

Frederik R Wurm

List of Publications by Year in Descending Order

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The third column is the impact factor (IF) of the journal, and the fourth column is the number of citations of the article.

239
papers

9,109
citations

46
h-index

86
g-index

260
ext. papers

10,904
ext. citations

7.8
avg, IF

6.89
L-index

#	Paper	IF	Citations
239	Biopolymer-based nanocarriers for sustained release of agrochemicals: A review on materials and social science perspectives for a sustainable future of agri- and horticulture.. <i>Advances in Colloid and Interface Science</i> , 2022 , 303, 102645	14.3	3
238	RNA-inspired intramolecular transesterification accelerates the hydrolysis of polyethylene-like polyphosphoesters.. <i>Chemical Science</i> , 2021 , 12, 16054-16064	9.4	1
237	Development of physical, mechanical, antibacterial and cell growth properties of poly(glycerol sebacate urethane) (PGSU) with helping of curcumin and hydroxyapatite nanoparticles. <i>Polymer Chemistry</i> , 2021 , 12, 6263-6282	4.9	5
236	Polyphosphonate-Based Macromolecular RAFT-CTA Enables the Synthesis of Well-Defined Block Copolymers Using Vinyl Monomers.. <i>ACS Macro Letters</i> , 2021 , 10, 1273-1279	6.6	0
235	RNA-Inspired and Accelerated Degradation of Polylactide in Seawater. <i>Journal of the American Chemical Society</i> , 2021 , 143, 16673-16681	16.4	5
234	Targeted Drug Delivery for Sustainable Crop Protection: Transport and Stability of Polymeric Nanocarriers in Plants. <i>Advanced Science</i> , 2021 , 8, e2100067	13.6	9
233	Display of hidden properties of flexible aerogel based on bacterial cellulose/polyaniline nanocomposites with helping of multiscale modeling. <i>European Polymer Journal</i> , 2021 , 146, 110251	5.2	9
232	Effect of Polymer Hydrophilicity and Molar Mass on the Properties of the Protein in Protein-Polymer Conjugates: The Case of PPEylated Myoglobin. <i>Biomacromolecules</i> , 2021 , 22, 1932-1943	6.9	2
231	Anticancer effect of green tea extract (GTE)-Loaded pH-responsive niosome Coated with PEG against different cell lines. <i>Materials Today Communications</i> , 2021 , 26, 101751	2.5	15
230	Conformation of Myoglobin-Poly(Ethyl Ethylene Phosphate) Conjugates Probed by SANS: Correlation with Polymer Grafting Density and Interaction. <i>Macromolecular Bioscience</i> , 2021 , 21, e2000356	5.5	0
229	Enzyme-Loaded Nanoreactors Enable the Continuous Regeneration of Nicotinamide Adenine Dinucleotide in Artificial Metabolisms. <i>Angewandte Chemie</i> , 2021 , 133, 7807-7813	3.6	2
228	Green synthesis and characterization of poly(glycerol-azelaic acid) and its nanocomposites for applications in regenerative medicine. <i>Journal of Applied Polymer Science</i> , 2021 , 138, 50563	2.9	7
227	Enzyme-Loaded Nanoreactors Enable the Continuous Regeneration of Nicotinamide Adenine Dinucleotide in Artificial Metabolisms. <i>Angewandte Chemie - International Edition</i> , 2021 , 60, 7728-7734	16.4	11
226	Cellulose nanocarriers via miniemulsion allow Pathogen-Specific agrochemical delivery. <i>Journal of Colloid and Interface Science</i> , 2021 , 601, 678-688	9.3	5
225	Polymer defect engineering [conductive 2D organic platelets from precise thiophene-doped polyethylene. <i>Polymer Chemistry</i> , 2021 , 12, 2045-2053	4.9	1
224	Synthetic lignin-like and degradable nanocarriers. <i>Polymer Chemistry</i> , 2021 , 12, 4661-4667	4.9	1
223	Multimodal Enzyme-Carrying Suprastructures for Rapid and Sensitive Biocatalytic Cascade Reactions.. <i>Advanced Science</i> , 2021 , e2104884	13.6	1

222	Pesticide-Loaded Nanocarriers from Lignin Sulfonates-A Promising Tool for Sustainable Plant Protection. <i>ACS Sustainable Chemistry and Engineering</i> , 2020 , 8, 18468-18475	8.3	11
221	Fungicide-loaded and biodegradable xylan-based nanocarriers. <i>Biopolymers</i> , 2020 , 111, e23413	2.2	8
220	Aqueous core and hollow silica nanocapsules for confined enzyme modules. <i>Nanoscale</i> , 2020 , 12, 24266-24272	2.5	5
219	Crystallization of Poly(ethylene)s with Regular Phosphoester Defects Studied at the Air-Water Interface. <i>Polymers</i> , 2020 , 12,	4.5	3
218	Defect engineering of polyethylene-like polyphosphoesters: solid-state NMR characterization and surface chemistry of anisotropic polymer nanoplatelets. <i>Polymer Chemistry</i> , 2020 , 11, 7235-7243	4.9	1
217	Polyphosphoester surfactants as general stealth coatings for polymeric nanocarriers. <i>Acta Biomaterialia</i> , 2020 , 116, 318-328	10.8	11
216	Mimic of the Cellular Antioxidant Defense System for a Sustainable Regeneration of Nicotinamide Adenine Dinucleotide (NAD). <i>ACS Applied Materials & Interfaces</i> , 2020 , 12, 25625-25632	9.5	9
215	Controlling the crystal structure of precisely spaced polyethylene-like polyphosphoesters. <i>Polymer Chemistry</i> , 2020 , 11, 3404-3415	4.9	8
214	Membrane Engineering: Phase Separation in Polymeric Giant Vesicles. <i>Small</i> , 2020 , 16, e1905230	11	1
213	Biodegradable, lignin-based encapsulation enables delivery of with programmed enzymatic release against grapevine trunk diseases. <i>Materials Today Bio</i> , 2020 , 7, 100061	9.9	14
212	Water-soluble and degradable polyphosphorodiamidates via thiol-ene polyaddition. <i>Polymer Degradation and Stability</i> , 2020 , 179, 109224	4.7	2
211	Bio-Based Lignin Nanocarriers Loaded with Fungicides as a Versatile Platform for Drug Delivery in Plants. <i>Biomacromolecules</i> , 2020 , 21, 2755-2763	6.9	38
210	Intrinsic flame retardant phosphonate-based vitrimers as a recyclable alternative for commodity polymers in composite materials. <i>Polymer Chemistry</i> , 2020 , 11, 4933-4941	4.9	11
209	Controlling the biodegradation rates of poly(globalide-co-ε-caprolactone) copolymers by post polymerization modification. <i>Polymer Degradation and Stability</i> , 2020 , 179, 109287	4.7	7
208	Hydrophilic polyphosphoester-conjugated fluorinated chlorin as an entirely biodegradable nano-photosensitizer for reliable and efficient photodynamic therapy. <i>Chemical Communications</i> , 2020 , 56, 2415-2418	5.8	10
207	Vitamin C Loaded Polyethylene: Synthesis and Properties of Precise Polyethylene with Vitamin C Defects via Acyclic Diene Metathesis Polycondensation. <i>Macromolecules</i> , 2020 , 53, 2932-2941	5.5	2
206	Clean synthesis of linear and star amphiphilic poly(ε-caprolactone)-block-poly(ethyl ethylene phosphonate) block copolymers: assessing self-assembly and surface activity. <i>Green Chemistry</i> , 2020 , 22, 3248-3261	10	5
205	One-Step Ring Opening Metathesis Block-Like Copolymers and their Compositional Analysis by a Novel Retardation Technique. <i>Angewandte Chemie - International Edition</i> , 2020 , 59, 13597-13601	16.4	12

