Holger Frey

List of Publications by Year in descending order

401 papers	20,641 citations	13099 68 h-index	16183 124 g-index
428 all docs	428 docs citations	428 times ranked	13332 citing authors

#	Article	IF	Citations
1	Dendrimers:. Journal of Controlled Release, 2000, 65, 133-148.	9.9	1,151
2	Controlled Synthesis of Hyperbranched Polyglycerols by Ring-Opening Multibranching Polymerization. Macromolecules, 1999, 32, 4240-4246.	4.8	994
3	Degree of branching in hyperbranched polymers. Acta Polymerica, 1997, 48, 30-35.	0.9	709
4	Dendritic Polymers in Biomedical Applications: From Potential to Clinical Use in Diagnostics and Therapy. Angewandte Chemie - International Edition, 2002, 41, 1329-1334.	13.8	627
5	Polymerization of Ethylene Oxide, Propylene Oxide, and Other Alkylene Oxides: Synthesis, Novel Polymer Architectures, and Bioconjugation. Chemical Reviews, 2016, 116, 2170-2243.	47.7	594
6	Hyperbranched Polyglycerols: From the Controlled Synthesis of Biocompatible Polyether Polyols to Multipurpose Applications. Accounts of Chemical Research, 2010, 43, 129-141.	15.6	521
7	Dendritic polyglycerol: a new versatile biocompatible material. Reviews in Molecular Biotechnology, 2002, 90, 257-267.	2.8	313
8	Hyperbranched Molecular Nanocapsules:Â Comparison of the Hyperbranched Architecture with the Perfect Linear Analogue. Journal of the American Chemical Society, 2002, 124, 9698-9699.	13.7	293
9	Controlling the Growth of Polymer Trees: Concepts and Perspectives For Hyperbranched Polymers. Chemistry - A European Journal, 2000, 6, 2499-2506.	3.3	277
10	Hyperbranched Polymers Prepared via the Core-Dilution/Slow Addition Technique:â€‰ Computer Simulation of Molecular Weight Distribution and Degree of Branching. Macromolecules, 1998, 31, 3790-3801.	4.8	260
11	Water-Soluble Fluorescent Ag Nanoclusters Obtained from Multiarm Star Poly(acrylic acid) as â€œMolecular Hydrogelâ€•Templates. Advanced Materials, 2007, 19, 349-352.	21.0	251
12	Linearâ€“dendritic block copolymers: The state of the art and exciting perspectives. Progress in Polymer Science, 2011, 36, 1-52.	24.7	250
13	Molecular Nanocapsules Based on Amphiphilic Hyperbranched Polyglycerols. Angewandte Chemie - International Edition, 1999, 38, 3552-3555.	13.8	242
14	Ethene and Propene Copolymers Containing Silsesquioxane Side Groups. Macromolecules, 1997, 30, 2818-2824.	4.8	231
15	Beyond Poly(ethylene glycol): Linear Polyglycerol as a Multifunctional Polyether for Biomedical and Pharmaceutical Applications. Biomacromolecules, 2014, 15, 1935-1954.	5.4	202
16	Towards the Generation of Selfâ€‘Healing Materials by Means of a Reversible Photoâ€‐induced Approach. Macromolecular Rapid Communications, 2011, 32, 468-473.	3.9	198
17	A mesogen-functionized carbosilane dendrimer: A dendritic liquid crystalline polymer. Advanced Materials, 1996, 8, 414-416.	21.0	193
18	Microflow Technology in Polymer Synthesis. Macromolecules, 2012, 45, 9551-9570.	4.8	173

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19	Multifunctional Poly(ethylene glycol)s. Angewandte Chemie - International Edition, 2011, 50, 7988-7997.	13.8	168
