

Helmut Keul

List of Publications by Year in descending order

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papers

1,129
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361413

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docs citations

71
times ranked

1446
citing authors

#	ARTICLE	IF	CITATIONS
1	Thiolactone-Functional Pullulan for <i>In Situ</i> Forming Biogels. <i>Biomacromolecules</i> , 2021, 22, 4262-4273.	5.4	5
2	Formaldehyde-free curing of cotton cellulose fabrics in anhydrous media. <i>Journal of Applied Polymer Science</i> , 2020, 137, 48371.	2.6	1
3	Light-induced cross-linking and post-cross-linking modification of polyglycidol. <i>Chemical Communications</i> , 2018, 54, 1647-1650.	4.1	10
4	Highly Swellable Hydrogels from Waterborne Poly(Vinylamine-co-Acetamide). <i>Macromolecular Chemistry and Physics</i> , 2018, 219, 1800399.	2.2	9
5	Synthesis, Characterization, and Antimicrobial Properties of Peptides Mimicking Copolymers of Maleic Anhydride and 4-Methyl-1-pentene. <i>International Journal of Molecular Sciences</i> , 2018, 19, 2617.	4.1	11
6	Novel Antibacterial Polyglycidols: Relationship between Structure and Properties. <i>Polymers</i> , 2018, 10, 96.	4.5	7
7	Solubility, Emulsification and Surface Properties of Maleic Anhydride, Perfluorooctyl and Alkyl Meth-Acrylate Terpolymers. <i>Polymers</i> , 2018, 10, 37.	4.5	3
8	Comparison of <i>Candida antarctica</i> Lipase B Variants for Conversion of ϵ -Caprolactone in Aqueous Medium—Part 2. <i>Polymers</i> , 2018, 10, 524.	4.5	10
9	Aliphatic Polyethers with Sulfate, Carboxylate, and Hydroxyl Side Groups—Do They Show Anticoagulant Properties?. <i>Macromolecular Bioscience</i> , 2017, 17, .	4.1	2
10	Protecting patches in colloidal synthesis of Au semishells. <i>Chemical Communications</i> , 2017, 53, 3898-3901.	4.1	5
11	One-Pot Synthesis of Amino Acid-Based Polyelectrolytes and Nanoparticle Synthesis. <i>Biomacromolecules</i> , 2017, 18, 159-168.	5.4	10
12	Homoserine Lactone as a Structural Key Element for the Synthesis of Multifunctional Polymers. <i>Polymers</i> , 2017, 9, 130.	4.5	11
13	Synthesis of Terpolymers with Homogeneous Composition by Free Radical Copolymerization of Maleic Anhydride, Perfluorooctyl and Butyl or Dodecyl Methacrylates: Application of the Continuous Flow Monomer Addition Technique. <i>Polymers</i> , 2017, 9, 610.	4.5	5
14	CaLB Catalyzed Conversion of ϵ -Caprolactone in Aqueous Medium. Part 1: Immobilization of CaLB to Microgels. <i>Polymers</i> , 2016, 8, 372.	4.5	20
15	Telechelic Poly(methyl acrylate)s as Constituents for Multiblock Poly(urethane urea)s. <i>Macromolecular Chemistry and Physics</i> , 2016, 217, 72-84.	2.2	1
16	Functional PEG building blocks via copolymerization of ethylene carbonate and tert-butyl glycidyl ether. <i>Polymer Chemistry</i> , 2016, 7, 5050-5059.	3.9	4
17	Switching from Controlled Ring-Opening Polymerization (cROP) to Controlled Ring-Closing Depolymerization (cRCDP) by Adjusting the Reaction Parameters That Determine the Ceiling Temperature. <i>Biomacromolecules</i> , 2016, 17, 3995-4002.	5.4	62
18	Light-Controlled Radical Polymerization of Functional Methacrylates Prepared by Enzymatic Transacylation. <i>Macromolecular Chemistry and Physics</i> , 2016, 217, 9-23.	2.2	3