204	Linear Well-Defined Polyamines via Anionic Ring-Opening Polymerization of Activated Aziridines: From Mild Desulfonation to Cell Transfection. <i>ACS Macro Letters</i> , 2020 , 9, 20-25	6.6	10
203	Oncolytic Nanoreactors Producing Hydrogen Peroxide for Oxidative Cancer Therapy. <i>Nano Letters</i> , 2020 , 20, 526-533	11.5	38
202	Sulfur's role in the flame retardancy of thio-ether-linked hyperbranched polyphosphoesters in epoxy resins. <i>European Polymer Journal</i> , 2020 , 122, 109390	5.2	17
201	Developing antibacterial superhydrophobic coatings based on polydimethylsiloxane/silver phosphate nanocomposites: Assessment of surface morphology, roughness and chemistry. <i>Progress in Organic Coatings</i> , 2020 , 149, 105944	4.8	8
200	Poly(methyl ethylene phosphate) hydrogels: Degradable and cell-repellent alternatives to PEG-hydrogels. <i>European Polymer Journal</i> , 2020 , 141, 110075	5.2	7
199	Main-chain water-soluble polyphosphoesters: Multi-functional polymers as degradable PEG-alternatives for biomedical applications. <i>European Polymer Journal</i> , 2020 , 141, 110079	5.2	28
198	Cubosomes stabilized by a polyphosphoester-analog of Pluronic F127 with reduced cytotoxicity. <i>Journal of Colloid and Interface Science</i> , 2020 , 580, 286-297	9.3	29
197	Plastics and the Environment-Current Status and Challenges in Germany and Australia. <i>Macromolecular Rapid Communications</i> , 2020 , 41, e2000351	4.8	11
196	Die PET-Mineralwasserflasche. <i>Chemie in Unserer Zeit</i> , 2020 , 54, 14-20	0.2	1
195	Nonionic surfactants based on amphiphilic polyphosphonate copolymers prepared via anionic ring-opening copolymerization. <i>European Polymer Journal</i> , 2020 , 131, 109700	5.2	2
194	Insight into Protein-Polymer Conjugate Relaxation Dynamics: The Importance of Polymer Grafting. <i>Macromolecular Bioscience</i> , 2020 , 20, e1900410	5.5	4
193	Seawater-Degradable Polymers-Fighting the Marine Plastic Pollution. <i>Advanced Science</i> , 2020 , 8, 2001121	13.6	53
192	One-Step Ring Opening Metathesis Block-Like Copolymers and their Compositional Analysis by a Novel Retardation Technique. <i>Angewandte Chemie</i> , 2020 , 132, 13699-13703	3.6	2
191	Matrix matters: Hyperbranched flame retardants in aliphatic and aromatic epoxy resins. <i>Polymer Degradation and Stability</i> , 2019 , 170, 108986	4.7	20
190	Both Poly(ethylene glycol) and Poly(methyl ethylene phosphate) Guide Oriented Adsorption of Specific Proteins. <i>Langmuir</i> , 2019 , 35, 14092-14097	4	2
189	Protein-Polymer Dynamics as Affected by Polymer Coating and Interactions. <i>Langmuir</i> , 2019 , 35, 2674-2679	4.7	7
188	Aliphatic Long-Chain Polypyrophosphates as Biodegradable Polyethylene Mimics. <i>Macromolecules</i> , 2019 , 52, 1166-1172	5.5	8
187	Copolymerization of Cyclic Phosphonate and Lactide: Synthetic Strategies toward Control of Amphiphilic Microstructure. <i>Macromolecules</i> , 2019 , 52, 1220-1226	5.5	7

