Axel T Neffe

List of Publications by Year in descending order

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#	Article	IF	CITATIONS
1	In Vivo Performance of a Cell and Factor Free Multifunctional Fiber Mesh Modulating Postinfarct Myocardial Remodeling. Advanced Functional Materials, 2022, 32, .	7.8	3
2	Microparticles from glycidylmethacrylated gelatin as cell carriers prepared in an aqueous two-phase system. European Polymer Journal, 2021, 142, 110148.	2.6	5
3	Immunocompatibility and non-thrombogenicity of gelatin-based hydrogels. Clinical Hemorheology and Microcirculation, 2021, 77, 335-350.	0.9	13
4	Response of Endothelial Cells to Gelatin-Based Hydrogels. ACS Biomaterials Science and Engineering, 2021, 7, 527-540.	2.6	26
5	Formulation of drug-loaded oligodepsipeptide particles with submicron size. Clinical Hemorheology and Microcirculation, 2021, 77, 201-219.	0.9	0
6	Thermally-Induced Shape-Memory Behavior of Degradable Gelatin-Based Networks. International Journal of Molecular Sciences, 2021, 22, 5892.	1.8	10
7	Soft, Formstable (Co)Polyester Blend Elastomers. Nanomaterials, 2021, 11, 1472.	1.9	3
8	Functionalizable coaxial PLLA/PDLA nanofibers with stereocomplexes at the internal interface. Journal of Materials Research, 2021, 36, 2995-3009.	1.2	3
9	Establishment of an in vitro thrombogenicity test system with cyclic olefin copolymer substrate for endothelial layer formation. MRS Communications, 2021, 11, 1-9.	0.8	2
10	Hydrogel networks by aliphatic dithiol Michael addition to glycidylmethacrylated gelatin. MRS Advances, 2021, 6, 796-800.	0.5	2
11	Polyester urethane functionalizable through maleimide side-chains and cross-linkable by polylactide stereocomplexes. European Polymer Journal, 2020, 137, 109916.	2.6	6
12	Alkynyl-functionalized chain-extended PCL for coupling to biological molecules. European Polymer Journal, 2020, 136, 109908.	2.6	4
13	Supramolecular Gelatin Networks Based on Inclusion Complexes. Macromolecular Bioscience, 2020, 20, e2000221.	2.1	6
14	Salt-Induced Shape-Memory Effect in Gelatin-Based Hydrogels. Biomacromolecules, 2020, 21, 2024-2031.	2.6	18
15	Perfluorophenyl azide functionalization of electrospun poly(para â€dioxanone). Polymers for Advanced Technologies, 2019, 30, 1165-1172.	1.6	1
16	Characterization of Tissue Transglutaminase as a Potential Biomarker for Tissue Response toward Biomaterials. ACS Biomaterials Science and Engineering, 2019, 5, 5979-5989.	2.6	5
17	Amides as Non-polymerizable Catalytic Adjuncts Enable the Ring-Opening Polymerization of Lactide With Ferrous Acetate Under Mild Conditions. Frontiers in Chemistry, 2019, 7, 346.	1.8	3
18	Oligodepsipeptide (nano)carriers: Computational design and analysis of enhanced drug loading. Journal of Controlled Release, 2019, 301, 146-156.	4.8	20

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19	Thiol Michael-Type Reactions of Optically Active Mercapto-Acids in Aqueous Medium. MRS Advances, 2019, 4, 2515-2525.	0.5	2
20	Interplay between stiffness and degradation of architectured gelatin hydrogels leads to differential modulation of chondrogenesis in vitro and in vivo. Acta Biomaterialia, 2018, 69, 83-94.	4.1	52
21	Sequential alkyne-azide cycloadditions for functionalized gelatin hydrogel formation. European Polymer Journal, 2018, 100, 77-85.	2.6	16
22	Angiogenic potential of endothelial and tumor cells seeded on gelatin–based hydrogels in response to electrical stimulations. Clinical Hemorheology and Microcirculation, 2017, 64, 941-949.	0.9	11
23	Monolayer formation and shear- resistance of human vein endothelial cells onÂgelatin-based hydrogels with tailorable elasticity and degradability. Clinical Hemorheology and Microcirculation, 2017, 64, 699-710.	0.9	4
24	Polydepsipeptide Block-Stabilized Polyplexes for Efficient Transfection of Primary Human Cells. Biomacromolecules, 2017, 18, 3819-3833.	2.6	15
