Karl Kratz

List of Publications by Year
in descending order

191	5,847	37	72
papers	citations	h-index	g-index
		94433	82547

198	198	198	5569
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	On Demand Sequential Release of (Sub)Micron Particles Controlled by Size and Temperature. Small, 2022, 18, e2104621.	10.0	2
2	In Vivo Performance of a Cell and Factor Free Multifunctional Fiber Mesh Modulating Postinfarct Myocardial Remodeling. Advanced Functional Materials, 2022, 32, .	14.9	3
3	Design and fabrication of fiber mesh actuators. Applied Materials Today, 2022, 29, 101562.	4.3	1
4	Electrical Actuation of Coated and Composite Fibers Based on Poly[ethyleneâ€•co â€(vinyl acetate)]. Macromolecular Materials and Engineering, 2021, 306, 2000579.	3.6	11
5	Anisotropy Effects in the Shapeâ€Memory Performance of Polymer Foams. Macromolecular Materials and Engineering, 2021, 306, 2000730.	3.6	4
6	Fiber diameter as design parameter for tailoring the macroscopic shape-memory performance of electrospun meshes. Materials and Design, 2021, 202, 109546.	7.0	12
7	Non-woven shape-memory polymer blend actuators. MRS Advances, 2021, 6, 781-785.	0.9	3
8	Origami hand for soft robotics driven by thermally controlled polymeric fiber actuators. MRS Communications, 2021, 11, 476-482.	1.8	8
9	Investigating the Phase-Morphology of PLLA-PCL Multiblock Copolymer / PDLA Blends Cross-linked Using Stereocomplexation. MRS Advances, 2020, 5, 699-707.	0.9	1
10	Polymeric sheet actuators with programmable bioinstructivity. Proceedings of the National Academy of Sciences of the United States of America, 2020, 117, 1895-1901.	7.1	13
11	Coaxial electrospinning of PEEU/gelatin to fiber meshes with enhanced mesenchymal stem cell attachment and proliferation. Clinical Hemorheology and Microcirculation, 2020, 74, 53-66.	1.7	12
12	Elasticity of fiber meshes from multiblock copolymers influences endothelial cell behavior. Clinical Hemorheology and Microcirculation, 2020, 74, 405-415.	1.7	5
13	Fine-tuning of Rat Mesenchymal Stem Cell Senescence via Microtopography of Polymeric Substrates. MRS Advances, 2020, 5, 643-653.	0.9	1
14	Predictive topography impact model for Electrical Discharge Machining (EDM) of metal surfaces. MRS Advances, 2020, 5, 621-632.	0.9	3
15	Controlling Actuation Performance in Physically Cross-Linked Polylactone Blends Using Polylactide Stereocomplexation. Biomacromolecules, 2020, 21, 338-348.	5.4	18
16	Strain recovery and stress relaxation behaviour of multiblock copolymer blends physically cross-linked with PLA stereocomplexation. Polymer, 2020, 209, 122984.	3.8	13
17	Polymeric Microcuboids Programmable for Temperatureâ€Memory. Macromolecular Materials and Engineering, 2020, 305, 2000333.	3.6	4
18	Surface hydrophilization of highly porous poly(ether imide) microparticles by covalent attachment of poly(vinyl pyrrolidone). Polymer, 2020, 210, 123045.	3.8	2

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19	Thin hydrogel coatings formation catalyzed by immobilized enzyme horseradish peroxidase. MRS Advances, 2020, 5, 773-783.	0.9	0
20	Shape-Memory Actuation of Individual Micro-/Nanofibers. MRS Advances, 2020, 5, 2391-2399.	0.9	2
21	In vivo biocompatibility study of degradable homo- versus multiblock copolymers and their (micro)structure compared to an established biomaterial. Clinical Hemorheology and Microcirculation, 2020, 75, 163-176.	1.7	8
22	Mechanical characterization of electrospun polyesteretherurethane (PEEU) meshes by atomic force microscopy. Clinical Hemorheology and Microcirculation, 2019, 73, 229-236.	1.7	4