20	Functional Poly(ethylene oxide) Multiarm Star Polymers:Â Core-First Synthesis Using Hyperbranched Polyglycerol Initiators. Macromolecules, 2000, 33, 315-320.	4.8	159
21	Degree of branching in hyperbranched polymers. 3 Copolymerization of ABm-monomers with AB and ABn-monomers. Acta Polymerica, 1999, 50, 67-76.	0.9	156
22	Heteroatom-Based Dendrimers. Advanced Materials, 1998, 10, 279-293.	21.0	155
23	Gold Nanoparticles Coated with a Thermosensitive Hyperbranched Polyelectrolyte: Towards Smart Temperature and pH Nanosensors. Angewandte Chemie - International Edition, 2008, 47, 2227-2230.	13.8	155
24	Relationship between the Structure of Amphiphilic Copolymers and Their Ability To Disturb Lipid Bilayersâ€. Biochemistry, 2005, 44, 4042-4054.	2.5	148
25	Carbosilane Dendrimers with Perfluoroalkyl End Groups. Coreâ^'Shell Macromolecules with Generation-Dependent Order. Macromolecules, 1997, 30, 6860-6868.	4.8	142
26	Functional Polycarbonates from Carbon Dioxide and Tailored Epoxide Monomers: Degradable Materials and Their Application Potential. Advanced Functional Materials, 2018, 28, 1704302.	14.9	141
27	An Approach to Coreâ^'Shell-Type Architectures in Hyperbranched Polyglycerols by Selective Chemical Differentiation. Macromolecules, 2000, 33, 8158-8166.	4.8	139
28	From Random Coil to Extended Nanocylinder: Dendrimer Fragments Shape Polymer Chains. Angewandte Chemie - International Edition, 1998, 37, 2193-2197.	13.8	133
29	Carbosilane-Based Dendritic Polyols. Macromolecules, 1995, 28, 6657-6661.	4.8	117
30	Role of cyclization in the synthesis of hyperbranched aliphatic polyesters. Macromolecular Chemistry and Physics, 2000, 201, 782-791.	2.2	116
31	Hyperbranched Polyetherâ^'Polyols Based on Polyglycerol:Â Polarity Design by Block Copolymerization with Propylene Oxide. Macromolecules, 2000, 33, 309-314.	4.8	115
32	Hyperbranched Polyglycerols with Elevated Molecular Weights: A Facile Two-Step Synthesis Protocol Based on Polyglycerol Macroinitiators. Macromolecules, 2009, 42, 3230-3236.	4.8	114
33	Poly(lactide)-block-Poly(HEMA) Block Copolymers: An Orthogonal One-Pot Combination of ROP and ATRP, Using a Bifunctional Initiator. Macromolecules, 2009, 42, 5622-5628.	4.8	113
34	Microstructured Reactors for Polymer Synthesis: A Renaissance of Continuous Flow Processes for Tailorâ€Made Macromolecules?. Macromolecular Chemistry and Physics, 2008, 209, 343-356.	2.2	111
35	Thermal Properties of the Homologous Series of 8-fold Alkyl-Substituted Octasilsesquioxanes. Chemistry of Materials, 1997, 9, 1475-1479.	6.7	109
36	Double-Hydrophilic Linear-Hyperbranched Block Copolymers Based on Poly(ethylene oxide) and Poly(glycerol). Macromolecules, 2008, 41, 1184-1188.	4.8	109

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37	Synthesis and Noncovalent Protein Conjugation of Linear-Hyperbranched PEG-Poly(glycerol) Î±,Ï‰_n-Telechelics. Journal of the American Chemical Society, 2009, 131, 7954-7955.	13.7	107
38	Fullerene-End-Capped Polystyrenes. Monosubstituted Polymeric C60 Derivatives. Macromolecules, 1995, 28, 403-405.	4.8	103
39	Preparation of Catalytically Active Palladium Nanoclusters in Compartments of Amphiphilic Hyperbranched Polyglycerols. Macromolecules, 2000, 33, 3958-3960.	4.8	102
