Holger Frey

List of Publications by Citations

409 papers	18,072 citations	66 h-index	117 g-index
428 ext. papers	19,282 ext. citations	5.6 avg, IF	6.91 L-index

#	Paper	IF	Citations
409	Dendrimers: relationship between structure and biocompatibility in vitro, and preliminary studies on the biodistribution of 125I-labelled polyamidoamine dendrimers in vivo. *Journal of Controlled Release*, **2000**, 65, 133-48	11.7	1054
408	Controlled Synthesis of Hyperbranched Polyglycerols by Ring-Opening Multibranching Polymerization. *Macromolecules*, **1999**, 32, 4240-4246	5.5	921
407	Degree of branching in hyperbranched polymers. *Acta Polymerica*, **1997**, 48, 30-35		655
406	Dendritic polymers in biomedical applications: from potential to clinical use in diagnostics and therapy. *Angewandte Chemie - International Edition*, **2002**, 41, 1329-34	16.4	560
405	Hyperbranched polyglycerols: from the controlled synthesis of biocompatible polyether polyols to multipurpose applications. *Accounts of Chemical Research*, **2010**, 43, 129-41	24.3	462
404	Polymerization of Ethylene Oxide, Propylene Oxide, and Other Alkylene Oxides: Synthesis, Novel Polymer Architectures, and Bioconjugation. *Chemical Reviews*, **2016**, 116, 2170-243	68.1	406
403	Dendritic polyglycerol: a new versatile biocompatible-material. *Reviews in Molecular Biotechnology*, **2002**, 90, 257-67		281
402	Hyperbranched molecular nanocapsules: comparison of the hyperbranched architecture with the perfect linear analogue. *Journal of the American Chemical Society*, **2002**, 124, 9698-9	16.4	279
401	Controlling the growth of polymer trees: concepts and perspectives for hyperbranched polymers. *Chemistry - A European Journal*, **2000**, 6, 2499-506	4.8	255
400	Hyperbranched Polymers Prepared via the Core-Dilution/Slow Addition Technique: Computer Simulation of Molecular Weight Distribution and Degree of Branching. *Macromolecules*, **1998**, 31, 3790-3801	5.5	243
399	Water-Soluble Fluorescent Ag Nanoclusters Obtained from Multiarm Star Poly(acrylic acid) as Molecular Hydrogel Templates. *Advanced Materials*, **2007**, 19, 349-352	24	242
398	Molecular Nanocapsules Based on Amphiphilic Hyperbranched Polyglycerols. *Angewandte Chemie - International Edition*, **1999**, 38, 3552-3555	16.4	227
397	Linear dendritic block copolymers: The state of the art and exciting perspectives. *Progress in Polymer Science*, **2011**, 36, 1-52	29.6	223
396	Ethene and Propene Copolymers Containing Silsesquioxane Side Groups. *Macromolecules*, **1997**, 30, 2818-2824	5.5	214
395	Towards the generation of self-healing materials by means of a reversible photo-induced approach. *Macromolecular Rapid Communications*, **2011**, 32, 468-73	4.8	173
394	A mesogen-functionized carbosilane dendrimer: A dendritic liquid crystalline polymer. *Advanced Materials*, **1996**, 8, 414-416	24	163
393	Beyond poly(ethylene glycol): linear polyglycerol as a multifunctional polyether for biomedical and pharmaceutical applications. *Biomacromolecules*, **2014**, 15, 1935-54	6.9	157

