Helmut Keul

List of Publications by Year
in descending order

67 papers	1,129 citations	361413 20 h-index	454955 30 g-index
71 all docs	71 docs citations	71 times ranked	1446 citing authors

#	Article	IF	Citations
1	Synthesis and degradation of biomedical materials based on linear and star shaped polyglycidols. Journal of Polymer Science Part A, 2009, 47, 3209-3231.	2.3	84
2	Switching from Controlled Ring-Opening Polymerization (cROP) to Controlled Ring-Closing Depolymerization (cRCDP) by Adjusting the Reaction Parameters That Determine the Ceiling Temperature. Biomacromolecules, 2016, 17, 3995-4002.	5.4	62
3	Hydroxylâ€functional polyurethanes and polyesters: synthesis, properties and potential biomedical application. Polymer International, 2012, 61, 1048-1060.	3.1	57
4	Ring-Opening Polymerization and ring-closing depolymerization. Advanced Materials, 1994, 6, 21-36.	21.0	53
5	Macromolecular Design via an Organocatalytic, Monomer-Specific and Temperature-Dependent â€œOn/Off Switchâ€• High Precision Synthesis of Polyester/Polycarbonate Multiblock Copolymers. Macromolecules, 2015, 48, 1703-1710.	4.8	47
6	Poly(glycidyl amine) and Copolymers with Glycidol and Glycidyl Amine Repeating Units: Synthesis and Characterization. Macromolecules, 2011, 44, 4082-4091.	4.8	46
7	Synthesis and characterization of polyamine-based cyclophosphazene hybrid microspheres. Journal of Polymer Science Part A, 2014, 52, 527-536.	2.3	41
8	Copolymers of 2-hydroxyethylacrylate and 2-methoxyethyl acrylate by nitroxide mediated polymerization: kinetics, SEC-ESI-MS analysis and thermoresponsive properties. Polymer Chemistry, 2012, 3, 335-342.	3.9	37
9	Synthesis, Characterization, and Selectivity of Bifunctional Couplers. Macromolecular Chemistry and Physics, 2010, 211, 2366-2381.	2.2	26
10	Synthesis and Association Behaviour of Linear Block Copolymers with Different Microstructures but the Same Composition. Macromolecular Chemistry and Physics, 2008, 209, 1859-1871.	2.2	25
11	Post-polymerization functionalization of linear polyglycidol with diethyl vinylphosphonate. Chemical Communications, 2011, 47, 8148.	4.1	25
12	Tailor-made polyesters based on pentadecalactone via enzymatic catalysis. Green Chemistry, 2011, 13, 889.	9.0	25
13	Surfactant-Free Synthesis of Polystyrene Nanoparticles Using Oligoglycidol Macromonomers. Macromolecules, 2012, 45, 1230-1240.	4.8	25
14	Thermoresponsive polyacrylates obtained via a cascade of enzymatic transacylation and FRP or NMP. Polymer Chemistry, 2010, 1, 878.	3.9	24
15	Poly(amide urethane)s with functional/reactive side groups based on a bis-cyclic bio-based monomer/coupling agent. European Polymer Journal, 2013, 49, 853-864.	5.4	23
16	An epoxy thiolactone on stage: four component reactions, synthesis of poly(thioether urethane)s and the respective hydrogels. Polymer Chemistry, 2016, 7, 2291-2298.	3.9	23
17	2Dâ€and 3Dâ€microstructured biodegradable polyester resins. Journal of Polymer Science Part A, 2008, 46, 6789-6800.	2.3	22
18	Carbonate Couplers and Functional Cyclic Carbonates from Amino Acids and Glucosamine. Macromolecular Chemistry and Physics, 2009, 210, 242-255.	2.2	22