186	Noncovalent Hydrogen Bonds Tune the Mechanical Properties of Phosphoester Polyethylene Mimics. <i>ACS Omega</i> , 2019 , 4, 9324-9332	3.9	7
185	Targeted Drug Delivery in Plants: Enzyme-Responsive Lignin Nanocarriers for the Curative Treatment of the Worldwide Grapevine Trunk Disease Esca. <i>Advanced Science</i> , 2019 , 6, 1802315	13.6	38
184	Magnetoliposomes with size controllable insertion of magnetic nanoparticles for efficient targeting of cancer cells.. <i>RSC Advances</i> , 2019 , 9, 15053-15060	3.7	10
183	Aziridines and azetidines: building blocks for polyamines by anionic and cationic ring-opening polymerization. <i>Polymer Chemistry</i> , 2019 , 10, 3257-3283	4.9	42
182	Systematically Controlled Decomposition Mechanism in Phosphorus Flame Retardants by Precise Molecular Architecture: PD vs P _N . <i>ACS Applied Polymer Materials</i> , 2019 , 1, 1118-1128	4.3	36
181	Phosphonylation Controls the Protein Corona of Multifunctional Polyglycerol-Modified Nanocarriers. <i>Macromolecular Bioscience</i> , 2019 , 19, e1800468	5.5	3
180	Self-Assembly of Giant Unilamellar Vesicles by Film Hydration Methodologies. <i>Advanced Biology</i> , 2019 , 3, e1800324	3.5	19
179	From Compost to Colloids Valorization of Spent Mushroom Substrate. <i>ACS Sustainable Chemistry and Engineering</i> , 2019 , 7, 6991-6998	8.3	11
178	Long-Chain Polyorthoesters as Degradable Polyethylene Mimics. <i>Macromolecules</i> , 2019 , 52, 2411-2420	5.5	25
177	Polymer-Based Module for NAD Regeneration with Visible Light. <i>ChemBioChem</i> , 2019 , 20, 2593-2596	3.8	18
176	Effect of Polymer Chain Density on Protein-Polymer Conjugate Conformation. <i>Biomacromolecules</i> , 2019 , 20, 1944-1955	6.9	15
175	Kunststoffe der Zukunft? Der Einfluss von bioabbaubaren Polymeren auf Umwelt und Gesellschaft. <i>Angewandte Chemie</i> , 2019 , 131, 50-63	3.6	20
174	Plastics of the Future? The Impact of Biodegradable Polymers on the Environment and on Society. <i>Angewandte Chemie - International Edition</i> , 2019 , 58, 50-62	16.4	444
173	Hyperbranched phosphorus flame retardants: multifunctional additives for epoxy resins. <i>Polymer Chemistry</i> , 2019 , 10, 4346-4358	4.9	43
172	Covalently Binding of Bovine Serum Albumin to Unsaturated Poly(Globalide-Co-ε-Caprolactone) Nanoparticles by Thiol-Ene Reactions. <i>Macromolecular Bioscience</i> , 2019 , 19, e1900145	5.5	9
171	Aromatic vs. Aliphatic Hyperbranched Polyphosphoesters as Flame Retardants in Epoxy Resins. <i>Molecules</i> , 2019 , 24,	4.8	11
170	Noncovalent Targeting of Nanocarriers to Immune Cells with Polyphosphoester-Based Surfactants in Human Blood Plasma. <i>Advanced Science</i> , 2019 , 6, 1901199	13.6	8
169	Nanosopic hydrophilic/hydrophilic phase-separation well below the LCST of polyphosphoesters. <i>Chemical Communications</i> , 2019 , 55, 3414-3417	5.8	11

168	Thermo-Responsive Polymer Brushes with Side Graft Chains: Relationship Between Molecular Architecture and Underwater Adherence. <i>International Journal of Molecular Sciences</i> , 2019 , 20,	6.3	2
167	Competitive Copolymerization: Access to Aziridine Copolymers with Adjustable Gradient Strengths. <i>Macromolecules</i> , 2019 , 52, 9703-9714	5.5	14
166	First phosphorus AB2 monomer for flame-retardant hyperbranched polyphosphoesters: AB2vs. A2 + B3. <i>Polymer Chemistry</i> , 2019 , 10, 5920-5930	4.9	14
165	Supercooled Water Drops Do Not Freeze During Impact on Hybrid Janus Particle-Based Surfaces. <i>Chemistry of Materials</i> , 2019 , 31, 112-123	9.6	13
164	Thermodynamic stability of myoglobin-poly(ethylene glycol) bioconjugates: A calorimetric study. <i>Thermochimica Acta</i> , 2019 , 671, 26-31	2.9	9
163	Ligand-Binding Cooperativity Effects in Polymer-Protein Conjugation. <i>Biomacromolecules</i> , 2019 , 20, 1118-1131	10.1	1318
162	Interfacial Conformation of Hydrophilic Polyphosphoesters Affects Blood Protein Adsorption. <i>ACS Applied Materials & Interfaces</i> , 2019 , 11, 1624-1629	9.5	15
161	Hydrophilicity Regulates the Stealth Properties of Polyphosphoester-Coated Nanocarriers. <i>Angewandte Chemie - International Edition</i> , 2018 , 57, 5548-5553	16.4	66
160	Crystallization of a polyphosphoester at the air-water interface. <i>European Polymer Journal</i> , 2018 , 101, 350-357	5.2	10
159	Trendbericht Makromolekulare Chemie 2017: Chemie. <i>Nachrichten Aus Der Chemie</i> , 2018 , 66, 327-334	0.1	
158	Hydrophilie als bestimmender Faktor des Stealth-Effekts von Polyphosphoester-funktionalisierten Nanoträgern. <i>Angewandte Chemie</i> , 2018 , 130, 5647-5653	3.6	8
157	Polymerizing Phostones: A Fast Way to In-Chain Poly(phosphonate)s with Adjustable Hydrophilicity. <i>Macromolecules</i> , 2018 , 51, 1272-1279	5.5	15
156	Kontrollierte Polymermikrostruktur in anionischer Polymerisation durch Kompartimentierung. <i>Angewandte Chemie</i> , 2018 , 130, 2509-2513	3.6	2
155	Surface-attached poly(phosphoester)-hydrogels with benzophenone groups. <i>Polymer Chemistry</i> , 2018 , 9, 315-326	4.9	16
154	Temperature responsive poly(phosphonate) copolymers: from single chains to macroscopic coacervates. <i>Polymer Chemistry</i> , 2018 , 9, 490-498	4.9	15
153	A modular approach for multifunctional polymersomes with controlled adhesive properties. <i>Soft Matter</i> , 2018 , 14, 894-900	3.6	13
152	Molekulare Brandbekämpfung wie moderne Phosphorchemie zur Lösung der Flammschutzaufgabe beitragen kann. <i>Angewandte Chemie</i> , 2018 , 130, 10608-10626	3.6	11
151	Molecular Firefighting-How Modern Phosphorus Chemistry Can Help Solve the Challenge of Flame Retardancy. <i>Angewandte Chemie - International Edition</i> , 2018 , 57, 10450-10467	16.4	268

