Yves Gnanou

List of Publications by Citations

188 papers	8,996 citations	52 h-index	87 g-index
191 ext. papers	9,704 ext. citations	6.1 avg, IF	6.13 L-index

#	Paper	IF	Citations
188	N-Heterocyclic carbenes (NHCs) as organocatalysts and structural components in metal-free polymer synthesis. *Chemical Society Reviews*, **2013**, 42, 2142-72	58.5	417
187	Kinetics and Mechanism of Controlled Free-Radical Polymerization of Styrene andn-Butyl Acrylate in the Presence of an Acyclic Phosphonylated Nitroxide. *Journal of the American Chemical Society*, **2000**, 122, 5929-5939	16.4	367
186	Water-soluble stimuli-responsive vesicles from peptide-based diblock copolymers. *Angewandte Chemie - International Edition*, **2002**, 41, 1339-43	16.4	352
185	Atom Transfer Radical Polymerization of Styrene Using a Novel Octafunctional Initiator: Synthesis of Well-Defined Polystyrene Stars. *Macromolecules*, **1998**, 31, 7218-7225	5.5	296
184	50th Anniversary Perspective: Polymers with Complex Architectures. *Macromolecules*, **2017**, 50, 1253-1290	5.5	225
183	Amphiphilic Stars and Dendrimer-Like Architectures Based on Poly(Ethylene Oxide) and Polystyrene. *Macromolecules*, **2000**, 33, 5418-5426	5.5	211
182	Acyclic Phosphonylated Nitroxides: A New Series of Counter-Radicals for Living/Controlled Free Radical Polymerization. *Macromolecules*, **2000**, 33, 1141-1147	5.5	177
181	Synthesis by RAFT and Ionic Responsiveness of Double Hydrophilic Block Copolymers Based on Ionic Liquid Monomer Units. *Macromolecules*, **2008**, 41, 6299-6308	5.5	172
180	Novel Amphiphilic Architectures by Ring-Opening Metathesis Polymerization of Macromonomers. *Macromolecules*, **1997**, 30, 4791-4798	5.5	167
179	Structure of polypeptide-based diblock copolymers in solution: stimuli-responsive vesicles and micelles. *Langmuir*, **2005**, 21, 4308-15	4	166
178	Metal-Free Alternating Copolymerization of CO2 with Epoxides: Fulfilling "Green" Synthesis and Activity. *Journal of the American Chemical Society*, **2016**, 138, 11117-20	16.4	150
177	Synthesis and Surface Properties of Amphiphilic Star-Shaped and Dendrimer-like Copolymers Based on Polystyrene Core and Poly(ethylene oxide) Corona. *Macromolecules*, **2003**, 36, 8253-8259	5.5	145
176	N-heterocyclic carbene-induced zwitterionic ring-opening polymerization of ethylene oxide and direct synthesis of alpha,omega-difunctionalized poly(ethylene oxide)s and poly(ethylene oxide)-b-poly(epsilon-caprolactone) block copolymers. *Journal of the American Chemical Society*, **2009**, 131, 8201-8	16.4	144
175	Synthesis of Water-Soluble Star-Block and Dendrimer-like Copolymers Based on Poly(ethylene oxide) and Poly(acrylic acid). *Macromolecules*, **2003**, 36, 3874-3881	5.5	141
174	Imidazol(in)ium hydrogen carbonates as a genuine source of N-heterocyclic carbenes (NHCs): applications to the facile preparation of NHC metal complexes and to NHC-organocatalyzed molecular and macromolecular syntheses. *Journal of the American Chemical Society*, **2012**, 134, 6776-84	16.4	138
173	Poly(N-heterocyclic-carbene)s and their CO2 Adducts as Recyclable Polymer-Supported Organocatalysts for Benzoin Condensation and Transesterification Reactions. *Macromolecules*, **2011**, 44, 1900-1908	5.5	125