23	The effect of stiffness variation of electrospun fiber meshes of multiblock copolymers on the osteogenic differentiation of human mesenchymal stem cells. Clinical Hemorheology and Microcirculation, 2019, 73, 219-228.	1.7	6
24	Temperature-induced evolution of microstructures on poly[ethylene-co-(vinyl acetate)] substrates switches their underwater wettability. Materials and Design, 2019, 163, 107530.	7.0	6
25	Temperature-controlled reversible pore size change of electrospun fibrous shape-memory polymer actuator based meshes. Smart Materials and Structures, 2019, 28, 055037.	3.5	27
26	Programmable microscale stiffness pattern of flat polymeric substrates by temperature-memory technology. MRS Communications, 2019, 9, 181-188.	1.8	2
27	Substrate-enzyme affinity-based surface modification strategy for endothelial cell-specific binding under shear stress. Clinical Hemorheology and Microcirculation, 2019, 75, 1-14.	1.7	2
28	Evaluation of human mesenchymal stem cell senescence, differentiation and secretion behavior cultured on polycarbonate cell culture inserts. Clinical Hemorheology and Microcirculation, 2019, 70, 573-583.	1.7	5
29	Modulating human mesenchymal stem cells using poly(n-butyl acrylate) networks in vitro with elasticity matching human arteries. Clinical Hemorheology and Microcirculation, 2019, 71, 277-289.	1.7	4
30	Endothelial cell migration, adhesion and proliferation on different polymeric substrates. Clinical Hemorheology and Microcirculation, 2019, 70, 511-529.	1.7	9
31	Collagen type-IV Langmuir and Langmuirâ€"SchÃfer layers as model biointerfaces to direct stem cell adhesion. Biomedical Materials (Bristol), 2019, 14, 024101.	3.3	11
32	Shape memory nanocomposite fibers for untethered high-energy microengines. Science, 2019, 365, 155-158.	12.6	151
33	Effects of extracts prepared from modified porous poly(ether imide) microparticulate absorbers on cytotoxicity, macrophage differentiation and proinflammatory behavior of human monocytic (THP-1) cells. Clinical Hemorheology and Microcirculation, 2018, 69, 175-185.	1.7	1
34	Albumin solder covalently bound to a polymer membrane: New approach to improve binding strength in laser tissue soldering in-vitro. Clinical Hemorheology and Microcirculation, 2018, 69, 317-326.	1.7	5
35	Influence of different surface treatments of poly(n-butyl acrylate) networks on fibroblasts adhesion, morphology and viability. Clinical Hemorheology and Microcirculation, 2018, 69, 305-316.	1.7	5
36	Implementing and Quantifying the Shapeâ€Memory Effect of Single Polymeric Micro/Nanowires with an Atomic Force Microscope. ChemPhysChem, 2018, 19, 2078-2084.	2.1	12

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37	Torsional Fiber Actuators from Shape-memory Polymer. MRS Advances, 2018, 3, 3861-3868.	0.9	7
38	Investigating the Roles of Crystallizable and Glassy Switching Segments within Multiblock Copolymer Shape-Memory Materials. MRS Advances, 2018, 3, 3741-3749.	0.9	0
39	Einfluss von Deformations- und Separationstemperatur auf das FormgedÃchtnisverhalten von polymeren Mikroquadern. Chemie-Ingenieur-Technik, 2018, 90, 1331-1332.	0.8	0
40	Reprogrammable, magnetically controlled polymeric nanocomposite actuators. Materials Horizons, 2018, 5, 861-867.	12.2	46
41	Extractable Free Polymer Chains Enhance Actuation Performance of Crystallizable Poly(Îµ-caprolactone) Networks and Enable Self-Healing. Polymers, 2018, 10, 255.	4.5	10
42	Comparison of two substrate materials used as negative control in endothelialization studies: Glass versus polymeric tissue culture plate. Clinical Hemorheology and Microcirculation, 2018, 69, 437-445.	1.7	5