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19	An epoxy thiolactone on stage: four component reactions, synthesis of poly(thioether urethane)s and the respective hydrogels. <i>Polymer Chemistry</i> , 2016, 7, 2291-2298.	3.9	23
20	MALDI-TOF Analysis of Halogen Telechelic Poly(methyl methacrylate)s and Poly(methyl acrylate)s Prepared by Atom Transfer Radical Polymerization (ATRP) or Single Electron Transfer-Living Radical Polymerization (SET-LRP). <i>Macromolecular Chemistry and Physics</i> , 2015, 216, 1791-1800.	2.2	15
21	Macromolecular Design via an Organocatalytic, Monomer-Specific and Temperature-Dependent On/Off Switch: High Precision Synthesis of Polyester/Polycarbonate Multiblock Copolymers. <i>Macromolecules</i> , 2015, 48, 1703-1710.	4.8	47
22	One-Pot Synthesis of Multifunctional Polymers by Light-Controlled Radical Polymerization and Enzymatic Catalysis with <i>Candida antarctica</i> Lipase B. <i>Macromolecular Rapid Communications</i> , 2015, 36, 2092-2096.	3.9	12
23	Straightforward synthesis of phosphate functionalized linear polyglycidol. <i>European Polymer Journal</i> , 2015, 69, 319-327.	5.4	5
24	Synthesis and characterization of polyamine-based cyclophosphazene hybrid microspheres. <i>Journal of Polymer Science Part A</i> , 2014, 52, 527-536.	2.3	41
25	Tailored Thiol-Functional Polyamides: Synthesis and Functionalization. <i>Macromolecular Rapid Communications</i> , 2014, 35, 1986-1993.	3.9	22
26	Synthesis of \pm -isocyanate telechelic polymethacrylate soft segments with activated ester side functionalities and their use for polyurethane synthesis. <i>Polymer International</i> , 2014, 63, 114-126.	3.1	7
27	Synthesis of Azetidinium-Functionalized Polymers Using a Piperazine Based Coupler. <i>Macromolecules</i> , 2013, 46, 638-646.	4.8	19
28	Preparation of waterborne functional polymers using a bifunctional coupler. <i>Green Chemistry</i> , 2013, 15, 3135.	9.0	14
29	Poly(amide urethane)s with functional/reactive side groups based on a bis-cyclic bio-based monomer/coupling agent. <i>European Polymer Journal</i> , 2013, 49, 853-864.	5.4	23
30	Formation of linear and cyclic polyoxetanes in the cationic ring-opening polymerization of 3-allyloxymethyl-3-ethyloxetane and subsequent postpolymerization modification of poly(3-allyloxymethyl-3-ethyloxetane). <i>Journal of Polymer Science Part A</i> , 2013, 51, 1243-1254.	2.3	20
31	Phosphonoethylated Polyglycidols: A Platform for Tunable Enzymatic Grafting Density. <i>Macromolecules</i> , 2013, 46, 3708-3718.	4.8	6
32	Surfactant-Free Synthesis of Polystyrene Nanoparticles Using Oligoglycidol Macromonomers. <i>Macromolecules</i> , 2012, 45, 1230-1240.	4.8	25
33	Copolymers of 2-hydroxyethylacrylate and 2-methoxyethyl acrylate by nitroxide mediated polymerization: kinetics, SEC-ESI-MS analysis and thermoresponsive properties. <i>Polymer Chemistry</i> , 2012, 3, 335-342.	3.9	37
34	Hydroxyl-functional polyurethanes and polyesters: synthesis, properties and potential biomedical application. <i>Polymer International</i> , 2012, 61, 1048-1060.	3.1	57
35	Synthesis of \pm -isocyanate-Telechelic Poly(methyl methacrylate). <i>Macromolecular Chemistry and Physics</i> , 2012, 213, 1465-1474.	2.2	8
36	Functional Polymers Bearing Reactive Azetidinium Groups: Synthesis and Characterization. <i>Macromolecular Chemistry and Physics</i> , 2012, 213, 500-512.	2.2	21