25	Adipogenic differentiation of human adipose derived mesenchymal stem cells in 3D architectured gelatin based hydrogels (ArcGel). Clinical Hemorheology and Microcirculation, 2017, 67, 297-307.	0.9	10
26	Enzymatic action as switch of bulk to surface degradation of clicked gelatinâ€based networks. Polymers for Advanced Technologies, 2017, 28, 1318-1324.	1.6	10
27	Engineering of cell-laden gelatin-based microgels for cell delivery and immobilization in regenerative therapies. Clinical Hemorheology and Microcirculation, 2017, 67, 251-259.	0.9	6
28	Bone regeneration induced by a 3D architectured hydrogel in a rat critical-size calvarial defect. Biomaterials, 2017, 113, 158-169.	5.7	58
29	Poly[acrylonitrile-co-(N-vinyl pyrrolidone)] nanoparticles – Composition-dependent skin penetration enhancement of a dye probe and biocompatibility. European Journal of Pharmaceutics and Biopharmaceutics, 2017, 116, 66-75.	2.0	11
30	Influence of surfactants on depsipeptide submicron particle formation. European Journal of Pharmaceutics and Biopharmaceutics, 2017, 116, 61-65.	2.0	5
31	Response of encapsulated cells to a gelatin matrix with varied bulk and microenvironmental elastic properties. Polymers for Advanced Technologies, 2017, 28, 1245-1251.	1.6	5
32	RGD constructs with physical anchor groups as polymer co-electrospinnable cell adhesives. Polymers for Advanced Technologies, 2017, 28, 1312-1317.	1.6	3
33	Gelatin-based Hydrogel Degradation and Tissue Interaction <i>in vivo</i> : Insights from Multimodal Preclinical Imaging in Immunocompetent Nude Mice. Theranostics, 2016, 6, 2114-2128.	4.6	96
34	Mechanical Properties of Architectured Gelatin-Based Hydrogels on Different Hierarchical Levels. MRS Advances, 2016, 1, 1995-2001.	0.5	1
35	Advanced Functional Polymers for Medicine. Macromolecular Bioscience, 2016, 16, 1743-1744.	2.1	4
36	Influence of metal softness on the metal-organic catalyzed polymerization of morpholin-2,5-diones to oligodepsipeptides. European Polymer Journal, 2016, 85, 139-149.	2.6	16

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37	Supramolecular hydrogel networks formed by molecular recognition of collagen and a peptide grafted to hyaluronic acid. Acta Biomaterialia, 2016, 38, 1-10.	4.1	17
38	Nanocarriers for drug delivery into and through the skin — Do existing technologies match clinical challenges?. Journal of Controlled Release, 2016, 242, 3-15.	4.8	116
39	Secondary Structure of Decorin-Derived Peptides in Solution. MRS Advances, 2016, 1, 1965-1970.	0.5	0
40	Classifying Calpain Inhibitors for the Treatment of Cataracts: A Self Organising Map (SOM) ANN/KM Approach in Drug Discovery. Studies in Computational Intelligence, 2016, , 161-212.	0.7	0
41	Immuno-compatibility of desaminotyrosine and desaminotyrosyl tyrosine functionalized star-shaped oligo(ethylene glycol)s with different molecular weights. Materials Research Society Symposia Proceedings, 2015, 1718, 97-102.	0.1	1
42	Influence of glycidylmethacrylate functional groups attached to gelatin on the formation and properties of hydrogels. Materials Research Society Symposia Proceedings, 2015, 1718, 103-108.	0.1	3
43	Anisotropic Composites of Desaminotyrosine and Desaminotyrosyl Tyrosine Functionalized Gelatin and Bioactive Glass Microparticles. Materials Research Society Symposia Proceedings, 2015, 1718, 9-14.	0.1	0
44	Hydrogels: One Step Creation of Multifunctional 3D Architectured Hydrogels Inducing Bone Regeneration (Adv. Mater. 10/2015). Advanced Materials, 2015, 27, 1800-1800.	11.1	1
45	Design of Decorinâ€Based Peptides That Bind to Collagenâ€I and their Potential as Adhesion Moieties in Biomaterials. Angewandte Chemie - International Edition, 2015, 54, 10980-10984.	7.2	24
46	Conditional Ultrasound Sensitivity of Poly[(<i>N</i> â€isopropylacrylamide)â€ <i>co</i> â€(vinyl imidazole)] Microgels for Controlled Lipase Release. Macromolecular Rapid Communications, 2015, 36, 1891-1896.	2.0	5
