.	5.7	58

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91	Biodegradable Shape-Memory Polymer Networks: A Characterization with Solid-State NMR. <i>Macromolecules</i> , 2005, 38, 3793-3799.	2.2	57
92	Formation and size distribution of pores in poly(ϵ -caprolactone) foams prepared by pressure quenching using supercritical CO ₂ . <i>Journal of Supercritical Fluids</i> , 2012, 61, 175-190.	1.6	57
93	Shape-Memory Effect of Micro-Nanoparticles from Thermoplastic Multiblock Copolymers. <i>Small</i> , 2014, 10, 83-87.	5.2	57
94	An annulus fibrosus closure device based on a biodegradable shape-memory polymer network. <i>Biomaterials</i> , 2013, 34, 8105-8113.	5.7	56
95	Efficient synthesis of pure monotosylated beta-cyclodextrin and its dimers. <i>Carbohydrate Research</i> , 2013, 381, 59-63.	1.1	56
96	Hydrolytic Degradation of Phase-Segregated Multiblock Copoly(ester urethane)s Containing Weak Links. <i>Macromolecular Chemistry and Physics</i> , 2001, 202, 2702-2711.	1.1	55
97	Multicomponent protein patterning of material surfaces. <i>Journal of Materials Chemistry</i> , 2010, 20, 7322.	6.7	55
98	Layer-by-Layer Deposition of Polyelectrolytes – A Versatile Tool for the In Vivo Repair of Blood Vessels. <i>Angewandte Chemie - International Edition</i> , 2004, 43, 926-928.	7.2	54
99	In Vitro Thrombogenicity Testing of Biomaterials. <i>Advanced Healthcare Materials</i> , 2019, 8, e1900527.	3.9	54
100	Controlled Change of Mechanical Properties during Hydrolytic Degradation of Polyester Urethane Networks. <i>Macromolecular Chemistry and Physics</i> , 2010, 211, 182-194.	1.1	52
101	Two stages in three-dimensional <i>in vitro</i> growth of tissue generated by osteoblastlike cells. <i>Biointerphases</i> , 2010, 5, 45-52.	0.6	52
102	Interplay between stiffness and degradation of architected gelatin hydrogels leads to differential modulation of chondrogenesis <i>in vitro</i> and <i>in vivo</i> . <i>Acta Biomaterialia</i> , 2018, 69, 83-94.	4.1	52
103	Shape-memory properties of electrospun non-woven fabrics prepared from degradable polyesterurethanes containing poly(ϵ -pentadecalactone) hard segments. <i>European Polymer Journal</i> , 2012, 48, 1866-1874.	2.6	51
104	Magnetically controlled shape-memory effects of hybrid nanocomposites from oligo(ϵ -pentadecalactone) and covalently integrated magnetite nanoparticles. <i>Polymer</i> , 2014, 55, 5953-5960.	1.8	51
105	Adjusting shape-memory properties of amorphous polyether urethanes and radio-opaque composites thereof by variation of physical parameters during programming. <i>Smart Materials and Structures</i> , 2010, 19, 065019.	1.8	49
106	Memory-effects of magnetic nanocomposites. <i>Nanoscale</i> , 2012, 4, 6181.	2.8	49
107	Influence of Tyrosine-Derived Moieties and Drying Conditions on the Formation of Helices in Gelatin. <i>Biomacromolecules</i> , 2011, 12, 75-81.	2.6	48
108	Grafting of poly(ethylene glycol) monoacrylates on polycarbonateurethane by UV initiated polymerization for improving hemocompatibility. <i>Journal of Materials Science: Materials in Medicine</i> , 2013, 24, 61-70.	1.7	48

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109	Thermally induced shape-memory effects in polymers: Quantification and related modeling approaches. <i>Journal of Polymer Science, Part B: Polymer Physics</i> , 2013, 51, 621-637.	2.4	48
110	Determination of water/polymer interaction parameter for membrane-forming systems by sorption measurement and a fitting technique. <i>Journal of Membrane Science</i> , 2005, 265, 1-12.	4.1	47
111	Degradable, Multifunctional Polymeric Biomaterials with Shape-Memory. <i>Materials Science Forum</i> , 2005, 492-493, 219-224.	0.3	47
112	Engineering biodegradable micelles of polyethylenimine-based amphiphilic block copolymers for efficient DNA and siRNA delivery. <i>Journal of Controlled Release</i> , 2016, 242, 71-79.	4.8	47