172	Synthesis of Norbornenylpoly(ethylene oxide) Macromonomers and Their Ring-Opening Metathesis Polymerization. *Macromolecules*, **1996**, 29, 4459-4464	5.5	124

171	Rheological characterization of the gel point: a new interpretation. *Macromolecules*, **1991**, 24, 1321-1326	5.5	120
170	Toward an easy access to dendrimer-like poly(ethylene oxide)s. *Journal of the American Chemical Society*, **2005**, 127, 10956-66	16.4	119
169	Dendrimer-like PEO glycopolymers exhibit anti-inflammatory properties. *Journal of the American Chemical Society*, **2005**, 127, 10132-3	16.4	119
168	Harnessing the potential of N-heterocyclic carbenes for the rejuvenation of group-transfer polymerization of (meth)acrylics. *Angewandte Chemie - International Edition*, **2008**, 47, 5390-3	16.4	113
167	Group Transfer Polymerization of (Meth)acrylic Monomers Catalyzed by N-Heterocyclic Carbenes and Synthesis of All Acrylic Block Copolymers: Evidence for an Associative Mechanism. *Macromolecules*, **2009**, 42, 5996-6005	5.5	103
166	Toward an Easy Access to Asymmetric Stars and Miktoarm Stars by Atom Transfer Radical Polymerization. *Macromolecules*, **2002**, 35, 9001-9008	5.5	100
165	Scope of the Copper Halide/Bipyridyl System Associated with Calixarene-Based Multihalides for the Synthesis of Well-Defined Polystyrene and Poly(meth)acrylate Stars. *Macromolecules*, **2000**, 33, 7261-7274	5.5	100
164	pH responsiveness of dendrimer-like poly(ethylene oxide)s. *Journal of the American Chemical Society*, **2006**, 128, 11551-62	16.4	92
163	Polymeric Vesicles and Micelles Obtained by Self-Assembly of Ionic Liquid-Based Block Copolymers Triggered by Anion or Solvent Exchange. *Macromolecules*, **2009**, 42, 5167-5174	5.5	89
162	Metal-free and solvent-free access to alpha,omega-heterodifunctionalized poly(propylene oxide)s by N-heterocyclic carbene-induced ring opening polymerization. *Chemical Communications*, **2010**, 46, 3203-5	5.8	85
161	Synthesis of Dendrimer-Like Polystyrene by Atom Transfer Radical Polymerization and Investigation of Their Viscosity Behavior. *Macromolecules*, **2005**, 38, 3120-3128	5.5	85
160	Micelles and polymersomes obtained by self-assembly of dextran and polystyrene based block copolymers. *Biomacromolecules*, **2009**, 10, 32-40	6.9	84
159	Nanosized amorphous calcium carbonate stabilized by poly(ethylene oxide)-b-poly(acrylic acid) block copolymers. *Langmuir*, **2006**, 22, 1875-9	4	80
158	Effect of phenol and derivatives on atom transfer radical polymerization in the presence of air. *Journal of Polymer Science Part A*, **2004**, 42, 351-359	2.5	79
157	Controlled Radical Polymerization of N-Vinylpyrrolidone by Reversible Addition-Fragmentation Chain Transfer Process. *Macromolecular Symposia*, **2005**, 229, 8-17	0.8	78
156	Janus-type dendrimer-like poly(ethylene oxide)s. *Journal of the American Chemical Society*, **2008**, 130, 11662-76	16.4	77
155	Synthesis of Multifunctional Dithioesters Using Tetraphosphorus Decasulfide and Their Behavior as RAFT Agents. *Macromolecules*, **2004**, 37, 5513-5519	5.5	75
154	A "Catalyst Switch" Strategy for the Sequential Metal-Free Polymerization of Epoxides and Cyclic Esters/Carbonate. *Macromolecules*, **2014**, 47, 3814-3822	5.5	74

153	Synthesis and characterization of linear, hyperbranched, and dendrimer-like polymers constituted of the same repeating unit. *Chemistry - A European Journal*, **2001**, 7, 3095-105	4.8	74