40	Encapsulation of Hydrophilic Pincerâ^'Platinum(II) Complexes in Amphiphilic Hyperbranched Polyglycerol Nanocapsules. Macromolecules, 2002, 35, 5734-5737.	4.8	97
41	Role of Topology and Amphiphilicity for Guest Encapsulation in Functionalized Hyperbranched Poly(ethylenimine)s. Macromolecules, 2005, 38, 227-229.	4.8	97
42	Poly(ethylene glycol-co-allyl glycidyl ether)s: A PEG-Based Modular Synthetic Platform for Multiple Bioconjugation. Bioconjugate Chemistry, 2011, 22, 436-444.	3.6	97
43	Oxidation-Responsive and â€œClickableâ€•Poly(ethylene glycol) via Copolymerization of 2-(Methylthio)ethyl Glycidyl Ether. Journal of the American Chemical Society, 2016, 138, 9212-9223.	13.7	96
44	Linear-dendritic nonionic poly(propylene oxide)â€“polyglycerol surfactants. Tetrahedron, 2003, 59, 4017-4024.	1.9	94
45	Carboxylated and Sulfonated Poly(arylene-co-arylene sulfone)s:Â Thermostable Polyelectrolytes for Fuel Cell Applications. Macromolecules, 2002, 35, 7936-7941.	4.8	93
46	Hyperbranched Polylactide Copolymers. Macromolecules, 2006, 39, 1719-1723.	4.8	89
47	Poly(1,2-glycerol carbonate): A Fundamental Polymer Structure Synthesized from CO₂ and Glycidyl Ethers. Macromolecules, 2013, 46, 3280-3287.	4.8	86
48	Copolymers of Glycidol and Glycidyl Ethers:Â Design of Branched Polyether Polyols by Combination of Latent Cyclic AB2and ABR Monomers. Macromolecules, 2000, 33, 7682-7692.	4.8	85
49	Mono- and Multilayers of Mesogen-Substituted Carbosilane Dendrimers on Mica. Macromolecules, 1996, 29, 8069-8076.	4.8	83
50	Functional PEG-based polymers with reactive groups via anionic ROP of tailor-made epoxides. Polymer Chemistry, 2012, 3, 1714.	3.9	83
51	Macromolecular-Multisite Catalysts Obtained by Grafting Diaminoaryl Palladium(ii) Complexes onto a Hyperbranched-Polytriallylsilane Support. Angewandte Chemie - International Edition, 2000, 39, 3445-3447.	13.8	82
52	Amino Functional Poly(ethylene glycol) Copolymers via Protected Amino Glycidol. Macromolecules, 2010, 43, 2244-2251.	4.8	82
53	Enzyme-Catalyzed Synthesis of Hyperbranched Aliphatic Polyesters. Macromolecular Rapid Communications, 2002, 23, 292-296.	3.9	81
54	Reactive core/shell type hyperbranched blockcopolyethers as new liquid rubbers for epoxy toughening. Polymer, 2004, 45, 2155-2164.	3.8	79

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55	Hyperbranched Polyglycerol-Based Lipids via Oxyanionic Polymerization: Toward Multifunctional Stealth Liposomes. Biomacromolecules, 2010, 11, 568-574.	5.4	78
56	PEG-based Multifunctional Polyethers with Highly Reactive Vinyl-Ether Side Chains for Click-Type Functionalization. Macromolecules, 2011, 44, 6326-6334.	4.8	78
57	Silicon-Based Dendrimers. Topics in Current Chemistry, 2000, , 69-129.	4.0	77
58	Hyperbranched polycarbosilane macromonomers bearing oxazoline functionalities. Macromolecular Rapid Communications, 1997, 18, 253-260.	3.9	75
59	Chiral Hyperbranched Dendron Analogues. Macromolecules, 2000, 33, 253-254.	4.8	75
60	Silsesquioxane-Based Amphiphiles. Langmuir, 1999, 15, 4752-4756.	3.5	74