392	Functional Poly(ethylene oxide) Multiarm Star Polymers: Core-First Synthesis Using Hyperbranched Polyglycerol Initiators. *Macromolecules*, **2000**, 33, 315-320	5.5	151
391	Degree of branching in hyperbranched polymers. 3 Copolymerization of ABm-monomers with AB and ABn-monomers. *Acta Polymerica*, **1999**, 50, 67-76		151
390	Multifunctional Poly(ethylene glycol)s. *Angewandte Chemie - International Edition*, **2011**, 50, 7988-97	16.4	150
389	Microflow Technology in Polymer Synthesis. *Macromolecules*, **2012**, 45, 9551-9570	5.5	148
388	Heteroatom-Based Dendrimers. *Advanced Materials*, **1998**, 10, 279-293	24	145
387	Gold nanoparticles coated with a thermosensitive hyperbranched polyelectrolyte: towards smart temperature and pH nanosensors. *Angewandte Chemie - International Edition*, **2008**, 47, 2227-30	16.4	143
386	Relationship between the structure of amphiphilic copolymers and their ability to disturb lipid bilayers. *Biochemistry*, **2005**, 44, 4042-54	3.2	135
385	An Approach to Core Shell-Type Architectures in Hyperbranched Polyglycerols by Selective Chemical Differentiation. *Macromolecules*, **2000**, 33, 8158-8166	5.5	135
384	Carbosilane Dendrimers with Perfluoroalkyl End Groups. Core Shell Macromolecules with Generation-Dependent Order. *Macromolecules*, **1997**, 30, 6860-6868	5.5	126
383	From Random Coil to Extended Nanocylinder: Dendrimer Fragments Shape Polymer Chains. *Angewandte Chemie - International Edition*, **1998**, 37, 2193-2197	16.4	122
382	Role of cyclization in the synthesis of hyperbranched aliphatic polyesters. *Macromolecular Chemistry and Physics*, **2000**, 201, 782-791	2.6	113
381	Hyperbranched Polyether Polyols Based on Polyglycerol: Polarity Design by Block Copolymerization with Propylene Oxide. *Macromolecules*, **2000**, 33, 309-314	5.5	111
380	Hyperbranched Polyglycerols with Elevated Molecular Weights: A Facile Two-Step Synthesis Protocol Based on Polyglycerol Macroinitiators. *Macromolecules*, **2009**, 42, 3230-3236	5.5	107
379	Synthesis and noncovalent protein conjugation of linear-hyperbranched PEG-poly(glycerol) alpha,omega(n)-telechelics. *Journal of the American Chemical Society*, **2009**, 131, 7954-5	16.4	105
378	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	5.5	104
377	Double-Hydrophilic Linear-Hyperbranched Block Copolymers Based on Poly(ethylene oxide) and Poly(glycerol). *Macromolecules*, **2008**, 41, 1184-1188	5.5	104
376	Thermal Properties of the Homologous Series of 8-fold Alkyl-Substituted Octasilsesquioxanes. *Chemistry of Materials*, **1997**, 9, 1475-1479	9.6	103
375	Microstructured Reactors for Polymer Synthesis: A Renaissance of Continuous Flow Processes for Tailor-Made Macromolecules?. *Macromolecular Chemistry and Physics*, **2008**, 209, 343-356	2.6	103

374	Carbosilane-Based Dendritic Polyols. *Macromolecules*, **1995**, 28, 6657-6661	5.5	102
373	Preparation of Catalytically Active Palladium Nanoclusters in Compartments of Amphiphilic Hyperbranched Polyglycerols. *Macromolecules*, **2000**, 33, 3958-3960	5.5	95
372	Poly(ethylene glycol-co-allyl glycidyl ether)s: a PEG-based modular synthetic platform for multiple bioconjugation. *Bioconjugate Chemistry*, **2011**, 22, 436-44	6.3	92
371	Encapsulation of Hydrophilic Pincer Platinum(II) Complexes in Amphiphilic Hyperbranched Polyglycerol Nanocapsules. *Macromolecules*, **2002**, 35, 5734-5737	5.5	92
370	Role of Topology and Amphiphilicity for Guest Encapsulation in Functionalized Hyperbranched Poly(ethylenimine)s. *Macromolecules*, **2005**, 38, 227-229	5.5	91
369	Linear-dendritic nonionic poly(propylene oxide) polyglycerol surfactants. *Tetrahedron*, **2003**, 59, 4017-4024	2.4	91
368	Hyperbranched Polylactide Copolymers. *Macromolecules*, **2006**, 39, 1719-1723	5.5	87
367	Carboxylated and Sulfonated Poly(arylene-co-arylene sulfone)s: Thermostable Polyelectrolytes for Fuel Cell Applications. *Macromolecules*, **2002**, 35, 7936-7941	5.5	86
366	Fullerene-End-Capped Polystyrenes. Monosubstituted Polymeric C60 Derivatives. *Macromolecules*, **1995**, 28, 403-405	5.5	83
365	Functional Polycarbonates from Carbon Dioxide and Tailored Epoxide Monomers: Degradable Materials and Their Application Potential. *Advanced Functional Materials*, **2018**, 28, 1704302	15.6	82
364	Oxidation-Responsive and "Clickable" Poly(ethylene glycol) via Copolymerization of 2-(Methylthio)ethyl Glycidyl Ether. *Journal of the American Chemical Society*, **2016**, 138, 9212-23	16.4	82
363	Poly(1,2-glycerol carbonate): A Fundamental Polymer Structure Synthesized from CO2 and Glycidyl Ethers. *Macromolecules*, **2013**, 46, 3280-3287	5.5	80
362	Amino Functional Poly(ethylene glycol) Copolymers via Protected Amino Glycidol. *Macromolecules*, **2010**, 43, 2244-2251	5.5	79
361	Enzyme-Catalyzed Synthesis of Hyperbranched Aliphatic Polyesters. *Macromolecular Rapid Communications*, **2002**, 23, 292-296	4.8	79
360	Copolymers of Glycidol and Glycidyl Ethers: Design of Branched Polyether Polyols by Combination of Latent Cyclic AB2 and ABR Monomers. *Macromolecules*, **2000**, 33, 7682-7692	5.5	79
359	Functional PEG-based polymers with reactive groups via anionic ROP of tailor-made epoxides. *Polymer Chemistry*, **2012**, 3, 1714	4.9	78
358	Macromolecular-Multisite Catalysts Obtained by Grafting Diaminoaryl Palladium(ii) Complexes onto a Hyperbranched-Polytriallylsilane Support. *Angewandte Chemie - International Edition*, **2000**, 39, 3445-3447	16.4	78
357	Chiral Hyperbranched Dendron Analogues. *Macromolecules*, **2000**, 33, 253-254	5.5	71