152	Synthesis of star-shaped poly(ethylene oxide). *Die Makromolekulare Chemie*, **1988**, 189, 2885-2892		74
151	Using UCST Ionic Liquid as a Draw Solute in Forward Osmosis to Treat High-Salinity Water. *Environmental Science & Technology*, **2016**, 50, 1039-45	10.3	72
150	N-Heterocyclic Carbene-Organocatalyzed Ring-Opening Polymerization of Ethylene Oxide in the Presence of Alcohols or Trimethylsilyl Nucleophiles as Chain Moderators for the Synthesis of Heterodifunctionalized Poly(ethylene oxide)s. *Macromolecules*, **2010**, 43, 2814-2823	5.5	72
149	Dendrimer-like polymers: a new class of structurally precise dendrimers with macromolecular generations. *New Journal of Chemistry*, **2007**, 31, 1097	3.6	67
148	Synthesis of hybrid dendrimer-star polymers by the RAFT process. *Chemical Communications*, **2004**, 2110-11	5.8	63
147	Phosphazene-Promoted Metal-Free Ring-Opening Polymerization of Ethylene Oxide Initiated by Carboxylic Acid. *Macromolecules*, **2014**, 47, 1693-1698	5.5	62
146	From star-shaped to dendritic poly(ethylene oxide)s: Toward increasingly branched architectures by anionic polymerization. *Macromolecular Symposia*, **1995**, 95, 137-150	0.8	62
145	Molecular structure and elastic behavior of poly(ethylene oxide) networks swollen to equilibrium. *Macromolecules*, **1987**, 20, 1662-1671	5.5	62
144	Sequential polymerization of ethylene oxide, caprolactone and L-lactide: a one-pot metal-free route to tri- and pentablock terpolymers. *Polymer Chemistry*, **2014**, 5, 3750-3753	4.9	61
143	Expanding the Scope of Group Transfer Polymerization UsingN-Heterocyclic Carbenes as Catalysts: Application to Miscellaneous (Meth)acrylic Monomers and Kinetic Investigations. *Macromolecules*, **2010**, 43, 8853-8861	5.5	58
142	Polymerization of ethylene oxide with a calixarene-based precursor: Synthesis of eight-arm poly(ethylene oxide) stars by the core-first methodology. *Journal of Polymer Science Part A*, **2003**, 41, 1669-1676	2.5	58
141	Hydrophilic polyurethane networks based on poly(ethylene oxide): synthesis, characterization, and properties. Potential applications as biomaterials. *Macromolecules*, **1984**, 17, 945-952	5.5	58
140	No matter the order of monomer addition for the synthesis of well-defined block copolymers by sequential group transfer polymerization using N-heterocyclic carbenes as catalysts. *Polymer Chemistry*, **2011**, 2, 1706	4.9	54
139	Synthesis and Investigation of Surface Properties of Dendrimer-like Copolymers Based on Polystyrene and Poly(tert-butylacrylate). *Macromolecules*, **2005**, 38, 5459-5467	5.5	54
138	Controlled polymerizations as tools for the design of star-like and dendrimer-like polymers. *Polymer International*, **2006**, 55, 1138-1145	3.3	54
137	Monodisperse Polystyrene Latex Particles Functionalized by the Macromonomer Technique. *Macromolecules*, **1998**, 31, 2087-2097	5.5	53
136	Radical polymerization of vinyl acetate with bis(tetramethylheptadionato)cobalt(II): coexistence of three different mechanisms. *Chemistry - A European Journal*, **2009**, 15, 4874-85	4.8	51

135	Organocatalysis by hydrogen-bonding: a new approach to controlled/living polymerization of □-amino acid N-carboxyanhydrides. *Polymer Chemistry*, **2015**, 6, 6193-6201	4.9	50