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19	Synthesis, characterization and in vitro degradation of 3D-microstructured poly(Îµ-caprolactone) resins. Polymer Chemistry, 2010, 1, 1215.	3.9	22
20	Tailored Thiolâ€Functional Polyamides: Synthesis and Functionalization. Macromolecular Rapid Communications, 2014, 35, 1986-1993.	3.9	22
21	Functional Polymers Bearing Reactive Azetidinium Groups: Synthesis and Characterization. Macromolecular Chemistry and Physics, 2012, 213, 500-512.	2.2	21
22	Formation of linear and cyclic polyoxetanes in the cationic ringâ€opening polymerization of 3â€allyloxymethylâ€3â€ethyloxetane and subsequent postpolymerization modification of poly(3â€allyloxymethylâ€3â€ethyloxetane). Journal of Polymer Science Part A, 2013, 51, 1243-1254.	2.3	20
23	CaLB Catalyzed Conversion of Îµ-Caprolactone in Aqueous Medium. Part 1: Immobilization of CaLB to Microgels. Polymers, 2016, 8, 372.	4.5	20
24	Synthesis of Azetidinium-Functionalized Polymers Using a Piperazine Based Coupler. Macromolecules, 2013, 46, 638-646.	4.8	19
25	Synthesis of highâ€molecularâ€weight linear methacrylate copolymers with spiropyran side groups: Conformational changes of single molecules in solution and on surfaces. Journal of Polymer Science Part A, 2009, 47, 1274-1283.	2.3	18
26	Free radical and nitroxide mediated polymerization of hydroxyâ€“functional acrylates prepared via lipaseâ€“catalyzed transacylation reactions. Journal of Polymer Science Part A, 2010, 48, 2610-2621.	2.3	17
27	Novel Biodegradable Heterografted Polymer Brushes Prepared via a Chemoenzymatic Approach. Macromolecular Chemistry and Physics, 2009, 210, 736-746.	2.2	16
28	Î³â€Acyloxyâ€Îµâ€Caprolactones: Synthesis, Ringâ€Opening Polymerization vs. Rearrangement by Means of Chemical and Enzymatic Catalysis. Macromolecular Symposia, 2008, 272, 28-38.	0.7	15
29	MALDIâ€TOF Analysis of Halogen Telechelic Poly(methyl methacrylate)s and Poly(methyl acrylate)s Prepared by Atom Transfer Radical Polymerization (ATRP) or Single Electron Transferâ€Living Radical Polymerization (SETâ€LRP). Macromolecular Chemistry and Physics, 2015, 216, 1791-1800.	2.2	15
30	Preparation of waterborne functional polymers using a bifunctional coupler. Green Chemistry, 2013, 15, 3135.	9.0	14
31	Synthesis, Characterization, and Visualization of High-Molecular-Weight Poly(glycidol-graft-Îµ-caprolactone) Starlike Polymers. Macromolecules, 2009, 42, 1031-1036.	4.8	13
32	Synthesis of Reactive Amphiphilic Copolymers Based on Oligoglycidol Macromonomers. Macromolecular Chemistry and Physics, 2011, 212, 1791-1801.	2.2	12
33	Oneâ€Pot Synthesis of Multifunctional Polymers by Lightâ€Controlled Radical Polymerization and Enzymatic Catalysis with Candida antarctica Lipase B. Macromolecular Rapid Communications, 2015, 36, 2092-2096.	3.9	12
34	Synthesis and characterization of biodegradable polyester/polyether resins via Michael-type addition. Polymer Chemistry, 2011, 2, 2273.	3.9	11
35	Homoserine Lactone as a Structural Key Element for the Synthesis of Multifunctional Polymers. Polymers, 2017, 9, 130.	4.5	11
36	Synthesis, Characterization, and Antimicrobial Properties of Peptides Mimicking Copolymers of Maleic Anhydride and 4-Methyl-1-pentene. International Journal of Molecular Sciences, 2018, 19, 2617.	4.1	11