43	Reversible Actuation of Thermoplastic Multiblock Copolymers with Overlapping Thermal Transitions of Crystalline and Glassy Domains. Macromolecules, 2018, 51, 4624-4632.	4.8	25
44	<i>In vivo</i>biocompatibility assessment of poly (ether imide) electrospun scaffolds. Journal of Tissue Engineering and Regenerative Medicine, 2017, 11, 1034-1044.	2.7	14
45	Surface geometry of poly(ether imide) boosts mouse pluripotent stem cell spontaneous cardiomyogenesis via modulating the embryoid body formation process. Clinical Hemorheology and Microcirculation, 2017, 64, 367-382.	1.7	2
46	Inflammatory responses of primary human dendritic cells towards polydimethylsiloxane and polytetrafluoroethylene. Clinical Hemorheology and Microcirculation, 2017, 64, 899-910.	1.7	12
47	Influence of nanoporous poly(ether imide) particle extracts on human aortic endothelial cells (HAECs). Clinical Hemorheology and Microcirculation, 2017, 64, 931-940.	1.7	2
48	Two-Level Shape Changes of Polymeric Microcuboids Prepared from Crystallizable Copolymer Networks. Macromolecules, 2017, 50, 2518-2527.	4.8	18
49	Strategy for the hemocompatibility testing of microparticles. Clinical Hemorheology and Microcirculation, 2017, 64, 345-353.	1.7	7
50	Morphological analysis of differently sized highly porous poly(ether imide) microparticles by mercury porosimetry. Polymers for Advanced Technologies, 2017, 28, 1269-1277.	3.2	3
51	Noncontinuously Responding Polymeric Actuators. ACS Applied Materials & Interfaces, 2017, 9, 33559-33564.	8.0	23
52	Transparent Substrates Prepared From Different Amorphous Polymers Can Directly Modulate Primary Human B cell functions. Biotechnology Journal, 2017, 12, 1700334.	3.5	0
53	Microwell Geometry Modulates Interleukin-6 Secretion in Human Mesenchymal Stem Cells. MRS Advances, 2017, 2, 2561-2570.	0.9	1
54	Langmuirâ€"Schaefer films of fibronectin as designed biointerfaces for culturing stem cells. Polymers for Advanced Technologies, 2017, 28, 1305-1311.	3.2	5

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55	Integrin Î²1 activation by micro-scale curvature promotes pro-angiogenic secretion of human mesenchymal stem cells. Journal of Materials Chemistry B, 2017, 5, 7415-7425.	5.8	13
56	The influence of thermal treatment on the morphology in differently prepared films of a oligodepsipeptide based multiblock copolymer. Polymers for Advanced Technologies, 2017, 28, 1339-1345.	3.2	7
57	Response of encapsulated cells to a gelatin matrix with varied bulk and microenvironmental elastic properties. Polymers for Advanced Technologies, 2017, 28, 1245-1251.	3.2	5
58	Influence of surface roughness on neural differentiation of human induced pluripotent stem cells. Clinical Hemorheology and Microcirculation, 2017, 64, 355-366.	1.7	16
59	Modulation of the mesenchymal stem cell migration capacity via preconditioning with topographic microstructure. Clinical Hemorheology and Microcirculation, 2017, 67, 267-278.	1.7	2
60	An ellipsometric approach towards the description of inhomogeneous polymer-based Langmuir layers. Beilstein Journal of Nanotechnology, 2016, 7, 1156-1165.	2.8	2
61	Water-Blown Polyurethane Foams Showing a Reversible Shape-Memory Effect. Polymers, 2016, 8, 412.	4.5	21
62	Influence of programming strain rates on the shapeâ€memory performance of semicrystalline multiblock copolymers. Journal of Polymer Science, Part B: Polymer Physics, 2016, 54, 1935-1943.	2.1	11
