Transition metal-catalyzed living radical polymerization: toward perfection in catalysis and precision polymer synthesis

DOI: 10.1021/cr900234b
Chemical Reviews, 2009, 109, 4963-5050.

#	Paper	IF	Citations
1178	Reactivity Consequences of Steric Reduction in Cyclopentadienyl Chromium Diketiminate Complexes. **2009**, 28, 6798-6806		22
1177	Stereospecific living radical polymerization: dual control of chain length and tacticity for precision polymer synthesis. *Chemical Reviews*, **2009**, 109, 5120-56	68.1	229
1176	Synthesis of multicentered polyimide initiators for the preparation of regular graft copolymers via controlled radical polymerization. **2010**, 52, 589-599		27
1175	Reducing ATRP Catalyst Concentration in Batch, Semibatch and Continuous Reactors. *Macromolecular Reaction Engineering*, **2010**, 4, 369-380	1.5	29
1174	Controlled Radical Polymerization: Industrial Stakes, Obstacles and Achievements. *Macromolecular Reaction Engineering*, **2010**, 4, 165-179	1.5	201
1173	Recent progress of catalytic polymerization for controlling polymer topology. **2010**, 5, 1058-70		59
1172	Sequence-controlled polymerizations: the next Holy Grail in polymer science?. *Polymer Chemistry*, **2010**, 1, 55	4.9	348
1171	Recent advances in the design of bioconjugates from controlled/living radical polymerization. *Polymer Chemistry*, **2010**, 1, 563	4.9	200
1170	The formulation of aptamer-coated paclitaxel-polylactide nanoconjugates and their targeting to cancer cells. **2010**, 31, 3043-53		111
1169	Activators generated electron transfer for atom transfer radical polymerization for immunosensing. **2010**, 26, 970-5		20
1168	ChemInform Abstract: Transition Metal-Catalyzed Living Radical Polymerization: Toward Perfection in Catalysis and Precision Polymer Synthesis. **2010**, 41, no-no		
1167	Polyvinylketone durch kontrollierte Borgruppentransferpolymerisation (BGTP). *Angewandte Chemie*, **2010**, 122, 3137-3141	3.6	6
1166	Poly(vinyl ketone)s by controlled boron group transfer polymerization (BGTP). *Angewandte Chemie - International Edition*, **2010**, 49, 3073-6	16.4	15
1165	Organometallic-Mediated Radical Polymerization: Developing Well-Defined Complexes for Reversible Transition Metal-Alkyl Bond Homolysis. **2010**, 211, 10-16		45
1164	Contemporary Mass Spectrometry and the Analysis of Synthetic Polymers: Trends, Techniques and Untapped Potential. **2010**, 211, 1507-1529		40
1163	Ultra rapid approaches to mild macromolecular conjugation. **2010**, 31, 1247-66		80
1162	Transition metal catalysts for controlled radical polymerization. *Progress in Polymer Science*, **2010**, 35, 959-1021	29.6	421