134	Combination of an anionic terminator multifunctional initiator and divergent carbanionic polymerization: application to the synthesis of dendrimer-like polymers and of asymmetric and miktoarm stars. *Journal of the American Chemical Society*, **2008**, 130, 1350-61	16.4	50
133	Reaction of cyclic tetrathiophosphates with carboxylic acids as a means to generate dithioesters and control radical polymerization by RAFT. *Angewandte Chemie - International Edition*, **2003**, 42, 2869-72	16.4	50
132	Synthesis and Characterization of Poly(styrene-b-n-butyl acrylate-b-styrene) Triblock Copolymers Using a Dialkoxyamine as Initiator. *Macromolecules*, **2002**, 35, 3844-3848	5.5	49
131	Novel amphiphilic branched copolymers based on polystyrene and poly(ethylene oxide). *Macromolecular Chemistry and Physics*, **1998**, 199, 2501-2510	2.6	48
130	Fast and living ring-opening polymerization of □-amino acid N-carboxyanhydrides triggered by an "alliance" of primary and secondary amines at room temperature. *Biomacromolecules*, **2015**, 16, 1352-7	6.9	44
129	AFM study of micelle chaining in surface films of polystyrene-block-poly(ethylene oxide) stars at the air/water interface. *Langmuir*, **2005**, 21, 3424-31	4	44
128	Latex Particles by Miniemulsion Ring-Opening Metathesis Polymerization. *Macromolecules*, **2005**, 38, 7977-7982	5.5	44
127	From competition to cooperation: a highly efficient strategy towards well-defined (co)polypeptides. *Chemical Communications*, **2015**, 51, 3663-6	5.8	43
126	N-Heterocyclic carbene-catalysed synthesis of polyurethanes. *Polymer Chemistry*, **2012**, 3, 605	4.9	43
125	Aggregation and Surface Morphology of a Poly(ethylene oxide)-block-polystyrene Three-Arm Star Polymer at the Air/Water Interface Studied by AFM. *Macromolecules*, **2002**, 35, 6483-6485	5.5	43
124	Step-Growth Polymerization of Terephthaldehyde Catalyzed by N-Heterocyclic Carbenes. *Macromolecules*, **2009**, 42, 4932-4936	5.5	42
123	Design of PEO-based ruthenium carbene for aqueous metathesis polymerization. Synthesis by the □acromonomer method□and application in the miniemulsion metathesis polymerization of norbornene. *Journal of Polymer Science Part A*, **2006**, 44, 2784-2793	2.5	42
122	Association of Adhesive Spheres Formed by Hydrophobically End-Capped PEO. 2. Influence of the Alkyl End-Group Length and the Chain Backbone Architecture. *Macromolecules*, **2003**, 36, 1341-1348	5.5	42
121	Dispersion Ring-Opening Metathesis Polymerization of Norbornene Using PEO-Based Stabilizers. *Macromolecules*, **2002**, 35, 9262-9269	5.5	42
120	Stars and dendrimer-like architectures by the divergent method using controlled radical polymerization. *Macromolecular Symposia*, **2001**, 174, 333-341	0.8	42
119	Star Block Copolymers and Hexafullerene Stars via Derivatization of Star-Shaped Polystyrenes. *Macromolecules*, **1999**, 32, 1043-1054	5.5	41
118	Synthesis of Stars and Starlike Block Copolymers from a Trialkoxyamine Used as Initiator. *Macromolecules*, **2002**, 35, 2481-2486	5.5	40

117	Synthesis of norbornenyl polystyrene macromonomers and their ring-opening metathesis polymerization. *Macromolecular Rapid Communications*, **1996**, 17, 137-142	4.8	39
116	Newly Designed Star-Shaped Polystyrene: Synthesis and Characterization. *Macromolecules*, **1998**, 31, 6748-6755	5.5	38