63	Influence of Compression Direction on the Shape-Memory Effect of Micro-Cylinder Arrays Prepared from Semi-Crystalline Polymer Networks. MRS Advances, 2016, 1, 1985-1993.	0.9	9
64	Adsorption capacity of poly(ether imide) microparticles to uremic toxins. Clinical Hemorheology and Microcirculation, 2016, 61, 657-665.	1.7	10
65	Effect of extracts of poly(ether imide) microparticles on cytotoxicity, ROS generation and proinflammatory effects on human monocytic (THP-1) cells. Clinical Hemorheology and Microcirculation, 2016, 61, 667-680.	1.7	9
66	Programming structural functions in phase-segregated polymers by implementing a defined thermomechanical history. Polymer, 2016, 102, 54-62.	3.8	2
67	Generating Aptamers Interacting with Polymeric Surfaces for Biofunctionalization. Macromolecular Bioscience, 2016, 16, 1776-1791.	4.1	15
68	Polymer architecture versus chemical structure as adjusting tools for the enzymatic degradation of oligo(Îµ-caprolactone) based films at the air-water interface. Polymer Degradation and Stability, 2016, 131, 114-121.	5.8	14
69	The relevance of hydrophobic segments in multiblock copolyesterurethanes for their enzymatic degradation at the air-water interface. Polymer, 2016, 102, 92-98.	3.8	7
70	Relation -between Nanostructural Changes and Macroscopic Effects during Reversible Temperature-Memory Effect under Stress-Free Conditions in Semicrystalline Polymer Networks. Materials Research Society Symposia Proceedings, 2015, 1718, 41-48.	0.1	4
71	Thermomechanical Characterization of a Series of Crosslinked Poly[ethylene-co-(vinyl acetate)] (PEVA) Copolymers. Materials Research Society Symposia Proceedings, 2015, 1718, 123-130.	0.1	2
72	The interaction of adipose-derived human mesenchymal stem cells and polyether ether ketone. Clinical Hemorheology and Microcirculation, 2015, 61, 301-321.	1.7	11

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73	Encasement of metallic cardiovascular stents with endothelial cellâ€selective copolyetheresterurethane microfibers. Polymers for Advanced Technologies, 2015, 26, 1209-1216.	3.2	2
74	Shapeâ€memory properties of degradable electrospun scaffolds based on hollow microfibers. Polymers for Advanced Technologies, 2015, 26, 1468-1475.	3.2	15
75	Surface pressureâ€induced isothermal 2Dâ€to 3Dâ€transitions in Langmuir films of poly(<i>Îµ</i>â€caprolactone)s and oligo(<i>Îµ</i>â€caprolactone) based polyesterurethanes. Polymers for Advanced Technologies, 2015, 26, 1411-1420.	3.2	8
76	Single and competitive protein adsorption on polymeric surfaces. Polymers for Advanced Technologies, 2015, 26, 1387-1393.	3.2	7
77	Integrated process for preparing porous, surface functionalized polyetherimide microparticles. Polymers for Advanced Technologies, 2015, 26, 1447-1455.	3.2	11
78	Influence of intermediate degradation products on the hydrolytic degradation of poly[(<i>rac</i>â€lactide)â€<i>co</i>â€glycolide] at the airâ€“water interface. Polymers for Advanced Technologies, 2015, 26, 1402-1410.	3.2	6
79	Shapeâ€Memory Capability of Copolyetheresterurethane Microparticles Prepared via Electrospraying. Macromolecular Materials and Engineering, 2015, 300, 522-530.	3.6	10
80	Influence of Diurethane Linkers on the Langmuir Layer Behavior of Oligo[(racâ€lactide)â€<i>co</i>â€glycolide]â€based Polyesterurethanes. Macromolecular Rapid Communications, 2015, 36, 1910-1915.	3.9	5
81	Reversible shapeâ€memory properties of surface functionalizable, crystallizable crosslinked terpolymers. Polymers for Advanced Technologies, 2015, 26, 1421-1427.	3.2	7