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37	Post-polymerization functionalization of linear polyglycidol with diethyl vinylphosphonate. <i>Chemical Communications</i> , 2011, 47, 8148.	4.1	25
38	Synthesis and Characterization of Polyhydroxyurethanes Prepared from Difunctional Six-Membered Ring Carbonates. <i>Designed Monomers and Polymers</i> , 2011, 14, 593-608.	1.6	7
39	Synthesis of reversible and irreversible cross-linked (M)PEG-(meth)acrylate based functional copolymers. <i>Polymer Chemistry</i> , 2011, 2, 1803.	3.9	8
40	Synthesis and characterization of biodegradable polyester/polyether resins via Michael-type addition. <i>Polymer Chemistry</i> , 2011, 2, 2273.	3.9	11
41	Tailor-made polyesters based on pentadecalactone via enzymatic catalysis. <i>Green Chemistry</i> , 2011, 13, 889.	9.0	25
42	Poly(glycidyl amine) and Copolymers with Glycidol and Glycidyl Amine Repeating Units: Synthesis and Characterization. <i>Macromolecules</i> , 2011, 44, 4082-4091.	4.8	46
43	Synthesis of Reactive Amphiphilic Copolymers Based on Oligoglycidol Macromonomers. <i>Macromolecular Chemistry and Physics</i> , 2011, 212, 1791-1801.	2.2	12
44	Synthesis and Characterisation of Poly[oligo(μ -caprolactone)- <i>malate</i> -graft-poly(ϵ -lactide)]. <i>Macromolecular Chemistry and Physics</i> , 2010, 211, 752-760.	2.2	9
45	Synthesis, Characterization, and Selectivity of Bifunctional Couplers. <i>Macromolecular Chemistry and Physics</i> , 2010, 211, 2366-2381.	2.2	26
46	Free radical and nitroxide mediated polymerization of hydroxy-functional acrylates prepared via lipase-catalyzed transacylation reactions. <i>Journal of Polymer Science Part A</i> , 2010, 48, 2610-2621.	2.3	17
47	Multifunctional Polyesters for Bioartificial Vascular Prostheses. <i>Macromolecular Symposia</i> , 2010, 296, 453-456.	0.7	0
48	Hydroxy Functional Acrylates: Enzymatic Synthesis and Free Radical Polymerization. <i>Macromolecular Symposia</i> , 2010, 296, 49-52.	0.7	1
49	Thermoresponsive polyacrylates obtained via a cascade of enzymatic transacylation and FRP or NMP. <i>Polymer Chemistry</i> , 2010, 1, 878.	3.9	24
50	Synthesis, characterization and in vitro degradation of 3D-microstructured poly(μ -caprolactone) resins. <i>Polymer Chemistry</i> , 2010, 1, 1215.	3.9	22
51	Graft Copolymers Based on Functional Polyesters. <i>Macromolecular Symposia</i> , 2010, 296, 366-370.	0.7	4
52	Star Shaped Polyglycidols End Capped with Vinyl sulfonate Groups and Conjugation Reaction with Dodecylamine. <i>Macromolecular Symposia</i> , 2010, 296, 1-4.	0.7	4
53	Highly Functional Poly(meth)acrylates via Cascade Reaction. <i>Macromolecular Chemistry and Physics</i> , 2009, 210, 123-139.	2.2	6
54	Carbonate Couplers and Functional Cyclic Carbonates from Amino Acids and Glucosamine. <i>Macromolecular Chemistry and Physics</i> , 2009, 210, 242-255.	2.2	22

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55	Synthesis and Characterization of Amphiphilic Polyethers Based on Tetrahydrofuran and Glycidol: Antibacterial Assessment. <i>Macromolecular Chemistry and Physics</i> , 2009, 210, 614-630.	2.2	9
56	Novel Biodegradable Heterografted Polymer Brushes Prepared <i>via</i> a Chemoenzymatic Approach. <i>Macromolecular Chemistry and Physics</i> , 2009, 210, 736-746.	2.2	16
57	Synthesis of Chitosan Surfactants. <i>Macromolecular Chemistry and Physics</i> , 2009, 210, 752-768.	2.2	6
58	Synthesis of high-molecular-weight linear methacrylate copolymers with spiropyran side groups: Conformational changes of single molecules in solution and on surfaces. <i>Journal of Polymer Science Part A</i> , 2009, 47, 1274-1283.	2.3	18
59	Synthesis and degradation of biomedical materials based on linear and star shaped polyglycidols. <i>Journal of Polymer Science Part A</i> , 2009, 47, 3209-3231.	2.3	84
60	Synthesis, Characterization, and Visualization of High-Molecular-Weight Poly(glycidol-graft- μ -caprolactone) Starlike Polymers. <i>Macromolecules</i> , 2009, 42, 1031-1036.	4.8	13
61	2D- and 3D-microstructured biodegradable polyester resins. <i>Journal of Polymer Science Part A</i> , 2008, 46, 6789-6800.	2.3	22
62	Synthesis and Association Behaviour of Linear Block Copolymers with Different Microstructures but the Same Composition. <i>Macromolecular Chemistry and Physics</i> , 2008, 209, 1859-1871.	2.2	25
63	Multifunctional Polymethacrylates Obtained Via ATRP of Functional and Reactive Monomers Followed by Polymer Analogous Reaction with Functional Amines. <i>Macromolecular Chemistry and Physics</i> , 2008, 209, 2012-2025.	2.2	9
64	ϵ -Caprolactones: Synthesis, Ring-Opening Polymerization vs. Rearrangement by Means of Chemical and Enzymatic Catalysis. <i>Macromolecular Symposia</i> , 2008, 272, 28-38.	0.7	15
65	Synthesis and polymerization of first-generation dendritic methacrylate macromonomers. <i>Journal of Polymer Science Part A</i> , 2007, 45, 614-628.	2.3	6
66	Ring-opening polymerization and depolymerization in respective polymers. <i>Macromolecular Symposia</i> , 1995, 98, 825-834.	0.7	2
67	Ring-Opening Polymerization and ring-closing depolymerization. <i>Advanced Materials</i> , 1994, 6, 21-36.	21.0	53