150	Selective Initiation from Unprotected Aminoalcohols for the N-Heterocyclic Carbene-Organocatalyzed Ring-Opening Polymerization of 2-Methyl-N-tosyl Aziridine: Telechelic and Block Copolymer Synthesis. <i>Macromolecules</i> , 2018 , 51, 2533-2541	5.5	29
149	4-Styrenesulfonyl-(2-methyl)aziridine: The First Bivalent Aziridine-Monomer for Anionic and Radical Polymerization. <i>Macromolecular Chemistry and Physics</i> , 2018 , 219, 1700145	2.6	15
148	Alcohol- and Water-Tolerant Living Anionic Polymerization of Aziridines. <i>Macromolecules</i> , 2018 , 51, 5713-5719	5.7	18
147	Microwave-Assisted Desulfonylation of Polysulfonamides toward Polypropylenimine. <i>ACS Macro Letters</i> , 2018 , 7, 598-603	6.6	17
146	Chapter 10: Organocatalytic Ring-opening Polymerization Towards Poly(cyclopropane)s, Poly(lactame)s, Poly(aziridine)s, Poly(siloxane)s, Poly(carbosiloxane)s, Poly(phosphate)s, Poly(phosphonate)s, Poly(thiolactone)s, Poly(thionolactone)s and Poly(thiirane)s. <i>RSC Polymer Chemistry Series</i> , 2018 , 406-472	1.3	1
145	Controlling the Polymer Microstructure in Anionic Polymerization by Compartmentalization. <i>Angewandte Chemie - International Edition</i> , 2018 , 57, 2483-2487	16.4	34
144	Large-Scale Preparation of Polymer Nanocarriers by High-Pressure Microfluidization. <i>Macromolecular Materials and Engineering</i> , 2018 , 303, 1700505	3.9	14
143	Giant polymersomes from non-assisted film hydration of phosphate-based block copolymers. <i>Polymer Chemistry</i> , 2018 , 9, 5385-5394	4.9	19
142	The 2-acetylthioethyl ester group: A versatile protective group for P-OH-groups. <i>Tetrahedron</i> , 2018 , 74, 7426-7430	2.4	2
141	Protein Corona Mediated Stealth Properties of Biocompatible Carbohydrate-based Nanocarriers. <i>Israel Journal of Chemistry</i> , 2018 , 58, 1363-1372	3.4	10
140	Fast Access to Amphiphilic Multiblock Architectures by the Anionic Copolymerization of Aziridines and Ethylene Oxide. <i>Journal of the American Chemical Society</i> , 2018 , 140, 13407-13412	16.4	44
139	PPEylation of proteins: Synthesis, activity, and stability of myoglobin-polyphosphoester conjugates. <i>European Polymer Journal</i> , 2018 , 108, 357-363	5.2	14
138	Functional biodegradable polymers via ring-opening polymerization of monomers without protective groups. <i>Chemical Society Reviews</i> , 2018 , 47, 7739-7782	58.5	89
137	Mechanistic study on the hydrolytic degradation of polyphosphates. <i>European Polymer Journal</i> , 2018 , 108, 286-294	5.2	27
136	Biomimetic Cascade Network between Interactive Multicompartmental Organized by Enzyme-Loaded Silica Nanoreactors. <i>ACS Applied Materials & Interfaces</i> , 2018 , 10, 34230-34237	9.5	25
135	Liposomes and polymersomes: a comparative review towards cell mimicking. <i>Chemical Society Reviews</i> , 2018 , 47, 8572-8610	58.5	458
134	Joining Two Natural Motifs: Catechol-Containing Poly(phosphoester)s. <i>Biomacromolecules</i> , 2017 , 18, 767-777	6.9	20
133	Makromolekulare Chemie 2016. <i>Nachrichten Aus Der Chemie</i> , 2017 , 65, 348-358	0.1	