115	Polystyrene-b-poly(tert-butyl acrylate) and polystyrene-b-poly(acrylic acid) dendrimer-like copolymers: two-dimensional self-assembly at the air-water interface. *Langmuir*, **2007**, 23, 2531-8	4	38
114	Synthesis of functionalized multiarm poly(ethylene oxide) stars. *Polymer*, **2003**, 44, 5067-5074	3.9	38
113	Phosphazene-promoted anionic polymerization. *Polimery*, **2014**, 59, 49-59	3.4	38
112	Core Cross-Linked Multiarm Star Polymers with Aggregation-Induced Emission and Temperature Responsive Fluorescence Characteristics. *Macromolecules*, **2017**, 50, 4217-4226	5.5	37
111	Ring-opening polymerization of pentadecalactone catalyzed by phosphazene superbases. *Polymer Chemistry*, **2017**, 8, 511-515	4.9	36
110	Well-Defined Polyethylene-Based Random, Block, and Bilayered Molecular Cobrushes. *Macromolecules*, **2015**, 48, 3556-3562	5.5	36
109	In situ mid-IR and UV visible spectroscopies applied to the determination of kinetic parameters in the anionic copolymerization of styrene and isoprene. *Polymer*, **2009**, 50, 1351-1357	3.9	36
108	Polystyrene-block-poly(ethylene oxide) stars as surface films at the air/water interface. *Langmuir*, **2005**, 21, 7380-9	4	35
107	Interfacial Behavior of Anionically Synthesized Amphiphilic Star Block Copolymers Based on Polybutadiene and Poly(ethylene oxide) at the Air/Water Interface. *Macromolecules*, **2005**, 38, 7754-7767	5.5	35
106	Well-defined polyethylene molecular brushes by polyhomologation and ring opening metathesis polymerization. *Polymer Chemistry*, **2014**, 5, 6431-6434	4.9	34
105	Fast Access to Dendrimer-like Poly(ethylene oxide)s through Anionic Ring-Opening Polymerization of Ethylene Oxide and Use of Nonprotected Glycidol as Branching Agent. *Macromolecules*, **2009**, 42, 7292-7298	5.5	34
104	Bicompartmentalized Polymer Particles by Tandem ROMP and ATRP in Miniemulsion. *Macromolecules*, **2008**, 41, 3015-3022	5.5	31
103	New insight into the mechanism of the reaction between unsaturated carbonyl compounds and triethylborane (Brown reaction). *Tetrahedron Letters*, **2000**, 41, 1195-1198	2	31
102	Novel Gemini-Type Reactive Dispersants Based on PS/PEO Block Copolymers: Synthesis and Application. *Macromolecules*, **2001**, 34, 4451-4458	5.5	31
101	Carboxylate Salts as Ideal Initiators for the Metal-Free Copolymerization of CO2 with Epoxides: Synthesis of Well-Defined Polycarbonates Diols and Polyols. *Macromolecules*, **2019**, 52, 2431-2438	5.5	30
100	Theoretical Mechanistic Investigation into Metal-Free Alternating Copolymerization of CO2 and Epoxides: The Key Role of Triethylborane. *Macromolecules*, **2018**, 51, 5600-5607	5.5	30

99	Poly(urethane‐carbonate)s from Carbon Dioxide. *Macromolecules*, **2017**, 50, 2320-2328	5.5	29
98	One-pot synthesis of linear- and three-arm star-tetrablock quarterpolymers via sequential metal-free ring-opening polymerization using a "catalyst switch" strategy. *Journal of Polymer Science Part A*, **2015**, 53, 304-312	2.5	29
97	Anionic polymerization and polyhomologation: an ideal combination to synthesize polyethylene-based block copolymers. *Chemical Communications*, **2013**, 49, 8952-4	5.8	28
96	Block Copolymers of Macrolactones/Small Lactones by a "Catalyst-Switch" Organocatalytic Strategy. Thermal Properties and Phase Behavior. *Macromolecules*, **2018**, 51, 2428-2436	5.5	27