61	Grafting of hyperbranched polymers: From unusual complex polymer topologies to multivalent surface functionalization. Polymer, 2013, 54, 5443-5455.	3.8	74
62	Intrinsic superoxide dismutase activity of MnO nanoparticles enhances the magnetic resonance imaging contrast. Journal of Materials Chemistry B, 2016, 4, 7423-7428.	5.8	74
63	Correlations between Ion Conductivity and Polymer Dynamics in Hyperbranched Poly(ethylene oxide) Electrolytes for Lithium-Ion Batteries. Chemistry of Materials, 2011, 23, 2685-2688.	6.7	72
64	Squaric Acid Mediated Synthesis and Biological Activity of a Library of Linear and Hyperbranched Poly(Glycerol)â€“Protein Conjugates. Biomacromolecules, 2012, 13, 1161-1171.	5.4	71
65	Ferrocenyl Glycidyl Ether: A Versatile Ferrocene Monomer for Copolymerization with Ethylene Oxide to Water-Soluble, Thermoresponsive Copolymers. Macromolecules, 2013, 46, 647-655.	4.8	71
66	Enhancing the Degree of Branching of Hyperbranched Polymers by Postsynthetic Modification. Macromolecules, 1998, 31, 2381-2383.	4.8	70
67	Multiâ€Arm Star Poly(<scp>L</scp>â€lactide) with Hyperbranched Polyglycerol Core. Macromolecular Chemistry and Physics, 2007, 208, 1657-1665.	2.2	70
68	Synthesis of poly(glycerol)-block-poly(methyl acrylate) multi-arm star polymers. Macromolecular Rapid Communications, 2000, 21, 226-230.	3.9	69
69	The Next 100 Years of Polymer Science. Macromolecular Chemistry and Physics, 2020, 221, 2000216.	2.2	69
70	Hyperbranched Polymers:Â Structure of Hyperbranched Polyglycerol and Amphiphilic Poly(glycerol) Tj ETQq0 0 0 rgBT /Overlock 10 Tf 50	4.8	67
71	Synthesis and Characterization of Poly(glyceryl glycerol) Block Copolymers. Macromolecules, 2008, 41, 1909-1911.	4.8	65
72	Synthesis and Thermal Behavior of Esterified Aliphatic Hyperbranched Polyether Polyols. Macromolecules, 2000, 33, 1330-1337.	4.8	64

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73	Synthesis of Hyperbranched Aromatic Homo- and Copolyesters via the Slow Monomer Addition Method. Macromolecules, 2001, 34, 7692-7698.	4.8	64
74	Hockey-Puck Micelles from Oligo(p-benzamide)-b-PEG Rodâ€“Coil Block Copolymers. Angewandte Chemie - International Edition, 2006, 45, 2969-2975.	13.8	64
75	Chiral Poly(dipentylsilylene) Copolymers. Macromolecules, 1994, 27, 1814-1818.	4.8	63
76	Electroactive Linearâ€“Hyperbranched Block Copolymers Based on Linear Poly(ferrocenylsilane)s and Hyperbranched Poly(carbosilane)s. Chemistry - A European Journal, 2009, 15, 9068-9077.	3.3	63
77	One-Step Block Copolymer Synthesis versus Sequential Monomer Addition: A Fundamental Study Reveals That One Methyl Group Makes a Difference. Macromolecules, 2018, 51, 3527-3537.	4.8	63
78	Hyperbranched Polyether Polyols with Liquid Crystalline Properties. Angewandte Chemie - International Edition, 1999, 38, 2928-2930.	13.8	62
79	Optically Active Hyperbranched Polyglycerol as Scaffold for Covalent and Noncovalent Immobilization of Platinum(II) NCN-Pincer Complexes. Catalytic Application and Recovery. Organometallics, 2004, 23, 1525-1532.	2.3	62
80	Linear-Hyperbranched Amphiphilic AB Diblock Copolymers Based on Polystyrene and Hyperbranched Polyglycerol. Macromolecular Rapid Communications, 2005, 26, 862-867.	3.9	62