132	Fully degradable protein nanocarriers by orthogonal photoclick tetrazole-ene chemistry for the encapsulation and release. <i>Nanoscale Horizons</i> , 2017 , 2, 297-302	10.8	10
131	Triazolinedione-clicked-poly(phosphoester)s: systematic adjustment of thermal properties. <i>Polymer Chemistry</i> , 2017 , 8, 4074-4078	4.9	15
130	Breathing air as oxidant: Optimization of 2-chloro-2-oxo-1,3,2-dioxaphospholane synthesis as a precursor for phosphoryl choline derivatives and cyclic phosphate monomers. <i>Tetrahedron</i> , 2017 , 73, 3536-3540	2.4	10
129	Main-chain poly(phosphoester)s: History, syntheses, degradation, bio-and flame-retardant applications. <i>Progress in Polymer Science</i> , 2017 , 73, 61-122	29.6	123
128	Poly(alkyl ethylene phosphonate)s: A New Class of Non-amide Kinetic Hydrate Inhibitor Polymers. <i>Energy & Fuels</i> , 2017 , 31, 3843-3848	4.1	23
127	The living anionic polymerization of activated aziridines: a systematic study of reaction conditions and kinetics. <i>Polymer Chemistry</i> , 2017 , 8, 2824-2832	4.9	30
126	Amphiphilic Ferrocene-Containing PEG Block Copolymers as Micellar Nanocarriers and Smart Surfactants. <i>Langmuir</i> , 2017 , 33, 272-279	4	19
125	Reversible Bioconjugation: Biodegradable Poly(phosphate)-Protein Conjugates. <i>Macromolecular Bioscience</i> , 2017 , 17,	5.5	21
124	Multifunctional Poly(phosphoester)s for Reversible Diels-Alder Postmodification To Tune the LCST in Water. <i>Macromolecules</i> , 2017 , 50, 7852-7862	5.5	27
123	Morphology-Controlled Synthesis of Lignin Nanocarriers for Drug Delivery and Carbon Materials. <i>ACS Biomaterials Science and Engineering</i> , 2017 , 3, 2375-2383	5.5	69
122	Reversible Self-Assembly of Degradable Polymersomes with Upper Critical Solution Temperature in Water. <i>Journal of the American Chemical Society</i> , 2017 , 139, 11064-11072	16.4	39
121	Expanding the scope of N-heterocyclic carbene-organocatalyzed ring-opening polymerization of N-tosyl aziridines using functional and non-activated amine initiators. <i>European Polymer Journal</i> , 2017 , 95, 746-755	5.2	25
120	Polyglycerol Surfmers and Surfactants for Direct and Inverse Miniemulsion. <i>Macromolecular Bioscience</i> , 2017 , 17, 1700070	5.5	6
119	Ruthenoceryl Glycidyl Ether: A Ruthenium-Containing Epoxide for Anionic Polymerization. <i>Organometallics</i> , 2017 , 36, 3023-3028	3.8	8
118	Polyphosphoesters 2017 , 191-241		1
117	Thermoresponsive coacervate formation of random poly(phosphonate) terpolymers. <i>European Polymer Journal</i> , 2017 , 95, 756-765	5.2	13
116	Functional Colloidal Stabilization. <i>Advanced Materials Interfaces</i> , 2017 , 4, 1600443	4.6	33
115	Site-Specific Polymer Attachment to HR2 Peptide Fusion Inhibitors against HIV-1 Decreases Binding Association Rates and Dissociation Rates Rather Than Binding Affinity. <i>Bioconjugate Chemistry</i> , 2017 , 28, 701-712	6.3	2

114	Coating nanoparticles with tunable surfactants facilitates control over the protein corona. <i>Biomaterials</i> , 2017 , 115, 1-8	15.6	82
113	Acid-Labile Surfactants Based on Poly(ethylene glycol), Carbon Dioxide and Propylene Oxide: Miniemulsion Polymerization and Degradation Studies. <i>Polymers</i> , 2017 , 9,	4.5	6
112	MPLA-coated hepatitis B virus surface antigen (HBsAg) nanocapsules induce vigorous T cell responses in cord blood derived human T cells. <i>Nanomedicine: Nanotechnology, Biology, and Medicine</i> , 2016 , 12, 2383-2394	6	7
111	Cyclohexyl-substituted poly(phosphonate)-copolymers with adjustable glass transition temperatures. <i>Polymer Chemistry</i> , 2016 , 7, 2934-2937	4.9	15
110	Poly(phosphoester) Colloids by Interfacial Polycondensation in Miniemulsion. <i>Macromolecular Chemistry and Physics</i> , 2016 , 217, 1941-1947	2.6	3
109	Degradable Polyphosphoester-Protein Conjugates: "PPEylation" of Proteins. <i>Biomacromolecules</i> , 2016 , 17, 3338-3346	6.9	37
108	Side-chain poly(phosphoramidate)s via acyclic diene metathesis polycondensation. <i>Polymer Chemistry</i> , 2016 , 7, 5004-5010	4.9	16
107	N-Ferrocenylsulfonyl-2-methylaziridine: the first ferrocene monomer for the anionic (co)polymerization of aziridines. <i>Polymer Chemistry</i> , 2016 , 7, 5501-5506	4.9	26
106	Poly(phosphorodiamidate)s by Olefin Metathesis Polymerization with Precise Degradation. <i>Chemistry - A European Journal</i> , 2016 , 22, 17329-17338	4.8	28
105	Fast ultrasound assisted synthesis of chitosan-based magnetite nanocomposites as a modified electrode sensor. <i>Carbohydrate Polymers</i> , 2016 , 151, 760-769	10.3	47
104	Acid-Labile Amphiphilic PEO-b-PPO-b-PEO Copolymers: Degradable Poloxamer Analogs. <i>Macromolecular Rapid Communications</i> , 2016 , 37, 775-80	4.8	14
103	Sequence-Controlled Polymers via Simultaneous Living Anionic Copolymerization of Competing Monomers. <i>Macromolecular Rapid Communications</i> , 2016 , 37, 833-9	4.8	40
102	Processing and adjusting the hydrophilicity of poly(oxymethylene) (co)polymers: nanoparticle preparation and film formation. <i>Polymer Chemistry</i> , 2016 , 7, 184-190	4.9	2
101	High biocompatibility and improved osteogenic potential of amorphous calcium carbonate/vaterite. <i>Journal of Materials Chemistry B</i> , 2016 , 4, 376-386	7.3	63
100	Investigation into the Relaxation Dynamics of Polymer-Protein Conjugates Reveals Surprising Role of Polymer Solvation on Inherent Protein Flexibility. <i>Biomacromolecules</i> , 2016 , 17, 141-7	6.9	23
99	Protein adsorption is required for stealth effect of poly(ethylene glycol)- and poly(phosphoester)-coated nanocarriers. <i>Nature Nanotechnology</i> , 2016 , 11, 372-7	28.7	741
98	Multihydroxy Polyamines by Living Anionic Polymerization of Aziridines. <i>ACS Macro Letters</i> , 2016 , 5, 195-198	4.8	39
97	Morphology and Thermal Properties of Precision Polymers: The Crystallization of Butyl Branched Polyethylene and Polyphosphoesters. <i>Macromolecules</i> , 2016 , 49, 1321-1330	5.5	35