356	Silsesquioxane-Based Amphiphiles. *Langmuir*, **1999**, 15, 4752-4756	4	71
355	Silicon-Based Dendrimers. *Topics in Current Chemistry*, **2000**, 69-129		71
354	Mono- and Multilayers of Mesogen-Substituted Carbosilane Dendrimers on Mica. *Macromolecules*, **1996**, 29, 8069-8076	5.5	69
353	Grafting of hyperbranched polymers: From unusual complex polymer topologies to multivalent surface functionalization. *Polymer*, **2013**, 54, 5443-5455	3.9	68
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348	Ferrocenyl Glycidyl Ether: A Versatile Ferrocene Monomer for Copolymerization with Ethylene Oxide to Water-Soluble, Thermoresponsive Copolymers. *Macromolecules*, **2013**, 46, 647-655	5.5	66
347	PEG-based Multifunctional Polyethers with Highly Reactive Vinyl-Ether Side Chains for Click-Type Functionalization. *Macromolecules*, **2011**, 44, 6326-6334	5.5	66
346	Hyperbranched polycarbosilane macromonomers bearing oxazoline functionalities. *Macromolecular Rapid Communications*, **1997**, 18, 253-260	4.8	66
345	Hyperbranched Polymers:Structure of Hyperbranched Polyglycerol and Amphiphilic Poly(glycerol ester)s in Dilute Aqueous and Nonaqueous Solution. *Macromolecules*, **2004**, 37, 8394-8399	5.5	66
344	Enhancing the Degree of Branching of Hyperbranched Polymers by Postsynthetic Modification. *Macromolecules*, **1998**, 31, 2381-2383	5.5	66
343	Electroactive linear-hyperbranched block copolymers based on linear poly(ferrocenylsilane)s and hyperbranched poly(carbosilane)s. *Chemistry - A European Journal*, **2009**, 15, 9068-77	4.8	62
342	Linear-Hyperbranched Amphiphilic AB Diblock Copolymers Based on Polystyrene and Hyperbranched Polyglycerol. *Macromolecular Rapid Communications*, **2005**, 26, 862-867	4.8	62
341	Multi-Arm Star Polyglycerol-block-poly(tert-butyl acrylate) and the Respective Multi-Arm Poly(acrylic acid) Stars. *Macromolecular Chemistry and Physics*, **2006**, 207, 57-64	2.6	61
340	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	3.8	61
339	Synthesis and Thermal Behavior of Esterified Aliphatic Hyperbranched Polyether Polyols. *Macromolecules*, **2000**, 33, 1330-1337	5.5	61