95	Hybrid Polymer Particles by Tandem Ring-Opening Metathesis and Atom Transfer Radical Polymerizations in Aqueous Miniemulsion. *Macromolecules*, **2006**, 39, 5589-5591	5.5	27
94	1,4-Polybutadiene-Based Particles Prepared by Aqueous Suspension Ring-Opening Metathesis Polymerization. *Macromolecules*, **2004**, 37, 7619-7627	5.5	27
93	Synthesis of latex particles by ring-opening metathesis polymerization. *Polymer*, **2005**, 46, 1067-1075	3.9	27
92	Anionic polymerization of lactams in the presence of metal dialkoxyaluminum hydrides: presentation of a new mechanism. *Macromolecules*, **1992**, 25, 2004-2016	5.5	27
91	Synthesis and Characterization of C60 End-Capped Poly(ethylene oxide) Stars. *Macromolecules*, **1998**, 31, 6030-6033	5.5	26
90	Direct access to poly(glycidyl azide) and its copolymers through anionic (co-)polymerization of glycidyl azide. *Nature Communications*, **2019**, 10, 293	17.4	26
89	Two-dimensional polymeric nanomaterials through cross-linking of polybutadiene-b-poly(ethylene oxide) monolayers at the air/water interface. *Langmuir*, **2007**, 23, 649-58	4	25
88	Polymacromonomers: Dynamics of Dilute and Nondilute Solutions. *Macromolecules*, **2005**, 38, 2400-2409	5.5	25
87	Cs2CO3-promoted polycondensation of CO2 with diols and dihalides for the synthesis of miscellaneous polycarbonates. *Polymer Chemistry*, **2016**, 7, 4944-4952	4.9	25
86	Sequential functionalization of janus-type dendrimer-like poly(ethylene oxide)s with camptothecin and folic acid. *Journal of Polymer Science Part A*, **2011**, 49, 2839-2849	2.5	23
85	Monomodal Ultrahigh-Molar-Mass Polycarbonate Homopolymers and Diblock Copolymers by Anionic Copolymerization of Epoxides with CO2. *ACS Macro Letters*, **2019**, 8, 1594-1598	6.6	23
84	Fast and Complete Neutralization of Thiocarbonylthio Compounds Using Trialkylborane and Oxygen: Application to Their Removal from RAFT-Synthesized Polymers. *ACS Macro Letters*, **2019**, 8, 664-669	6.6	22
83	Polyhomologation based on in situ generated boron-thexyl-silaboracyclic initiating sites: a novel strategy towards the synthesis of polyethylene-based complex architectures. *Chemical Communications*, **2015**, 51, 9936-8	5.8	22
82	Polymethylene-based copolymers by polyhomologation or by its combination with controlled/living and living polymerizations. *Macromolecular Rapid Communications*, **2014**, 35, 378-90	4.8	22

81	Bouquet-type dendrimerlike poly(ethylene oxide)s with a focal aldehyde and peripheral hydroxyls. *Biomacromolecules*, **2007**, 8, 2374-8	6.9	22
80	Dispersion Polymerization of Styrene in Ethanol/Water Mixture Using Polystyrene-b-poly(ethylene oxide) Macromonomers as Stabilizers. *Macromolecules*, **2002**, 35, 2467-2473	5.5	22
79	Synthesis and characterization of block copolymers containing poly(tert.butyl acrylate) blocks. *Polymer*, **1991**, 32, 2278-2282	3.9	22
78	Self-assembly of poly(ionic liquid) (PIL)-based amphiphilic homopolymers into vesicles and supramolecular structures with dyes and silver nanoparticles. *Polymer Chemistry*, **2017**, 8, 3497-3503	4.9	21
77	Lithium-Assisted Copolymerization of CO2/Cyclohexene Oxide: A Novel and Straightforward Route to Polycarbonates and Related Block Copolymers. *Macromolecules*, **2016**, 49, 2484-2492	5.5	21