96	Reactions and Polymerizations at the Liquid-Liquid Interface. <i>Chemical Reviews</i> , 2016 , 116, 2141-69	68.1	141
95	Polymerization of Ethylene Oxide, Propylene Oxide, and Other Alkylene Oxides: Synthesis, Novel Polymer Architectures, and Bioconjugation. <i>Chemical Reviews</i> , 2016 , 116, 2170-243	68.1	406
94	Stimulus-Responsive Release from Poly(ferrocenylsilane) Nanocontainers. <i>Macromolecules</i> , 2016 , 49, 105-109	5.5	13
93	Artificial cartilage bio-matrix formed of hyaluronic acid and Mg ²⁺ -polyphosphate. <i>European Cells and Materials</i> , 2016 , 32, 271-283	4.3	21
92	Stabilization of Inverse Miniemulsions by Silyl-Protected Homopolymers. <i>Polymers</i> , 2016 , 8,	4.5	3
91	The organocatalytic ring-opening polymerization of N-tosyl aziridines by an N-heterocyclic carbene. <i>Chemical Communications</i> , 2016 , 52, 9719-22	5.8	40
90	Binding matters: binding patterns control the degradation of phosphorus-containing polymers. <i>Green Materials</i> , 2016 , 4, 135-139	3.2	2
89	Competing and simultaneous click reactions at the interface and in solution. <i>RSC Advances</i> , 2016 , 6, 51327-51331	3.7	13
88	In-Chain Poly(phosphonate)s via Acyclic Diene Metathesis Polycondensation. <i>Macromolecules</i> , 2016 , 49, 3761-3768	5.5	27
87	Polymeric hepatitis C virus non-structural protein 5A nanocapsules induce intrahepatic antigen-specific immune responses. <i>Biomaterials</i> , 2016 , 108, 1-12	15.6	12
86	ALTMET Polymerization of Amino Acid-Based Monomers Targeting Controlled Drug Release. <i>Macromolecules</i> , 2016 , 49, 6723-6730	5.5	10
85	Interleukin-2 Functionalized Nanocapsules for T Cell-Based Immunotherapy. <i>ACS Nano</i> , 2016 , 10, 9216-9226	9.7	34
84	Water-Soluble Metallocene-Containing Polymers. <i>Macromolecular Rapid Communications</i> , 2016 , 37, 1482-1488	4.8	29
83	Aliphatic Polyethers: Classical Polymers for the 21st Century. <i>Macromolecular Rapid Communications</i> , 2015 , 36, 1147-65	4.8	58
82	Poly(phosphoester)s: A New Platform for Degradable Polymers. <i>Angewandte Chemie - International Edition</i> , 2015 , 54, 6098-108	16.4	159
81	Carbohydrate-Based Nanocarriers Exhibiting Specific Cell Targeting with Minimum Influence from the Protein Corona. <i>Angewandte Chemie - International Edition</i> , 2015 , 54, 7436-40	16.4	117
80	Multifunctional poly(phosphoester)s with two orthogonal protective groups. <i>RSC Advances</i> , 2015 , 5, 42881-42888	3.7	25
79	Vinyl ferrocenyl glycidyl ether: an unprotected orthogonal ferrocene monomer for anionic and radical polymerization. <i>Polymer Chemistry</i> , 2015 , 6, 3617-3624	4.9	23

78	Reactive poly(phosphoester)-telechelics. <i>Journal of Polymer Research</i> , 2015 , 22, 1	2.7	5
77	Water-soluble and redox-responsive hyperbranched polyether copolymers based on ferrocenyl glycidyl ether. <i>Polymer Chemistry</i> , 2015 , 6, 7112-7118	4.9	10
76	Carbohydrate nanocarriers in biomedical applications: functionalization and construction. <i>Chemical Society Reviews</i> , 2015 , 44, 8301-25	58.5	154
75	Poly(phosphonate)-mediated Horner-Wadsworth-Emmons reactions. <i>Polymer Chemistry</i> , 2015 , 6, 1192-1202	4.2	13
74	Living Anionic Polymerization of Functional Aziridines. <i>Macromolecular Symposia</i> , 2015 , 349, 51-56	0.8	21
73	Kohlenhydrat-basierte Nanocarrier mit spezifischem Zell-Targeting und minimalem Einfluss durch die Proteinkorona. <i>Angewandte Chemie</i> , 2015 , 127, 7544-7548	3.6	10
72	Sophorolipids: Expanding structural diversity by ring-opening cross-metathesis. <i>European Journal of Lipid Science and Technology</i> , 2015 , 117, 217-228	3	22
71	Polyphosphoester: eine neue Plattform für abbaubare Polymere. <i>Angewandte Chemie</i> , 2015 , 127, 6196-6207	3.8	10
70	A Library of Well-Defined and Water-Soluble Poly(alkyl phosphonate)s with Adjustable Hydrolysis. <i>Macromolecules</i> , 2015 , 48, 3853-3863	5.5	60
69	Triple-Stimuli-Responsive Ferrocene-Containing PEGs in Water and on the Surface. <i>ACS Applied Materials & Interfaces</i> , 2015 , 7, 26137-44	9.5	22
68	Biodegradable protein nanocontainers. <i>Biomacromolecules</i> , 2015 , 16, 815-21	6.9	36
67	Tailoring the stealth properties of biocompatible polysaccharide nanocontainers. <i>Biomaterials</i> , 2015 , 49, 125-34	15.6	43
66	Stabilization of Nanoparticles Synthesized by Miniemulsion Polymerization Using "Green" Amino-Acid Based Surfactants. <i>Macromolecular Symposia</i> , 2014 , 337, 9-17	0.8	4
65	Paclitaxel-loaded polyphosphate nanoparticles: a potential strategy for bone cancer treatment. <i>Journal of Materials Chemistry B</i> , 2014 , 2, 1298-1306	7.3	44
64	Hyperbranched unsaturated polyphosphates as a protective matrix for long-term photon upconversion in air. <i>Journal of the American Chemical Society</i> , 2014 , 136, 11057-64	16.4	101
63	Poly(phosphonate)s via Olefin Metathesis: Adjusting Hydrophobicity and Morphology. <i>Macromolecules</i> , 2014 , 47, 4884-4893	5.5	39
62	Hyperbranched poly(phosphoester)s as flame retardants for technical and high performance polymers. <i>Polymer Chemistry</i> , 2014 , 5, 7042-7053	4.9	68
61	Biodegradable lignin nanocontainers. <i>RSC Advances</i> , 2014 , 4, 11661-11663	3.7	130