113	Poly(ether imide) Membranes Modified with Poly(ethylene imine) as Potential Carriers for Epidermal Substitutes. <i>Macromolecular Bioscience</i> , 2006, 6, 274-284.	2.1	46
114	Reprogrammable, magnetically controlled polymeric nanocomposite actuators. <i>Materials Horizons</i> , 2018, 5, 861-867.	6.4	46
115	Hydrolytic degradation of poly(rac-lactide) and poly[(rac-lactide)-co-glycolide] at the air-water interface. <i>Surface and Interface Analysis</i> , 2007, 39, 740-746.	0.8	44
116	Controlled Drug Release from Biodegradable Shape-Memory Polymers. <i>Advances in Polymer Science</i> , 2009, , 177-205.	0.4	44
117	Cytocompatibility testing of cell culture modules fabricated from specific candidate biomaterials using injection molding. <i>Journal of Biotechnology</i> , 2010, 148, 76-82.	1.9	44
118	Viability of Human Mesenchymal Stem Cells Seeded on Crosslinked Entropy-Elastic Gelatin-Based Hydrogels. <i>Macromolecular Bioscience</i> , 2012, 12, 312-321.	2.1	44
119	Shape-Memory Properties and Degradation Behavior of Multifunctional Electro-Spun Scaffolds. <i>International Journal of Artificial Organs</i> , 2011, 34, 225-230.	0.7	42
120	Thermally-Induced Triple-Shape Hydrogels: Soft Materials Enabling Complex Movements. <i>ACS Applied Materials & Interfaces</i> , 2016, 8, 28068-28076.	4.0	42
121	Progress in biopolymer-based biomaterials and their application in controlled drug delivery. <i>Expert Review of Medical Devices</i> , 2013, 10, 813-833.	1.4	41
122	Controlling Major Cellular Processes of Human Mesenchymal Stem Cells using Microwell Structures. <i>Advanced Healthcare Materials</i> , 2014, 3, 1991-2003.	3.9	41
123	Nanoparticles Complexed with Gene Vectors to Promote Proliferation of Human Vascular Endothelial Cells. <i>Advanced Healthcare Materials</i> , 2015, 4, 1225-1235.	3.9	41
124	Shape-Memory Polymers and Shape-Changing Polymers. <i>Advances in Polymer Science</i> , 2009, , 1-40.	0.4	41
125	Enzymatic Chain Scission Kinetics of Poly(μ -caprolactone) Monolayers. <i>Langmuir</i> , 2007, 23, 12202-12207.	1.6	40
126	Comparing techniques for drug loading of shape-memory polymer networks - effect on their functionalities. <i>European Journal of Pharmaceutical Sciences</i> , 2010, 41, 136-147.	1.9	39

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127	Knowledge-Based Tailoring of Gelatin-Based Materials by Functionalization with Tyrosine-Derived Groups. <i>Macromolecular Rapid Communications</i> , 2010, 31, 1534-1539.	2.0	39
128	Surface Functionalization of Poly(ether imide) Membranes with Linear, Methylated Oligoglycerols for Reducing Thrombogenicity. <i>Macromolecular Rapid Communications</i> , 2012, 33, 1487-1492.	2.0	39
129	Microwave plasma surface modification of silicone elastomer with allylamine for improvement of biocompatibility. <i>Journal of Biomedical Materials Research - Part A</i> , 2008, 86A, 209-219.	2.1	38
130	Functionalization of Polycarbonate Surfaces by Grafting <sc>PEG</sc> and Zwitterionic Polymers with a Multicomb Structure. <i>Macromolecular Bioscience</i> , 2013, 13, 1681-1688.	2.1	38
131	Adhesion and activation of platelets from subjects with coronary artery disease and apparently healthy individuals on biomaterials. <i>Journal of Biomedical Materials Research - Part B Applied Biomaterials</i> , 2016, 104, 210-217.	1.6	38
132	Influence of fiber orientation in electrospun polymer scaffolds on viability, adhesion and differentiation of articular chondrocytes. <i>Clinical Hemorheology and Microcirculation</i> , 2012, 52, 325-336.	0.9	37
133	Photocrosslinked Co-Networks from Glycidylmethacrylated Gelatin and Poly(ethylene glycol) Methacrylates. <i>Macromolecular Bioscience</i> , 2012, 12, 484-493.	2.1	37