338	Synthesis of Hyperbranched Aromatic Homo- and Copolyesters via the Slow Monomer Addition Method. *Macromolecules*, **2001**, 34, 7692-7698	5.5	60
337	Squaric acid mediated synthesis and biological activity of a library of linear and hyperbranched poly(glycerol)-protein conjugates. *Biomacromolecules*, **2012**, 13, 1161-71	6.9	58
336	Synthesis and Characterization of Poly(glyceryl glycerol) Block Copolymers. *Macromolecules*, **2008**, 41, 1909-1911	5.5	58
335	Multi-arm star block copolymers based on ε-caprolactone with hyperbranched polyglycerol core. *Macromolecular Chemistry and Physics*, **2000**, 201, 792-797	2.6	58
334	Carbanions on Tap – Living Anionic Polymerization in a Microstructured Reactor. *Macromolecular Chemistry and Physics*, **2008**, 209, 1106-1114	2.6	57
333	Hockey-Puck micelles from oligo(p-benzamide)-b-PEG rod-coil block copolymers. *Angewandte Chemie - International Edition*, **2006**, 45, 2969-75	16.4	57
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328	Intrinsic superoxide dismutase activity of MnO nanoparticles enhances the magnetic resonance imaging contrast. *Journal of Materials Chemistry B*, **2016**, 4, 7423-7428	7.3	54
327	Linear-Hyperbranched Block Copolymers Consisting of Polystyrene and Dendritic Poly(carbosilane) Block. *Macromolecules*, **2006**, 39, 971-977	5.5	54
326	Synthesis of multiarm star poly(glycerol)-block-poly(2-hydroxyethyl methacrylate). *Biomacromolecules*, **2006**, 7, 919-26	6.9	53
325	Synthesis of reactive hyperbranched and star-like polyethers and their use for toughening of vinylester–urethane hybrid resins. *Polymer*, **2004**, 45, 1185-1195	3.9	53
324	Hetero-Multifunctional Poly(ethylene glycol) Copolymers with Multiple Hydroxyl Groups and a Single Terminal Functionality. *Macromolecular Rapid Communications*, **2010**, 31, 258-64	4.8	52
323	Hyperbranched Poly(propylene oxide): A Multifunctional Backbone-Thermoresponsive Polyether Polyol Copolymer. *ACS Macro Letters*, **2012**, 1, 888-891	6.6	51
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321	Chiral Poly(dipentylsilylene) Copolymers. *Macromolecules*, **1994**, 27, 1814-1818	5.5	51

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318	Hyperbranched PEG by random copolymerization of ethylene oxide and glycidol. *Macromolecular Rapid Communications*, **2010**, 31, 1811-5	4.8	50
317	2O3 Superparticles with Enhanced Peroxidase Activity by Solution Phase Epitaxial Growth. *Chemistry of Materials*, **2017**, 29, 1134-1146	9.6	49
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315	Synthesis and supramolecular association of immobilized NCN-pincer platinum(II) complexes on hyperbranched polyglycerol supports. *Chemistry - A European Journal*, **2004**, 10, 1267-73	4.8	49
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313	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	5.5	46
312	Water-Soluble Poly(vinylferrocene)-b-Poly(ethylene oxide) Diblock and Miktoarm Star Polymers. *Macromolecules*, **2012**, 45, 3409-3418	5.5	46
311	Hyperbranched polyesters and their application in dental composites: monomers for low shrinking composites. *Polymers for Advanced Technologies*, **2001**, 12, 346-354	3.2	46
310	Synergistic assembly of hyperbranched polyethylenimine and fatty acids leading to unusual supramolecular nanocapsules. *Chemical Communications*, **2005**, 755-7	5.8	45
309	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	5.5	44
308	Poly(isoglycerol methacrylate)-b-poly(d or l-lactide) Copolymers: A Novel Hydrophilic Methacrylate as Building Block for Supramolecular Aggregates. *Macromolecules*, **2010**, 43, 3314-3324	5.5	44
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299	From CO2-Based Multifunctional Polycarbonates With a Controlled Number of Functional Groups to Graft Polymers. *Macromolecular Chemistry and Physics*, **2013**, 214, 892-901	2.6	39
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295	Catechol-initiated polyethers: multifunctional hydrophilic ligands for PEGylation and functionalization of metal oxide nanoparticles. *Biomacromolecules*, **2013**, 14, 193-9	6.9	38
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293	Hyperbranched polyglycerols by ring-opening multibranching polymerization. *Macromolecular Symposia*, **2000**, 153, 187-196	0.8	38
292	Dielectric Relaxation in Carbosilane Dendrimers with Perfluorinated End Groups. *Macromolecules*, **1999**, 32, 1962-1966	5.5	38
291	Catechol Acetonide Glycidyl Ether (CAGE): A Functional Epoxide Monomer for Linear and Hyperbranched Multi-Catechol Functional Polyether Architectures. *Macromolecules*, **2016**, 49, 1655-1665	5.5	37
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266	Novel Multifunctional Polymeric Photoinitiators and Photo-Coinitiators Derived from Hyperbranched Polyglycerol. *Macromolecular Chemistry and Physics*, **2007**, 208, 1694-1706	2.6	32
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261	Propargyl-functional aliphatic polycarbonate obtained from carbon dioxide and glycidyl propargyl ether. *Macromolecular Rapid Communications*, **2013**, 34, 1395-400	4.8	31
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