76	MALDI-TOF Analysis of Dendrimer-like Poly(ethylene oxide)s. *Macromolecules*, **2005**, 38, 10609-10613	5.5	21
75	Versatility of Boron-Mediated Coupling Reaction of Oxetanes and Epoxides with CO2: Selective Synthesis of Cyclic Carbonates or Linear Polycarbonates. *ACS Sustainable Chemistry and Engineering*, **2020**, 8, 13056-13063	8.3	21
74	Degradable poly(ethylene oxide) through metal-free copolymerization of ethylene oxide with L-lactide. *Polymer Chemistry*, **2019**, 10, 3764-3771	4.9	20
73	SAXS from Four-Arm Polyelectrolyte Stars in Semi-Dilute Solutions. *Macromolecular Chemistry and Physics*, **2003**, 204, 89-97	2.6	20
72	Synthesis of acid-sensitive latices by ring-opening metathesis polymerization. *Journal of Polymer Science Part A*, **2005**, 43, 217-229	2.5	20
71	Polyurethanes from Direct Organocatalytic Copolymerization of p-Tosyl Isocyanate with Epoxides. *Angewandte Chemie - International Edition*, **2021**, 60, 1593-1598	16.4	19
70	Dendritic carrier based on PEG: design and degradation of acid-sensitive dendrimer-like poly(ethylene oxide)s. *Macromolecular Rapid Communications*, **2011**, 32, 1722-8	4.8	18
69	Synthesis of poly(t-butyl acrylate) macromonomers. *Polymer*, **1990**, 31, 967-970	3.9	18
68	Synthesis and characterization of high molecular weight poly(tert.butyl acrylate). *Polymer Bulletin*, **1990**, 24, 39-43	2.4	18
67	Triethylborane-Assisted Synthesis of Random and Block Poly(ester-carbonate)s through One-Pot Terpolymerization of Epoxides, CO2, and Cyclic Anhydrides. *Macromolecules*, **2021**, 54, 2711-2719	5.5	18
66	Hydrophobic, Hydrophilic, and Amphiphilic Polyglycocarbonates with Linear and Macrocyclic Architectures from Bicyclic Glycocarbonates Derived from CO2 and Glucoside. *Macromolecules*, **2017**, 50, 1362-1370	5.5	17
65	Poly(vinylidene fluoride)-based complex macromolecular architectures: From synthesis to properties and applications. *Progress in Polymer Science*, **2020**, 104, 101231	29.6	17
64	Monodispersed polystyrene latex particles functionalized by the macromonomer technique. II. Application in immunodiagnosis. *Polymers for Advanced Technologies*, **2001**, 12, 494-499	3.2	17

63	All-Polycarbonate Thermoplastic Elastomers Based on Triblock Copolymers Derived from Triethylborane-Mediated Sequential Copolymerization of CO with Various Epoxides. *Macromolecules*, **2020**, 53, 5297-5307	5.5	16
62	Well-defined (co)polypeptides bearing pendant alkyne groups. *Polymer Chemistry*, **2016**, 7, 3487-3491	4.9	16
61	High performance poly(styrene-b-diene-b-styrene) triblock copolymers from a hydrocarbon-soluble and additive-free dicarbanionic initiator. *Journal of the American Chemical Society*, **2006**, 128, 8158-9	16.4	16
60	Synthesis of polybutadiene-based particles via dispersion ring-opening metathesis polymerization. *Journal of Polymer Science Part A*, **2004**, 42, 1154-1163	2.5	16
59	Poly(vinylidene fluoride)/Polymethylene-Based Block Copolymers and Terpolymers. *Macromolecules*, **2019**, 52, 1976-1984	5.5	16
58	Synthesis of □and □horbornenyl-polybutadiene macromonomers and their ring-opening metathesis polymerization. *Macromolecular Chemistry and Physics*, **1998**, 199, 1405-1412	2.6	16
57	Osmotic Heat Engine Using Thermally Responsive Ionic Liquids. *Environmental Science & Technology*, **2017**, 51, 9403-9409	10.3	15