60	A molecular "screw-clamp": accelerating click reactions in miniemulsions. <i>Chemical Communications</i> , 2014 , 50, 10495-8	5.8	11
59	Water-Soluble Poly(phosphonate)s via Living Ring-Opening Polymerization.. <i>ACS Macro Letters</i> , 2014 , 3, 244-248	6.6	81
58	Squaric acid mediated bioconjugation expanded to polymers prepared by ATRP. <i>Polymer Chemistry</i> , 2014 , 5, 4039	4.9	10
57	Combining oxyanionic polymerization and click-chemistry: a general strategy for the synthesis of polyether polyol macromonomers. <i>Polymer Chemistry</i> , 2014 , 5, 899-909	4.9	19
56	Ferrocene-Containing Multifunctional Polyethers: Monomer Sequence Monitoring via Quantitative ¹³ C NMR Spectroscopy in Bulk. <i>Macromolecules</i> , 2014 , 47, 2242-2249	5.5	33
55	Selective Interfacial Olefin Cross Metathesis for the Preparation of Hollow Nanocapsules. <i>ACS Macro Letters</i> , 2014 , 3, 40-43	6.6	27
54	Functional Group Distribution and Gradient Structure Resulting from the Living Anionic Copolymerization of Styrene and <i>n</i> -But-3-enyl Styrene.. <i>ACS Macro Letters</i> , 2014 , 3, 560-564	6.6	32
53	Nanoparticles from renewable polymers. <i>Frontiers in Chemistry</i> , 2014 , 2, 49	5	64
52	Poly(alkylidene chlorophosphate)s via Acyclic Diene Metathesis Polymerization: A General Platform for the Postpolymerization Modification of Poly(phosphoester)s. <i>Macromolecules</i> , 2014 , 47, 8506-8513	5.5	26
51	Aziridine termination of living anionic polymerization. <i>Macromolecular Rapid Communications</i> , 2014 , 35, 585-9	4.8	24
50	A metathesis route for BODIPY labeled polyolefins. <i>Organic Letters</i> , 2013 , 15, 3844-7	6.2	32
49	Be squared: expanding the horizon of squaric acid-mediated conjugations. <i>Chemical Society Reviews</i> , 2013 , 42, 8220-36	58.5	96
48	One-pot squaric acid diester mediated aqueous protein conjugation. <i>Chemical Communications</i> , 2013 , 49, 7815-7	5.8	27
47	Microstructure analysis of biocompatible phosphoester copolymers. <i>Polymer Chemistry</i> , 2013 , 4, 4469	4.9	42
46	Ferrocenyl Glycidyl Ether: A Versatile Ferrocene Monomer for Copolymerization with Ethylene Oxide to Water-Soluble, Thermoresponsive Copolymers. <i>Macromolecules</i> , 2013 , 46, 647-655	5.5	66
45	Unsaturated poly(phosphoester)s via ring-opening metathesis polymerization. <i>Polymer Chemistry</i> , 2013 , 4, 3800	4.9	65
44	Enlarging the Toolbox: Epoxide Termination of Polyferrocenylsilane (PFS) as a Key Step for the Synthesis of Amphiphilic PFS-Polyether Block Copolymers.. <i>ACS Macro Letters</i> , 2013 , 2, 313-316	6.6	24
43	From CO ₂ -Based Multifunctional Polycarbonates With a Controlled Number of Functional Groups to Graft Polymers. <i>Macromolecular Chemistry and Physics</i> , 2013 , 214, 892-901	2.6	39

42	Squaric acid mediated chemoselective PEGylation of proteins: reactivity of single-step-activated amino poly(ethylene glycol)s. <i>Chemistry - A European Journal</i> , 2012 , 18, 16828-35	4.8	23
41	Squaric acid mediated synthesis and biological activity of a library of linear and hyperbranched poly(glycerol)-protein conjugates. <i>Biomacromolecules</i> , 2012 , 13, 1161-71	6.9	58
40	Unsaturated Polyphosphoesters via Acyclic Diene Metathesis Polymerization. <i>Macromolecules</i> , 2012 , 45, 8511-8518	5.5	78
39	Functional, hyperbranched polyesters via baylisBillman polymerization. <i>Journal of Polymer Science Part A</i> , 2012 , 50, 25-34	2.5	7
38	Functional PEG-based polymers with reactive groups via anionic ROP of tailor-made epoxides. <i>Polymer Chemistry</i> , 2012 , 3, 1714	4.9	78
37	Arginine-specific protein modification using Exo-aldehyde functional polymers prepared by atom transfer radical polymerization. <i>Polymer Chemistry</i> , 2011 , 2, 1490	4.9	7
36	PEG-based Multifunctional Polyethers with Highly Reactive Vinyl-Ether Side Chains for Click-Type Functionalization. <i>Macromolecules</i> , 2011 , 44, 6326-6334	5.5	66
35	Polymers interfacing with biology. <i>Chimia</i> , 2011 , 65, 659-62	1.3	1
34	Asymmetric Micellization of Organometallic Polyether Block Copolymers. <i>ACS Symposium Series</i> , 2011 , 103-115	0.4	2
33	From an epoxide monomer toolkit to functional PEG copolymers with adjustable LCST behavior. <i>Macromolecular Rapid Communications</i> , 2011 , 32, 1930-4	4.8	36
32	Multifunktionelle Poly(ethylenglycole). <i>Angewandte Chemie</i> , 2011 , 123, 8136-8146	3.6	13
31	Multifunctional Poly(ethylene glycol)s. <i>Angewandte Chemie - International Edition</i> , 2011 , 50, 7988-97	16.4	150
30	Rapid Access to Polyfunctional Lipids with Complex Architecture via Oxyanionic Ring-Opening Polymerization. <i>Macromolecules</i> , 2011 , 44, 4648-4657	5.5	43
29	Linear/dendritic block copolymers: The state of the art and exciting perspectives. <i>Progress in Polymer Science</i> , 2011 , 36, 1-52	29.6	223
28	Hyperbranched polyglycerol-based lipids via oxyanionic polymerization: toward multifunctional stealth liposomes. <i>Biomacromolecules</i> , 2010 , 11, 568-74	6.9	67
27	Multihydroxyl-Functional Polystyrenes in Continuous Flow. <i>Macromolecules</i> , 2010 , 43, 5582-5588	5.5	39
26	Chiroptical Induction and Molecular Recognition in Optically Active Hyperbranched Polyethers with Inherently Chiral Benzophenone Core. <i>Macromolecules</i> , 2010 , 43, 9583-9587	5.5	8
25	Functional Poly(ethylene glycol)-PEG-Based Random Copolymers with 1,2-Diol Side Chains and Terminal Amino Functionality. <i>Macromolecules</i> , 2010 , 43, 8511-8518	5.5	56