81	Multi-Arm Star Polyglycerol-block-poly(tert-butyl acrylate) and the Respective Multi-Arm Poly(acrylic) Tj ETQq1 1 0.784314 rgBT /Over	2.2	62
82	Segmental Dynamics in Dendrimers with Perfluorinated End Groups:Â A Study Using Quasielastic Neutron Scattering. Macromolecules, 1998, 31, 5415-5423.	4.8	61
83	Multi-arm star block copolymers based on É›-caprolactone with hyperbranched polyglycerol core. Macromolecular Chemistry and Physics, 2000, 201, 792-797.	2.2	60
84	Isoprene/Styrene Tapered Multiblock Copolymers with up to Ten Blocks: Synthesis, Phase Behavior, Order, and Mechanical Properties. Macromolecules, 2018, 51, 10246-10258.	4.8	60
85	Carbanions on Tap â€“ Living Anionic Polymerization in a Microstructured Reactor. Macromolecular Chemistry and Physics, 2008, 209, 1106-1114.	2.2	59
86	Recent advances in the use of nanoparticles for allergenâ€specific immunotherapy. Allergy: European Journal of Allergy and Clinical Immunology, 2017, 72, 1461-1474.	5.7	58
87	Pd@Fe₂O₃ Superparticles with Enhanced Peroxidase Activity by Solution Phase Epitaxial Growth. Chemistry of Materials, 2017, 29, 1134-1146.	6.7	58
88	Hyperbranched aliphatic polyether polyols. Journal of Polymer Science Part A, 2013, 51, 995-1019.	2.3	57
89	â€œFunctional Poly(ethylene glycol)â€: PEG-Based Random Copolymers with 1,2-Diol Side Chains and Terminal Amino Functionality. Macromolecules, 2010, 43, 8511-8518.	4.8	56
90	Branched Acid-Degradable, Biocompatible Polyether Copolymers via Anionic Ring-Opening Polymerization Using an Epoxide Inimer. ACS Macro Letters, 2012, 1, 1094-1097.	4.8	56

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91	Functionalization of Liposomes with Hydrophilic Polymers Results in Macrophage Uptake Independent of the Protein Corona. Biomacromolecules, 2019, 20, 2989-2999.	5.4	56
92	Synthesis of reactive hyperbranched and star-like polyethers and their use for toughening of vinylesterâ€“urethane hybrid resins. Polymer, 2004, 45, 1185-1195.	3.8	55
93	Linear-Hyperbranched Block Copolymers Consisting of Polystyrene and Dendritic Poly(carbosilane) Block. Macromolecules, 2006, 39, 971-977.	4.8	54
94	Synthesis of Hyperbranched Polyglycerol in a Continuous Flow Microreactor. Chemical Engineering and Technology, 2007, 30, 1519-1524.	1.5	54
95	Heteroâ€Multifunctional Poly(ethylene glycol) Copolymers with Multiple Hydroxyl Groups and a Single Terminal Functionality. Macromolecular Rapid Communications, 2010, 31, 258-264.	3.9	54
96	Synthesis of Multiarm Star Poly(glycerol)-block-Poly(2-hydroxyethyl methacrylate). Biomacromolecules, 2006, 7, 919-926.	5.4	53
97	Hyperbranched PEG by Random Copolymerization of Ethylene Oxide and Glycidol. Macromolecular Rapid Communications, 2010, 31, 1811-1815.	3.9	53
98	Hyperbranched Poly(propylene oxide): A Multifunctional Backbone-Thermoresponsive Polyether Polyol Copolymer. ACS Macro Letters, 2012, 1, 888-891.	4.8	53
99	Inimer-Promoted Synthesis of Branched and Hyperbranched Polylactide Copolymers. Macromolecules, 2009, 42, 9443-9456.	4.8	52
100	Anionic Polymerization of Terpene Monomers: New Options for Bio-Based Thermoplastic Elastomers. Macromolecules, 2021, 54, 7323-7336.	4.8	52