56	Preparation of a Polyethylene Latex by Catalytic Hydrogenation of a Polybuta-1,4-diene-Based Dispersion. *Macromolecular Rapid Communications*, **2005**, 26, 1711-1715	4.8	15
55	Triblock copolymers based on styrene and n-butyl acrylate by nitroxide-mediated radical polymerization: problems and solutions. *Macromolecular Symposia*, **2001**, 165, 43-54	0.8	15
54	Synthesis and Characterization of Diaminodithio- and Aminotrithiophosphoric Acid Esters. *Phosphorus, Sulfur and Silicon and the Related Elements*, **2007**, 182, 1233-1244	1	14
53	Amphiphilic block copolymers using miscellaneous □Functional poly(ethylene oxide)'s as transfer agent. *Macromolecular Chemistry and Physics*, **2000**, 201, 1833-1839	2.6	14
52	Well-defined 4-arm stars with hydroxy-terminated polyethylene, polyethylene-b-polycaprolactone and polyethylene-b-(polymethyl methacrylate)2 arms. *Polymer Chemistry*, **2016**, 7, 5507-5511	4.9	13
51	Cyanoxyl-mediated free-radical polymerization of acrylic acid: Its scope and limitations. *Journal of Polymer Science Part A*, **2005**, 43, 519-533	2.5	13
50	New insights into the mechanism of 1,2-bis(trimethyl-silyloxy)-tetraphenylethane-induced free radical polymerization: application to the synthesis of block and graft copolymers. *Macromolecular Chemistry and Physics*, **2000**, 201, 74-83	2.6	12
49	Synthesis of complex polymeric architectures using multilithiated carbanionic initiators□omparison with other approaches. *Progress in Polymer Science*, **2013**, 38, 30-62	29.6	11
48	Cross-linking of polybutadiene at the air/water interface: toward an easy access to two-dimensional polymeric materials. *Journal of Colloid and Interface Science*, **2007**, 311, 315-21	9.3	11
47	Synthesis of polyglycocarbonates through polycondensation of glucopyranosides with CO2. *Polymer Chemistry*, **2017**, 8, 2640-2646	4.9	10
46	CO2 as versatile carbonation agent of glycosides: Synthesis of 5- and 6-membered cyclic glycocarbonates and investigation of their ring-opening. *Journal of CO2 Utilization*, **2018**, 24, 564-571	7.6	10

45	Synthesis and Self-Assembly of Well-Defined Star and Tadpole Homo-/Co-/Terpolymers. *Macromolecules*, **2019**, 52, 5583-5589	5.5	10
44	Fractionation of Poly(ethylene oxide) Star Samples by Supercritical Fluids. *Polymer Journal*, **1997**, 29, 910-913	2.7	10
43	Comparative behavior of polybutadiene and polynorbornene-based latices prepared by dispersion ring-opening metathesis polymerization with a poly(ethylene oxide) macromonomer. *Journal of Polymer Science Part A*, **2004**, 42, 2705-2716	2.5	10
42	Recycling a Borate Complex for Synthesis of Polycarbonate Polyols: Towards an Environmentally Friendly and Cost-Effective Process. *ChemSusChem*, **2020**, 13, 5080-5087	8.3	10
41	Polyethylene-Based Tadpole Copolymers. *Macromolecular Chemistry and Physics*, **2017**, 218, 1600568	2.6	9
40	Design and use of macromonomers as steric stabilizers for the synthesis of novel functional particles in dispersed media. *Polymer International*, **2006**, 55, 1146-1154	3.3	9
39	Free-Radical Polymerization of Styrene in CO2 /Ethanol Mixed Supercritical Fluid. *Macromolecular Chemistry and Physics*, **2001**, 202, 2857-2863	2.6	9
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