47	Synthesis and characterization of star-shaped oligo(ethylene glycol) with tyrosine derived moieties under variation of their molecular weight. Clinical Hemorheology and Microcirculation, 2015, 60, 13-23.	0.9	5
48	Advanced Functional Polymers in Medicine (AFPM). Clinical Hemorheology and Microcirculation, 2015, 60, 1-2.	0.9	1
49	Going Beyond Compromises in Multifunctionality of Biomaterials. Advanced Healthcare Materials, 2015, 4, 642-645.	3.9	7
50	One Step Creation of Multifunctional 3D Architectured Hydrogels Inducing Bone Regeneration. Advanced Materials, 2015, 27, 1738-1744.	11.1	100
51	Effect of diisocyanate linkers on the degradation characteristics of copolyester urethanes as potential drug carrier matrices. European Journal of Pharmaceutics and Biopharmaceutics, 2015, 95, 18-26.	2.0	14
52	Advanced Functional Polymers for Medicine. Advanced Healthcare Materials, 2014, 3, 1939-1940.	3.9	8
53	Crosslinking of gelatin by ring opening metathesis under aqueous conditions—an exploratory study. Polymers for Advanced Technologies, 2014, 25, 1371-1375.	1.6	3
54	Multivalent grafting of hyperbranched oligo- and polyglycerols shielding rough membranes to mediate hemocompatibility. Journal of Materials Chemistry B, 2014, 2, 3626-3635.	2.9	26

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55	Biocompatibility and inflammatory response inÂvitro and inÂvivo to gelatin-based biomaterials with tailorable elastic properties. Biomaterials, 2014, 35, 9755-9766.	5.7	89
56	Protein Interactions with Polymer Coatings and Biomaterials. Angewandte Chemie - International Edition, 2014, 53, 8004-8031.	7.2	614
57	Interaction of Human Plasma Proteins with Thin Gelatin-Based Hydrogel Films: A QCM-D and ToF-SIMS Study. Biomacromolecules, 2014, 15, 2398-2406.	2.6	29
58	A High Content Screening Assay for Evaluation of Biomaterialâ€Mediated Cell Fusion Processes. Macromolecular Symposia, 2014, 346, 91-99.	0.4	2
59	Micellization of Aminoterminated Poly(ethylene glycol)â€≺i>blockâ€poly(propylene) Tj ETQq1 1 0.784314 rg Symposia, 2014, 345, 91-97.	BT /Overlc 0.4	ock 10 Tf 50 1
60	Tailoring of Mechanical Properties of Diisocyanate Crosslinked Gelatin-Based Hydrogels. Materials Research Society Symposia Proceedings, 2013, 1569, 3-8.	0.1	4
61	Efficient synthesis of pure monotosylated beta-cyclodextrin and its dimers. Carbohydrate Research, 2013, 381, 59-63.	1.1	56
62	Poly(ethylene glycol) Grafting to Poly(ether imide) Membranes: Influence on Protein Adsorption and Thrombocyte Adhesion. Macromolecular Bioscience, 2013, 13, 1720-1729.	2.1	31
63	Recent Trends in the Chemistry of Shapeâ€Memory Polymers. Macromolecular Chemistry and Physics, 2013, 214, 527-536.	1.1	92
64	Polyalkylcyanoacrylates as in situ formed diffusion barriers in multimaterial drug carriers. Journal of Controlled Release, 2013, 169, 321-328.	4.8	9
65	A multifunctional bilayered microstent as glaucoma drainage device. Journal of Controlled Release, 2013, 172, 1002-1010.	4.8	7
66	Progress in biopolymer-based biomaterials and their application in controlled drug delivery. Expert Review of Medical Devices, 2013, 10, 813-833.	1.4	41
67	Immunological investigations of oligoethylene glycols functionalized with desaminotyrosine and desaminotyrosyltyrosine. Materials Research Society Symposia Proceedings, 2013, 1569, 9-14.	0.1	4
68	Influence of physically crosslinked gelatins on the vasculature in the avian chorioallantoic membrane. Clinical Hemorheology and Microcirculation, 2013, 55, 133-142.	0.9	4
69	Influence of diisocyanate reactivity and water solubility on the formation and the mechanical properties of gelatin-based networks in water. Materials Research Society Symposia Proceedings, 2013, 1569, 15-20.	0.1	3
70	Influence of Drying Procedures on Network Formation and Properties of Hydrogels from Functionalized Gelatin. Macromolecular Symposia, 2013, 334, 24-32.	0.4	5
71	Advanced Functional Polymers for Medicine. Macromolecular Bioscience, 2013, 13, 1639-1639.	2.1	0