82	Cell-based detection of microbial biomaterial contaminations. Clinical Hemorheology and Microcirculation, 2015, 60, 51-63.	1.7	7
83	Modeling of stress relaxation of a semi-crystalline multiblock copolymer and its deformation behavior. Clinical Hemorheology and Microcirculation, 2015, 60, 109-120.	1.7	4
84	Polymeric inserts differing in their chemical composition as substrates for dendritic cell cultivation. Clinical Hemorheology and Microcirculation, 2015, 61, 347-357.	1.7	3
85	Influence of film thickness on the crystalline morphology of a copolyesterurethane comprising crystallizable poly(É›-caprolactone) soft segments. Clinical Hemorheology and Microcirculation, 2015, 60, 77-87.	1.7	2
86	Nanostructural changes in crystallizable controlling units determine the temperature-memory of polymers. Journal of Materials Chemistry A, 2015, 3, 8284-8293.	10.3	16
87	Characterization of bi-layered magnetic nanoparticles synthesized via two-step surface-initiated ring-opening polymerization. Pure and Applied Chemistry, 2015, 87, 1085-1097.	1.9	2
88	Influence of deformation temperature on structural variation and shape-memory effect of a thermoplastic semi-crystalline multiblock copolymer. EXPRESS Polymer Letters, 2015, 9, 624-635.	2.1	16
89	Modeling the heat transfer in magneto-sensitive shape-memory polymer nanocomposites with dynamically changing surface area to volume ratios. Polymer, 2015, 65, 215-222.	3.8	26
90	Impact of Molecular Architectures on the Thermal and Mechanical Properties of Multi-Phase Polymer Networks. Macromolecular Symposia, 2014, 346, 82-90.	0.7	0

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91	Tripleâ€Shape Effect with Adjustable Switching Temperatures in Crosslinked Poly[ethyleneâ€<i>co</i>â€(vinyl acetate)]. Macromolecular Chemistry and Physics, 2014, 215, 2446-2456.	2.2	24
92	Immunological evaluation of polystyrene and poly(ether imide) cell culture inserts with different roughness. Clinical Hemorheology and Microcirculation, 2014, 56, 285-286.	1.7	0
93	Atomistic Simulation of the Shapeâ€Memory Effect in Dry and Water Swollen Poly[(<i>rac</i>â€lactide)â€<i>co</i>â€glycolide] and Copolyester Urethanes Thereof. Macromolecular Chemistry and Physics, 2014, 215, 65-75.	2.2	13
94	Controlling Major Cellular Processes of Human Mesenchymal Stem Cells using Microwell Structures. Advanced Healthcare Materials, 2014, 3, 1991-2003.	7.6	41
95	Influence of expansion cooling regime on morphology of poly(<i>Îµ</i>â€caprolactone) foams prepared by pressure quenching using supercritical CO₂. Polymers for Advanced Technologies, 2014, 25, 1349-1355.	3.2	4
96	Universal relations in linear thermoelastic theories of thermally-responsive shape memory polymers. International Journal of Engineering Science, 2014, 82, 140-158.	5.0	6
97	Characterization of Langmuir Films Prepared from Copolyesterurethanes Based on Oligo(Ï‰â€pentadecalactone) and Oligo(Îµâ€caprolactone) Segments. Macromolecular Chemistry and Physics, 2014, 215, 2437-2445.	2.2	7
98	Effect of the Fixation Temperature <i>T</i>_{low} on the Crystallization Behavior and Shapeâ€Memory Performance of Crystallizable Copolyesterurethanes. Macromolecular Symposia, 2014, 345, 75-82.	0.7	1
99	Shapeâ€Memory Polymer Networks Prepared from Starâ€Shaped Poly[(<i>L</i>â€lactide)â€<i>co</i>â€glycolide] Precursors. Macromolecular Symposia, 2014, 345, 98-104.	0.7	4
100	Crystallization Behavior of Copolyesterurethanes Containing Different Weight Contents of Crystallizable Poly(<i>Îµ</i>â€caprolactone) Segments. Macromolecular Symposia, 2014, 345, 59-65.	0.7	1