24	Amino Functional Poly(ethylene glycol) Copolymers via Protected Amino Glycidol. <i>Macromolecules</i> , 2010 , 43, 2244-2251	5.5	79
23	Rapid Synthesis and MALDI-ToF Characterization of Poly(ethylene oxide) Multiarm Star Polymers. <i>Macromolecular Chemistry and Physics</i> , 2010 , 211, 35-44	2.6	12
22	β -Heterotelechelic Hyperbranched Polyethers Solubilize Carbon Nanotubes. <i>Macromolecular Chemistry and Physics</i> , 2010 , 211, 932-939	2.6	14
21	Hetero-Multifunctional Poly(ethylene glycol) Copolymers with Multiple Hydroxyl Groups and a Single Terminal Functionality. <i>Macromolecular Rapid Communications</i> , 2010 , 31, 258-64	4.8	52
20	Hyperbranched PEG by random copolymerization of ethylene oxide and glycidol. <i>Macromolecular Rapid Communications</i> , 2010 , 31, 1811-5	4.8	50
19	Electroactive linear-hyperbranched block copolymers based on linear poly(ferrocenylsilane)s and hyperbranched poly(carbosilane)s. <i>Chemistry - A European Journal</i> , 2009 , 15, 9068-77	4.8	62
18	Branched Versus Linear Polyisoprene: Flory-Huggins Interaction Parameters for their Solutions in Cyclohexane. <i>Macromolecular Chemistry and Physics</i> , 2009 , 210, 1433-1439	2.6	12
17	Polymere Janus-Partikel. <i>Angewandte Chemie</i> , 2009 , 121, 8564-8574	3.6	54
16	Polymeric janus particles. <i>Angewandte Chemie - International Edition</i> , 2009 , 48, 8412-21	16.4	199
15	Hyperbranched β -linear-hyperbranched ABA-type block copolymers based on poly(ethylene oxide) and polyglycerol. <i>Polymer International</i> , 2009 , 58, 989-995	3.3	40
14	Ferrocenyl-functionalized long chain branched polydienes. <i>Journal of Polymer Science Part A</i> , 2009 , 47, 2518-2529	2.5	12
13	Long-chain branched ROMP polymers. <i>Journal of Polymer Science Part A</i> , 2009 , 47, 6932-6940	2.5	16
12	Synthesis and noncovalent protein conjugation of linear-hyperbranched PEG-poly(glycerol) alpha,omega(n)-telechelics. <i>Journal of the American Chemical Society</i> , 2009 , 131, 7954-5	16.4	105
11	Hyperbranched Polyglycerols with Elevated Molecular Weights: A Facile Two-Step Synthesis Protocol Based on Polyglycerol Macroinitiators. <i>Macromolecules</i> , 2009 , 42, 3230-3236	5.5	107
10	Amphiphilic Linear-Hyperbranched Block Copolymers with Linear Poly(ethylene oxide) and Hyperbranched Poly(carbosilane) Block. <i>Macromolecules</i> , 2008 , 41, 9602-9611	5.5	44
9	Double-Hydrophilic Linear-Hyperbranched Block Copolymers Based on Poly(ethylene oxide) and Poly(glycerol). <i>Macromolecules</i> , 2008 , 41, 1184-1188	5.5	104
8	Synthesis and Characterization of Poly(glycerol glycerol) Block Copolymers. <i>Macromolecules</i> , 2008 , 41, 1909-1911	5.5	58
7	Janus micelles induced by olefin metathesis. <i>Journal of the American Chemical Society</i> , 2008 , 130, 5876-7	16.4	46

6	Branched and Functionalized Polybutadienes by a Facile Two-Step Synthesis. <i>Macromolecular Chemistry and Physics</i> , 2008 , 209, 675-684	2.6	31
5	Carbanions on Tap Living Anionic Polymerization in a Microstructured Reactor. <i>Macromolecular Chemistry and Physics</i> , 2008 , 209, 1106-1114	2.6	57
4	Automated Large-Scale Synthesis of Supramolecular Oligo(p-benzamide) Block Copolymers. <i>Macromolecules</i> , 2007 , 40, 7827-7833	5.5	18
3	Pencil Lead as a Matrix for MALDI-ToF Mass Spectrometry of Sensitive Functional Polymers. <i>Macromolecules</i> , 2007 , 40, 746-751	5.5	22
2	A Facile Two-Step Route to Branched Polyisoprenes via ABn-Macromonomers. <i>Macromolecular Rapid Communications</i> , 2007 , 28, 704-709	4.8	28
1	Dual-Targeted Nanoreactors and Prodrugs: Hydrogen Peroxide Triggers Oxidative Damage and Prodrug Activation for Synergistic Elimination of Cancer Cells. <i>Advanced Functional Materials</i> , 2007 , 17, 2200791	15.6	2