72	Dynamic in vitro hemocompatibility testing of poly(ether imide) membranes functionalized with linear, methylated oligoglycerol and oligo(ethylene glycol). Clinical Hemorheology and Microcirculation, 2013, 54, 235-248.	0.9	11

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73	A multifunctional bilayered microstent as glaucoma drainage device. Journal of Controlled Release, 2013, 172, 1002-10.	4.8	2
74	Thermal Gelation and Stability of Pectin Grafted with PEPE. Materials Research Society Symposia Proceedings, 2012, 1403, 226.	0.1	0
75	Synthesis and Characterization of Oligo(Ethylene Glycol)s Functionalized with Desaminotyrosine or Desaminotyrosyltyrosine. Journal of Applied Biomaterials and Functional Materials, 2012, 10, 170-176.	0.7	3
76	Characterization of Oligo(Ethylene Glycol) and Oligoglycerol Functionalized Poly(Ether Imide) by Angle-Dependent X-Ray Photoelectron Spectroscopy. Journal of Applied Biomaterials and Functional Materials, 2012, 10, 215-222.	0.7	3
77	Physically crosslinked gelatins functionalized with tyrosine moieties do not induce angiogenesis or thrombus formation in the developing vasculature in the avian chorioallantoic membrane. Clinical Hemorheology and Microcirculation, 2012, 50, 55-63.	0.9	6
78	Quantifying Protein Adsorption to Physically Crosslinked Gelatin-Based Networks. Materials Research Society Symposia Proceedings, 2012, 1403, 196.	0.1	0
79	Using Mass Spectrometry to Investigate the Structural Features of Photocrosslinked Co-Networks based on Gelatin and Poly(ethylene glycol) Methacrylates. Materials Research Society Symposia Proceedings, 2012, 1403, 13.	0.1	0
80	Photocrosslinked Coâ€Networks from Glycidylmethacrylated Gelatin and Poly(ethylene glycol) Methacrylates. Macromolecular Bioscience, 2012, 12, 484-493.	2.1	37
81	Surface Functionalization of Poly(ether imide) Membranes with Linear, Methylated Oligoglycerols for Reducing Thrombogenicity. Macromolecular Rapid Communications, 2012, 33, 1487-1492.	2.0	39
82	Viability of Human Mesenchymal Stem Cells Seeded on Crosslinked Entropyâ€Elastic Gelatinâ€Based Hydrogels. Macromolecular Bioscience, 2012, 12, 312-321.	2.1	44
83	Influence of Tyrosine-Derived Moieties and Drying Conditions on the Formation of Helices in Gelatin. Biomacromolecules, 2011, 12, 75-81.	2.6	48
84	Reducing the Endotoxin Burden of Desaminotyrosine―and Desaminotyrosyl Tyrosineâ€Functionalized Gelatin. Macromolecular Symposia, 2011, 309-310, 182-189.	0.4	16
85	Why Are So Few Degradable Polymeric Biomaterials Currently Established in Clinical Applications?. International Journal of Artificial Organs, 2011, 34, 71-75.	0.7	21
86	Understanding Instability and Rupture of Poly(Alkyl-2-Cyanoacrylate) Capsules. International Journal of Artificial Organs, 2011, 34, 243-248.	0.7	7
87	A Molecular Dynamic Analysis of Gelatin as an Amorphous Material: Prediction of Mechanical Properties of Gelatin Systems. International Journal of Artificial Organs, 2011, 34, 139-151.	0.7	12
88	Hyaluronic Acid-Based Hydrogels Crosslinked by Copper-Catalyzed Azide-Alkyne Cycloaddition with Tailorable Mechanical Properties. International Journal of Artificial Organs, 2011, 34, 192-197.	0.7	32
89	Polymers and drugs suitable for the development of a drug delivery drainage system in glaucoma surgery. Journal of Biomedical Materials Research - Part B Applied Biomaterials, 2011, 97B, 388-395.	1.6	26
90	Gelatin functionalization with tyrosine derived moieties to increase the interaction with hydroxyapatite fillers. Acta Biomaterialia, 2011, 7, 1693-1701.	4.1	60

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91	Synthesis and Characterization of Gelatin Fragments Obtained by Controlled Degradation. Macromolecular Symposia, 2011, 309-310, 199-204.	0.4	1
92	A Blend of Poly(εâ€caprolactone) and Poly[(εâ€caprolactone)â€ <i>co</i> â€glycolide] with Remarkable Mechanical Features and Wide Applicability as Biomaterial. Macromolecular Symposia, 2011, 309-310, 59-67.	0.4	4