134	Roadmap on soft robotics: multifunctionality, adaptability and growth without borders. <i>Multifunctional Materials</i> , 2022, 5, 032001.	2.4	37
135	Preparation of highly asymmetric hollow fiber membranes from poly(ether imide) by a modified dry-wet phase inversion technique using a triple spinneret. <i>Journal of Membrane Science</i> , 2005, 262, 69-80.	4.1	35
136	Shape-Memory Effect in Polymers. <i>Macromolecular Chemistry and Physics</i> , 2013, 214, 1175-1177.	1.1	35
137	Influence of the addition of water to amorphous switching domains on the simulated shape-memory properties of poly(L-lactide). <i>Polymer</i> , 2013, 54, 4204-4211.	1.8	35
138	Cactus-inspired design principles for soft robotics based on 3D printed hydrogel-elastomer systems. <i>Materials and Design</i> , 2021, 202, 109515.	3.3	35
139	Shape-Memory Polymers for Biomedical Applications. <i>Advances in Science and Technology</i> , 2008, 54, 96-102.	0.2	34
140	Self-Assembly of Polyethylenimine-Modified Biodegradable Complex Micelles as Gene Transfer Vector for Proliferation of Endothelial Cells. <i>Macromolecular Chemistry and Physics</i> , 2014, 215, 2463-2472.	1.1	34
141	Fundamental insights in PLGA degradation from thin film studies. <i>Journal of Controlled Release</i> , 2020, 319, 276-284.	4.8	34
142	Synthesis and characterization of 1,10-dihydroxy-telechelic oligo(p-dioxanone). <i>Journal of Materials Chemistry</i> , 2007, 17, 4050.	6.7	33
143	Formation of poly(μ -caprolactone) scaffolds loaded with small molecules by integrated processes. <i>Journal of Biomechanics</i> , 2007, 40, S80-S88.	0.9	33
144	AB-polymer Networks with Cooligoester and Poly(<i>n</i> -butyl acrylate) Segments as a Multifunctional Matrix for Controlled Drug Release. <i>Macromolecular Bioscience</i> , 2010, 10, 1063-1072.	2.1	33

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145	Genetic engineering of mesenchymal stem cells by non-viral gene delivery. <i>Clinical Hemorheology and Microcirculation</i> , 2014, 58, 19-48.	0.9	33
146	Platelets and coronary artery disease: Interactions with the blood vessel wall and cardiovascular devices. <i>Biointerphases</i> , 2016, 11, 029702.	0.6	33
147	mRNA Transfection-Induced Activation of Primary Human Monocytes and Macrophages: Dependence on Carrier System and Nucleotide Modification. <i>Scientific Reports</i> , 2020, 10, 4181.	1.6	33
148	Hyaluronic Acid-Based Hydrogels Crosslinked by Copper-Catalyzed Azide-Alkyne Cycloaddition with Tailorable Mechanical Properties. <i>International Journal of Artificial Organs</i> , 2011, 34, 192-197.	0.7	32
149	Demonstrating the Influence of Water on Shape-Memory Polymer Networks Based on Poly[(Rac-Lactide)-Co-Glycolide] Segments in Vitro. <i>International Journal of Artificial Organs</i> , 2011, 34, 172-179.	0.7	31
150	Shape-Memory Hydrogels with Switching Segments Based on Oligo(<i>ε</i> -pentadecalactone). <i>Macromolecular Materials and Engineering</i> , 2012, 297, 1184-1192.	1.7	31
151	Poly(ethylene glycol) Grafting to Poly(ether imide) Membranes: Influence on Protein Adsorption and Thrombocyte Adhesion. <i>Macromolecular Bioscience</i> , 2013, 13, 1720-1729.	2.1	31
152	Changes in platelet morphology and function during 24 hours of storage. <i>Clinical Hemorheology and Microcirculation</i> , 2014, 58, 159-170.	0.9	31
153	Biofunction of Polydopamine Coating in Stem Cell Culture. <i>ACS Applied Materials & Interfaces</i> , 2021, 13, 10748-10759.	4.0	31
154	Hemocompatible polyurethane/gelatin-heparin nanofibrous scaffolds formed by a bi-layer electrospinning technique as potential artificial blood vessels. <i>Frontiers of Chemical Science and Engineering</i> , 2011, 5, 392-400.	2.3	30
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