101	Crystallization and Phase Segregation of Multifunctional Multiblock Copolymers in Spin Coated Thin Films Altered by Diurethane Junction Units. Macromolecular Symposia, 2014, 345, 83-90.	0.7	1
102	Preparation of Magnetoâ€Sensitive Polymer Nanocomposite Microparticles from Copolyesterurethanes via Electrospraying. Macromolecular Symposia, 2014, 345, 66-74.	0.7	3
103	Shape-memory properties of hydrogels having a poly(Îµ-caprolactone) crosslinker and switching segment in an aqueous environment. European Polymer Journal, 2013, 49, 2457-2466.	5.4	24
104	Multifunctional Hybrid Nanocomposites with Magnetically Controlled Reversible Shapeâ€"Memory Effect. Advanced Materials, 2013, 25, 5730-5733.	21.0	83
105	Thermally induced shapeâ€memory effects in polymers: Quantification and related modeling approaches. Journal of Polymer Science, Part B: Polymer Physics, 2013, 51, 621-637.	2.1	48
106	Temperature-memory polymer actuators. Proceedings of the National Academy of Sciences of the United States of America, 2013, 110, 12555-12559.	7.1	273
107	Influence of the addition of water to amorphous switching domains on the simulated shape-memory properties of poly(l-lactide). Polymer, 2013, 54, 4204-4211.	3.8	35
108	Reversible Bidirectional Shapeâ€Memory Polymers. Advanced Materials, 2013, 25, 4466-4469.	21.0	410

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109	Quantifying the Shape-Memory Effect of Polymers by Cyclic Thermomechanical Tests. Polymer Reviews, 2013, 53, 6-40.	10.9	76
110	Poreâ€•Size Distribution Controls Shapeâ€•Memory Properties on the Macroâ€•and Microscale of Polymeric Foams. Macromolecular Chemistry and Physics, 2013, 214, 1184-1188.	2.2	14
111	Simulating the Shapeâ€•Memory Behavior of Amorphous Switching Domains of Poly(<scp>L</scp>â€•lactide) by Molecular Dynamics. Macromolecular Chemistry and Physics, 2013, 214, 1273-1283.	2.2	26
112	Test system for evaluating the influence of polymer properties on primary human keratinocytes and fibroblasts in mono- and coculture. Journal of Biotechnology, 2013, 166, 58-64.	3.8	7
113	The influence of polystyrene and poly(ether imide) inserts with different roughness, on the activation of dendritic cells. Clinical Hemorheology and Microcirculation, 2013, 55, 157-168.	1.7	8
114	Cultivation and spontaneous differentiation of rat bone marrow-derived mesenchymal stem cells on polymeric surfaces. Clinical Hemorheology and Microcirculation, 2013, 55, 143-156.	1.7	9
115	Influence of fibre diameter and orientation of electrospun copolyetheresterurethanes on smooth muscle and endothelial cell behaviour. Clinical Hemorheology and Microcirculation, 2013, 55, 513-522.	1.7	16
116	Effect of polystyrene and polyether imide cell culture inserts with different roughness on chondrocyte metabolic activity and gene expression profiles of aggrecan and collagen. Clinical Hemorheology and Microcirculation, 2013, 55, 523-533.	1.7	6
117	Culture surface influence on T-cell phenotype and function. Clinical Hemorheology and Microcirculation, 2013, 55, 501-512.	1.7	3
118	Comparison of memory effects in multiblock copolymers and covalently crosslinked multiphase polymer networks composed of the same types of oligoester segments and urethane linker. Materials Research Society Symposia Proceedings, 2013, 1569, 123-128.	0.1	0
119	The influence of the co-monomer ratio of poly[acrylonitrile-co-(N-vinylpyrrolidone)]s on primary human monocyte-derived dendritic cells. Materials Research Society Symposia Proceedings, 2013, 1569, 21-26.	0.1	1