93	Synthesis and Characterization of Polyetherimides with 3-Methoxy-1,2-propanediol Moieties. Macromolecular Symposia, 2011, 309-310, 40-48.	0.4	1
94	Synthesis and Characterization of a Telechelic Peptide as a Precursor for Supramolecular Networks. Macromolecular Symposia, 2011, 309-310, 205-212.	0.4	0
95	In Vitro and In Vivo Evaluation of a Multifunctional Hyaluronic acid Based Hydrogel System for Local Application on the Retina. Macromolecular Symposia, 2011, 309-310, 229-235.	0.4	5
96	Comparing techniques for drug loading of shape-memory polymer networks – effect on their functionalities. European Journal of Pharmaceutical Sciences, 2010, 41, 136-147.	1.9	39
97	Controlled Change of Mechanical Properties during Hydrolytic Degradation of Polyester Urethane Networks. Macromolecular Chemistry and Physics, 2010, 211, 182-194.	1.1	52
98	Knowledgeâ€Based Tailoring of Gelatinâ€Based Materials by Functionalization with Tyrosineâ€Đerived Groups. Macromolecular Rapid Communications, 2010, 31, 1534-1539.	2.0	39
99	ABâ€polymer Networks with Cooligoester and Poly(<i>n</i> â€butyl acrylate) Segments as a Multifunctional Matrix for Controlled Drug Release. Macromolecular Bioscience, 2010, 10, 1063-1072.	2.1	33
100	An entropy–elastic gelatin-based hydrogel system. Journal of Materials Chemistry, 2010, 20, 8875.	6.7	94
101	Thermomechanical Properties and Shape-Memory Capability of Drug Loaded Semi-Crystalline Polyestermethacrylate Networks. Materials Research Society Symposia Proceedings, 2009, 1190, 113.	0.1	6
102	Amorphous Polymer Networks Combining Three Functionalities–Shape-memory, Biodegradability, and Drug Release. Materials Research Society Symposia Proceedings, 2009, 1190, 184.	0.1	4
103	Evaluation of a degradable shape-memory polymer network as matrix for controlled drug release. Journal of Controlled Release, 2009, 138, 243-250.	4.8	215
104	Polymer Networks Combining Controlled Drug Release, Biodegradation, and Shape Memory Capability. Advanced Materials, 2009, 21, 3394-3398.	11.1	163
105	Unprecedented, Low Cytotoxicity of Spongelike Calcium Phosphate/Poly(ethylene imine) Hydrogel Composites. Macromolecular Bioscience, 2009, 9, 179-186.	2.1	35
106	Molecular Modeling, Synthesis, and Biological Evaluation of Macrocyclic Calpain Inhibitors. Angewandte Chemie - International Edition, 2009, 48, 1455-1458.	7.2	64
107	Controlled Drug Release from Biodegradable Shape-Memory Polymers. Advances in Polymer Science, 2009, , 177-205.	0.4	44
108	Synthesis, biological evaluation and molecular modelling of N-heterocyclic dipeptide aldehydes as selective calpain inhibitors. Bioorganic and Medicinal Chemistry, 2008, 16, 6911-6923.	1.4	20

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109	Investigation into the P3Binding Domain of m-Calpain Using Photoswitchable Diazo- and Triazene-dipeptide Aldehydes:Â New Anticataract Agents. Journal of Medicinal Chemistry, 2007, 50, 2916-2920.	2.9	42
110	Rational Optimization of the Binding Affinity of CD4 Targeting Peptidomimetics with Potential Anti HIV Activity. Journal of Medicinal Chemistry, 2007, 50, 3482-3488.	2.9	27
111	Synthesis and optimization of peptidomimetics as HIV entry inhibitors against the receptor protein CD4 using STD NMR and ligand docking. Organic and Biomolecular Chemistry, 2006, 4, 3259.	1.5	17
112	Synthesis and evaluation of eight-membered cyclic pseudo-dipeptides. Peptides, 2005, 26, 251-258.	1.2	7
113	Developments in the design and synthesis of calpain inhibitors. Current Opinion in Drug Discovery & Development, 2005, 8, 684-700.	1.9	9
114	A Peptidomimetic HIV-Entry Inhibitor Directed against the CD4 Binding Site of the Viral Glycoprotein gp120. Angewandte Chemie - International Edition, 2004, 43, 2937-2940.	7.2	19
115	Ethylene oxide sterilization of electrospun poly(l-lactide)/poly(d-lactide) core/shell nanofibers. MRS Advances, 0, , 1.	0.5	Ο