101	Living Polymer Chains with Predictable Molecular Weight and Dispersity via Carbanionic Polymerization in Continuous Flow: Mixing Rate as a Key Parameter. Macromolecules, 2016, 49, 5043-5050.	4.8	51
102	Rational design of tapered multiblock copolymers for thermoplastic elastomers. Progress in Polymer Science, 2022, 124, 101488.	24.7	51
103	Synthesis and Supramolecular Association of Immobilized NCN-Pincer Platinum(II) Complexes on Hyperbranched Polyglycerol Supports. Chemistry - A European Journal, 2004, 10, 1267-1273.	3.3	50
104	Synergistic assembly of hyperbranched polyethylenimine and fatty acids leading to unusual supramolecular nanocapsules. Chemical Communications, 2005, , 755-757.	4.1	50
105	Celebrating 100 years of â€œpolymer scienceâ€: Hermann Staudinger's 1920 manifesto. Polymer Chemistry, 2020, 11, 8-14.	3.9	50
106	Poly(isoglycerol methacrylate)-b-poly(<scp>d</scp> or <scp>l</scp>-lactide) Copolymers: A Novel Hydrophilic Methacrylate as Building Block for Supramolecular Aggregates. Macromolecules, 2010, 43, 3314-3324.	4.8	49
107	Supramolecular Linear-g-Hyperbranched Graft Polymers: Topology and Binding Strength of Hyperbranched Side Chains. Macromolecules, 2013, 46, 9544-9553.	4.8	49
108	Towards bio-based tapered block copolymers: the behaviour of myrcene in the statistical anionic copolymerisation. Polymer Chemistry, 2019, 10, 1213-1220.	3.9	49

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109	Experimental data and theoretical considerations on vaporâ€“liquid and liquidâ€“liquid equilibria of hyperbranched polyglycerol and PVA solutions. Fluid Phase Equilibria, 2002, 201, 359-379.	2.5	48
110	Water-Soluble Poly(vinylferrocene)-b-Poly(ethylene oxide) Diblock and Miktoarm Star Polymers. Macromolecules, 2012, 45, 3409-3418.	4.8	48
111	Universal Concept for the Implementation of a Single Cleavable Unit at Tunable Position in Functional Poly(ethylene glycol)s. Biomacromolecules, 2013, 14, 448-459.	5.4	48
112	Hyperbranched polyesters and their application in dental composites: monomers for low shrinking composites. Polymers for Advanced Technologies, 2001, 12, 346-354.	3.2	46
113	Rapid Access to Polyfunctional Lipids with Complex Architecture via Oxyanionic Ring-Opening Polymerization. Macromolecules, 2011, 44, 4648-4657.	4.8	46
114	N,N-Diallylglycidylamine: A Key Monomer for Amino-Functional Poly(ethylene glycol) Architectures. Macromolecules, 2012, 45, 4581-4589.	4.8	45
115	Amphiphilic Linear-Hyperbranched Block Copolymers with Linear Poly(ethylene oxide) and Hyperbranched Poly(carbosilane) Block. Macromolecules, 2008, 41, 9602-9611.	4.8	44
116	Catechol Acetonide Glycidyl Ether (CAGE): A Functional Epoxide Monomer for Linear and Hyperbranched Multi-Catechol Functional Polyether Architectures. Macromolecules, 2016, 49, 1655-1665.	4.8	44
117	Tapered Multiblock Copolymers Based on Farnesene and Styrene: Impact of Biobased Polydiene Architectures on Material Properties. Macromolecules, 2020, 53, 10397-10408.	4.8	44
118	Multihydroxyl-Functional Polystyrenes in Continuous Flow. Macromolecules, 2010, 43, 5582-5588.	4.8	43