120	Tripleâ€•Shape Effect in Polymerâ€•Based Composites by Cleverly Matching Geometry of Active Component with Heating Method. Advanced Materials, 2013, 25, 5514-5518.	21.0	27
121	Influence of Coupling Agent on the Morphology of Multifunctional, Degradable Shape-Memory Polymers. Materials Research Society Symposia Proceedings, 2013, 1569, 57-64.	0.1	1
122	Bacterial attachment on poly[acrylonitrile-co-(2-methyl-2-propene-1-sulfonic acid)] surfaces. Materials Research Society Symposia Proceedings, 2013, 1569, 85-90.	0.1	1
123	Simulation of Volumetric Swelling of Degradable Poly[(Rac-Lactide)-Co-Glycolide] Based Polyesterurethanes Containing Different Urethane-Linkers. Journal of Applied Biomaterials and Functional Materials, 2012, 10, 293-301.	1.6	6
124	Influence of Different Heating Regimes on the Shape-Recovery Behavior of Poly(L-Lactide) in Simulated Thermomechanical Tests. Journal of Applied Biomaterials and Functional Materials, 2012, 10, 259-264.	1.6	8
125	Thermal Properties and Crystallinity of Grafted Copolymer Networks containing a Crystallizable Poly(Îµ-caprolactone) Crosslinker in an aqueous environment. Materials Research Society Symposia Proceedings, 2012, 1403, 7.	0.1	3
126	Shape-Memory Properties of Electrospun Non-wovens Prepared from Amorphous Polyetherurethanes Under Stress-free and Constant Strain Conditions. Materials Research Society Symposia Proceedings, 2012, 1403, 49.	0.1	7

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127	POLYMER SCAFFOLDS FOR REGENERATIVE THERAPIES â€” DESIGN OF HIERARCHICALLY ORGANIZED STRUCTURES AND THEIR MORPHOLOGICAL CHARACTERIZATION. Nano LIFE, 2012, 02, 1230005.	0.9	3
128	Shape-memory properties of magnetically active triple-shape nanocomposites based on a grafted polymer network with two crystallizable switching segments. EXPRESS Polymer Letters, 2012, 6, 26-40.	2.1	58
129	Influence of a Polyester Coating of Magnetic Nanoparticles on Magnetic Heating Behavior of Shape-Memory Polymer-Based Composites. Journal of Applied Biomaterials and Functional Materials, 2012, 10, 203-209.	1.6	4
130	Adherence and viability of primary human keratinocytes and primary human dermal fibroblasts on acrylonitrile-based copolymers with different concentrations of positively charged functional groups. Clinical Hemorheology and Microcirculation, 2012, 52, 391-401.	1.7	7
131	Smooth muscle and endothelial cell behaviour on degradable copolyetheresterurethane films. Clinical Hemorheology and Microcirculation, 2012, 52, 313-323.	1.7	6
132	Behaviour of fibroblasts on water born acrylonitrile-based copolymers containing different cationic and anionic moieties. Clinical Hemorheology and Microcirculation, 2012, 52, 295-311.	1.7	8
133	Immunological evaluation of polystyrene and poly(ether imide) cell culture inserts with different roughness. Clinical Hemorheology and Microcirculation, 2012, 52, 375-389.	1.7	15
134	Influence of fiber orientation in electrospun polymer scaffolds on viability, adhesion and differentiation of articular chondrocytes. Clinical Hemorheology and Microcirculation, 2012, 52, 325-336.	1.7	37
135	The influence of polymer scaffolds on cellular behaviour of bone marrow derived human mesenchymal stem cells. Clinical Hemorheology and Microcirculation, 2012, 52, 357-373.	1.7	21
136	Shape-memory properties of electrospun non-woven fabrics prepared from degradable polyesterurethanes containing poly(Ï‰-pentadecalactone) hard segments. European Polymer Journal, 2012, 48, 1866-1874.	5.4	51
137	Viability, proliferation and adhesion of smooth muscle cells and human umbilical vein endothelial cells on electrospun polymer scaffolds. Clinical Hemorheology and Microcirculation, 2012, 50, 101-112.	1.7	19