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37	One-Pot Synthesis of Amino Acid-Based Polyelectrolytes and Nanoparticle Synthesis. Biomacromolecules, 2017, 18, 159-168.	5.4	10
38	Light-induced cross-linking and post-cross-linking modification of polyglycidol. Chemical Communications, 2018, 54, 1647-1650.	4.1	10
39	Comparison of Candida antarctica Lipase B Variants for Conversion of Îµ-Caprolactone in Aqueous Mediumâ€"Part 2. Polymers, 2018, 10, 524.	4.5	10
40	Multifunctional Polymethacrylates Obtained Via ATRP of Functional and Reactive Monomers Followed by Polymer Analogous Reaction with Functional Amines. Macromolecular Chemistry and Physics, 2008, 209, 2012-2025.	2.2	9
41	Synthesis and Characterization of Amphiphilic Polyethers Based on Tetrahydrofuran and Glycidol: Antibacterial Assessment. Macromolecular Chemistry and Physics, 2009, 210, 614-630.	2.2	9
42	Synthesis and Characterisation of Poly[oligo(Îµâ€caprolactone)<scp>L</scp>â€malateâ€graftâ€poly(<scp>L</scp>â€lactide)]. Macromolecular Chemistry and Physics, 2010, 211, 752-760.	2.2	9
43	Highly Swellable Hydrogels from Waterborne Poly(Vinylamineâ€coâ€Acetamide). Macromolecular Chemistry and Physics, 2018, 219, 1800399.	2.2	9
44	Synthesis of reversible and irreversible cross-linked (M)PEG-(meth)acrylate based functional copolymers. Polymer Chemistry, 2011, 2, 1803.	3.9	8
45	Synthesis of Îˆ,Ï‰â€isocyanateâ€“Telechelic Poly(methyl methacrylate). Macromolecular Chemistry and Physics, 2012, 213, 1465-1474.	2.2	8
46	Synthesis and Characterization of Polyhydroxyurethanes Prepared from Difunctional Six-Membered Ring Carbonates. Designed Monomers and Polymers, 2011, 14, 593-608.	1.6	7
47	Synthesis of Îˆ,Ï‰-isocyanate telechelic polymethacrylate soft segments with activated ester side functionalities and their use for polyurethane synthesis. Polymer International, 2014, 63, 114-126.	3.1	7
48	Novel Antibacterial Polyglycidols: Relationship between Structure and Properties. Polymers, 2018, 10, 96.	4.5	7
49	Synthesis and polymerization of first-generation dendritic methacrylate macromonomers. Journal of Polymer Science Part A, 2007, 45, 614-628.	2.3	6
50	Highly Functional Poly(meth)acrylates via Cascade Reaction. Macromolecular Chemistry and Physics, 2009, 210, 123-139.	2.2	6
51	Synthesis of Chitosan Surfactants. Macromolecular Chemistry and Physics, 2009, 210, 752-768.	2.2	6
52	Phosphonoethylated Polyglycidols: A Platform for Tunable Enzymatic Grafting Density. Macromolecules, 2013, 46, 3708-3718.	4.8	6
53	Straightforward synthesis of phosphate functionalized linear polyglycidol. European Polymer Journal, 2015, 69, 319-327.	5.4	5
54	Protecting patches in colloidal synthesis of Au semishells. Chemical Communications, 2017, 53, 3898-3901.	4.1	5

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55	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. Polymers, 2017, 9, 610.	4.5	5
56	Thiolactone-Functional Pullulan for In Situ Forming Biogels. Biomacromolecules, 2021, 22, 4262-4273.	5.4	5
57	Graft Copolymers Based on Functional Polyesters. Macromolecular Symposia, 2010, 296, 366-370.	0.7	4
58	Star Shaped Polyglycidols End Capped with Vinyl sulfonate Groups and Conjugation Reaction with Dodecylamine. Macromolecular Symposia, 2010, 296, 1-4.	0.7	4
59	Functional PEG building blocks via copolymerization of ethylene carbonate and tert-butyl glycidyl ether. Polymer Chemistry, 2016, 7, 5050-5059.	3.9	4
60	Light-Controlled Radical Polymerization of Functional Methacrylates Prepared by Enzymatic Transacylation. Macromolecular Chemistry and Physics, 2016, 217, 9-23.	2.2	3
61	Solubility, Emulsification and Surface Properties of Maleic Anhydride, Perfluorooctyl and Alkyl Meth-Acrylate Terpolymers. Polymers, 2018, 10, 37.	4.5	3
62	Ringâ€opening polymerization and depolymerization in respective polymers. Macromolecular Symposia, 1995, 98, 825-834.	0.7	2
63	Aliphatic Polyethers with Sulfate, Carboxylate, and Hydroxyl Side Groupsâ€”Do They Show Anticoagulant Properties?. Macromolecular Bioscience, 2017, 17, .	4.1	2
64	Hydroxy Functional Acrylates: Enzymatic Synthesis and Free Radical Polymerization. Macromolecular Symposia, 2010, 296, 49-52.	0.7	1
65	Telechelic Poly(methyl acrylate)s as Constituents for Multiblock Poly(urethane urea)s. Macromolecular Chemistry and Physics, 2016, 217, 72-84.	2.2	1
66	Formaldehydeâ€free curing of cotton cellulose fabrics in anhydrous media. Journal of Applied Polymer Science, 2020, 137, 48371.	2.6	1
67	Multifunctional Polyesters for Bioartificial Vascular Prostheses. Macromolecular Symposia, 2010, 296, 453-456.	0.7	0