119	Polysiloxaneâ€Backbone Block Copolymers in a Oneâ€Pot Synthesis: A Silicone Platform for Facile Functionalization. Macromolecular Rapid Communications, 2012, 33, 1861-1867.	3.9	43
120	Monomer Sequence Distribution Monitoring in Living Carbanionic Copolymerization by Real-Time ¹H NMR Spectroscopy. Macromolecules, 2013, 46, 8467-8471.	4.8	43
121	Hyperbranched polyglycerols by ring-opening multibranching polymerization. Macromolecular Symposia, 2000, 153, 187-196.	0.7	42
122	Water-Soluble â€œPoly(propylene oxide)â€•by Random Copolymerization of Propylene Oxide with a Protected Glycidol Monomer. Macromolecules, 2012, 45, 3039-3046.	4.8	42
123	Dielectric Relaxation in Carbosilane Dendrimers with Perfluorinated End Groups. Macromolecules, 1999, 32, 1962-1966.	4.8	41
124	Bismethacrylate-Based Hybrid Monomers via Michael-Addition Reactions. Macromolecules, 2001, 34, 5778-5785.	4.8	41
125	Stimuliâ€Responsive Yâ€Shaped Polymer Brushes Based on Junctionâ€Pointâ€Reactive Block Copolymers. Advanced Materials, 2012, 24, 5559-5563.	21.0	41
126	Catechol-Initiated Polyethers: Multifunctional Hydrophilic Ligands for PEGylation and Functionalization of Metal Oxide Nanoparticles. Biomacromolecules, 2013, 14, 193-199.	5.4	41

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127	From CO₂â€Based Multifunctional Polycarbonates With a Controlled Number of Functional Groups to Graft Polymers. Macromolecular Chemistry and Physics, 2013, 214, 892-901.	2.2	41
128	A Fully Synthetic Glycopeptide Antitumor Vaccine Based on Multiple Antigen Presentation on a Hyperbranched Polymer. Chemistry - A European Journal, 2014, 20, 4232-4236.	3.3	41
129	Rheological Consequences of Hydrogen Bonding: Linear Viscoelastic Response of Linear Polyglycerol and Its Permethylated Analogues as a General Model for Hydroxyl-Functional Polymers. Macromolecules, 2015, 48, 119-130.	4.8	41
130	Tapered Multiblock Copolymers Based on Isoprene and 4-Methylstyrene: Influence of the Tapered Interface on the Self-Assembly and Thermomechanical Properties. Macromolecules, 2019, 52, 1577-1588.	4.8	41
131	Novel multifunctional hyperbranched polymeric photoinitiators with built-in amine coinitiators for UV curing. Journal of Materials Chemistry, 2007, 17, 3389.	6.7	40
132	Hyperbranchedâ€“linearâ€“hyperbranched ABAâ€type block copolymers based on poly(ethylene oxide) and polyglycerol. Polymer International, 2009, 58, 989-995.	3.1	40
133	Conventional Oxyanionic versus Monomer-Activated Anionic Copolymerization of Ethylene Oxide with Glycidyl Ethers: Striking Differences in Reactivity Ratios. ACS Macro Letters, 2016, 5, 1206-1211.	4.8	40
134	The poly(propylene oxide-co-ethylene oxide) gradient is controlled by the polymerization method: determination of reactivity ratios by direct comparison of different copolymerization models. Polymer Chemistry, 2019, 10, 2863-2871.	3.9	40
135	Synthesis of Poly(silylenemethylene)s Symmetrically Substituted with Alkyl Side Groups Containing 4â^'6 Carbon Atoms. Macromolecules, 1996, 29, 3701-3706.	4.8	39
136	Hyperbranched carbosilane oxazoline-macromonomers: polymerization and coupling to a trimesic acid core. Macromolecular Rapid Communications, 1998, 19, 461-465.	3.9	39