138	Pro-angiogenic CD14++ CD16+ CD163+ monocytes accelerate the in vitro endothelialization of soft hydrophobic poly(n-butyl acrylate) networks. Acta Biomaterialia, 2012, 8, 4253-4259.	8.3	28
139	Quantitative Evaluation of Adhesion of Osteosarcoma Cells to Hydrophobic Polymer Substrate with Tunable Elasticity. Journal of Physical Chemistry B, 2012, 116, 8024-8030.	2.6	18
140	Dicarboxy-telechelic cooligomers with sequence structure tunable light absorption. Reactive and Functional Polymers, 2012, 72, 533-541.	4.1	2
141	Interaction of Angiogenically Stimulated Intermediate CD163⁺ Monocytes/Macrophages With Soft Hydrophobic Poly(<i>n</i>â€Butyl Acrylate) Networks With Elastic Moduli Matched to That of Human Arteries. Artificial Organs, 2012, 36, E28-38.	1.9	8
142	Viability, Morphology and Function of Primary Endothelial Cells on Poly(n-Butyl Acrylate) Networks Having Elastic Moduli Comparable to Arteries. Journal of Biomaterials Science, Polymer Edition, 2012, 23, 901-915.	3.5	20
143	Degradation of and angiogenesis around multiblock copolymers containing poly(p-dioxanone)-and poly(Îµ-caprolactone)-segments subcutaneously implanted in the rat neck s. Clinical Hemorheology and Microcirculation, 2012, 50, 153-153.	1.7	0
144	The influence of poly(n-butyl acrylate) networks on viability and function of smooth muscle cells and vascular fibroblasts. Clinical Hemorheology and Microcirculation, 2012, 52, 283-294.	1.7	9

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145	Immuno-compatibility of soft hydrophobic poly (n-butyl acrylate) networks with elastic moduli for regeneration of functional tissues. Clinical Hemorheology and Microcirculation, 2012, 50, 131-142.	1.7	25
146	Shapeâ€Memory Properties of Polyetherurethane Foams Prepared by Thermally Induced Phase Separation. Advanced Engineering Materials, 2012, 14, 818-824.	3.5	28
147	Temperatureâ€Memory Effect of Copolyesterurethanes and their Application Potential in Minimally Invasive Medical Technologies. Advanced Functional Materials, 2012, 22, 3057-3065.	14.9	132
148	Current Status of Langmuir Monolayer Degradation of Polymeric Biomaterials. International Journal of Artificial Organs, 2011, 34, 123-128.	1.4	8
149	Viability, Adhesion and Differentiated Phenotype of Articular Chondrocytes on Degradable Polymers and Electro-Spun Structures Thereof. Macromolecular Symposia, 2011, 309-310, 28-39.	0.7	8
150	Hemocompatibility of soft hydrophobic poly(n-butyl acrylate) networks with elastic moduli adapted to the elasticity of human arteries. Clinical Hemorheology and Microcirculation, 2011, 49, 375-390.	1.7	18
151	Near-Infrared Dye-Loaded Plga Nanoparticles Prepared by Spray Drying for Photoacoustic Applications. International Journal of Artificial Organs, 2011, 34, 249-254.	1.4	12
152	Shape-Memory Properties and Degradation Behavior of Multifunctional Electro-Spun Scaffolds. International Journal of Artificial Organs, 2011, 34, 225-230.	1.4	42
153	Temperatureâ€Memory Polymer Networks with Crystallizable Controlling Units. Advanced Materials, 2011, 23, 4058-4062.	21.0	136
154	Preparation and biological evaluation of multifunctional PLGA-nanoparticles designed for photoacoustic imaging. Nanomedicine: Nanotechnology, Biology, and Medicine, 2011, 7, 228-237.	3.3	66
155	Mechanically active scaffolds from radioâ€opaque shapeâ€memory polymerâ€based composites. Polymers for Advanced Technologies, 2011, 22, 180-189.	3.2	62
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