137	A Road Less Traveled to Functional Polymers: Epoxide Termination in Living Carbanionic Polymer Synthesis. Macromolecular Rapid Communications, 2010, 31, 1938-1947.	3.9	39
138	From an Epoxide Monomer Toolkit to Functional PEG Copolymers With Adjustable LCST Behavior. Macromolecular Rapid Communications, 2011, 32, 1930-1934.	3.9	39
139	Linear-Hyperbranched Graft-Copolymers via Grafting-to Strategy Based on Hyperbranched Dendron Analogues and Reactive Ester Polymers. Macromolecules, 2012, 45, 5901-5910.	4.8	39
140	Aliphatic Polycarbonates Based on Carbon Dioxide, Furfuryl Glycidyl Ether, and Glycidyl Methyl Ether: Reversible Functionalization and Crossâ€Linking. Macromolecular Rapid Communications, 2015, 36, 174-179.	3.9	39
141	Carbosilandendrimere â€“ Synthese, Funktionalisierung und Anwendung. Monatshefte FÃ¼r Chemie, 1999, 130, 3.	1.8	39
142	Control of the molecular weight of hyperbranched polyglycerols. Macromolecular Symposia, 2001, 163, 67-74.	0.7	38
143	Stable, Hydroxyl Functional Polycarbonates With Glycerol Side Chains Synthesized From CO₂ and Isopropylidene(glyceryl glycidyl ether). Macromolecular Rapid Communications, 2013, 34, 150-155.	3.9	38
144	Anionic Polymerization of Vinylcatechol Derivatives: Reversal of the Monomer Gradient Directed by the Position of the Catechol Moiety in the Copolymerization with Styrene. Macromolecules, 2016, 49, 4792-4801.	4.8	38

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145	Synthesis and Characterization of Polysilanes. Journal of Macromolecular Science Part A, Chemistry, 1991, 28, 1151-1176.	0.3	37
146	Radiation-induced conductivity in poly(methylphenylsilylene) and poly(di-n-hexylsilylene) studied by time-resolved microwave conductivity. Macromolecules, 1993, 26, 89-93.	4.8	37
147	Controlled Crystallization of CaCO3on Hyperbranched Polyglycerol Adsorbed to Self-Assembled Monolayers. Langmuir, 2005, 21, 3987-3991.	3.5	37
148	Dendritic polyols based on carbosilanes â€•lipophilic dendrimers with hydrophilic skin. Macromolecular Symposia, 1996, 102, 19-26.	0.7	36
149	Controlled Synthesis of Linear Polymers with Highly Branched Side Chains by â€œHypergraftingâ€• Poly(4-hydroxy styrene)-graft-hyperbranched Polyglycerol. ACS Macro Letters, 2012, 1, 461-464.	4.8	36
150	Evaluation of Multifunctional Liposomes in Human Blood Serum by Light Scattering. Langmuir, 2014, 30, 14954-14962.	3.5	36
151	Functional Group Distribution and Gradient Structure Resulting from the Living Anionic Copolymerization of Styrene and para-But-3-enyl Styrene. ACS Macro Letters, 2014, 3, 560-564.	4.8	36
152	Biodegradable pH-Sensitive Poly(ethylene glycol) Nanocarriers for Allergen Encapsulation and Controlled Release. Biomacromolecules, 2015, 16, 3103-3111.	5.4	36
153	Anionic Copolymerization Enables the Scalable Synthesis of Alternating (AB)_n Multiblock Copolymers with High Molecular Weight in n/2 Steps. ACS Macro Letters, 2018, 7, 807-810.	4.8	36
154	Solution-processed transparent ferroelectric nylon thin films. Science Advances, 2019, 5, eaav3489.	10.3	36
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