1161	Synthesis of water-soluble homo- and block-copolymers by RAFT polymerization under irradiation in aqueous media. **2010**, 51, 4319-4328		39
1160	Synthesis of basic molecular brushes: ATRP of 4-vinylpyridine in organic media. *European Polymer Journal*, **2010**, 46, 2333-2340	5.2	17
1159	Thermoregulated phase-transfer catalysis via PEG-armed Ru(II)-bearing microgel core star polymers: Efficient and reusable Ru(II) catalysts for aqueous transfer hydrogenation of ketones. **2010**, 48, 373-379		71
1158	Metal-free synthesis of responsive polymers: Cloud point tuning by controlled click reaction. **2010**, 48, 1278-1286		64
1157	Multiarm star triblock terpolymers via sequential double click reactions. **2010**, 48, 1557-1564		45
1156	SET-LRP of methyl methacrylate initiated with CCl4 in the presence and absence of air. **2010**, 48, 2243-2250		117
1155	One-pot synthesis of well-defined multiblock polymer: Combination of ATRP and RAFT polymerization involving cyclic trithiocarbonate. **2010**, 48, 2425-2429		13
1154	Immortal SET LRP mediated by Cu(0) wire. **2010**, 48, 2716-2721		89
1153	Miktoarm star copolymers via combination of RAFT arm-first technique and aldehyde aminooxy click reaction. **2010**, 48, 3323-3330		29
1152	Thermo-responsive fluorescent micelles from amphiphilic A3B miktoarm star copolymers prepared via a combination of SET-LRP and RAFT polymerization. **2010**, 48, 4268-4278		38
1151	Multiarm star polymers with POSS at the periphery. **2010**, 48, 4835-4841		13
1150	Multiarm star polymers with peripheral dendritic PMMA arms through Diels Alder click reaction. **2010**, 48, 4842-4846		21
1149	Copolymerization of methacrylic acid with methyl methacrylate by SET-LRP. **2010**, 48, 4884-4888		69
1148	Set-LRP of MMA in acetic acid. **2010**, 48, 4889-4893		72
1147	Cyclic homo and block copolymers through sequential double click reactions. **2010**, 48, 5083-5091		66
1146	Synthesis of well-defined polymer brushes on the surface of zinc antimonate nanoparticles through surface-initiated atom transfer radical polymerization. **2010**, 48, 5092-5099		10
1145	Preparation of miktoarm star-block copolymers PSn-b-PVAc4-n via combination of ATRP and RAFT polymerization. **2010**, 48, 5180-5188		8
1144	Electroluminescent block copolymers containing oxadiazole and thiophene via ATRP. **2010**, 48, 5670-5678		4

1143	Novel superhydrophobic silica/poly(siloxane-fluoroacrylate) hybrid nanoparticles prepared via two-step surface-initiated ATRP: Synthesis, characterization, and wettability. **2010**, 48, 5570-5580		28
1142	Kinetic analysis of surface-initiated SET-LRP of poly(N-isopropylacrylamide). **2010**, 48, 5842-5847		24
1141	Graft copolymers via ROMP and Diels–Alder click reaction strategy. **2010**, 48, 5982-5991		38
1140	Hybrid micro-/nanogels for optical sensing and intracellular imaging. **2010**, 1,		53
1139	Glycopolymer Decoration of Gold Nanoparticles Using a LbL Approach. *Macromolecules*, **2010**, 43, 3775-3784	5.5	66
1138	Iron-Mediated AGET ATRP of Styrene in the Presence of Catalytic Amounts of Base. *Macromolecules*, **2010**, 43, 9283-9290	5.5	72
1137	An easy way to the preparation of multi-miktoarm star block copolymers via sequential double click reactions. *Polymer Chemistry*, **2010**, 1, 621	4.9	34
1136	Quantitative structure–reactivity modeling of copper-catalyzed atom transfer radical polymerization. *Polymer Chemistry*, **2010**, 1, 922	4.9	15
1135	Assessment of SET-LRP in DMSO using online monitoring and Rapid GPC. *Polymer Chemistry*, **2010**, 1, 1086	4.9	80
1134	Chemistry, chances and limitations of the radical ring-opening polymerization of cyclic ketene acetals for the synthesis of degradable polyesters. *Polymer Chemistry*, **2010**, 1, 953	4.9	141
1133	Free radical polymerization of alkyl methacrylates with N,N-dimethylanilinium p-toluenesulfonate at above ambient temperature: a quasi-living system. *Polymer Chemistry*, **2010**, 1, 1689	4.9	1
1132	Clickable initiators, monomers and polymers in controlled radical polymerizations – a prospective combination in polymer science. *Polymer Chemistry*, **2010**, 1, 1560	4.9	209
1131	Synthesis of silica-polymer hybrids by combination of RAFT polymerization and azide-alkyne cycloaddition "click" reactions. *Polymer Chemistry*, **2010**, 1, 1615	4.9	50
1130	Ethanol-Mediated Living Radical Homo- and Copolymerizations with Cp*-Ruthenium Catalysts: Active, Robust, and Universal for Functionalized Methacrylates. *Macromolecules*, **2010**, 43, 5595-5601	5.5	40
1129	In Situ and Time-Resolved Small-Angle Neutron Scattering Observation of Star Polymer Formation via Arm-Linking Reaction in Ruthenium-Catalyzed Living Radical Polymerization(1). *Macromolecules*, **2010**, 43, 8218-8232	5.5	43
1128	Thermodynamic Properties of Copper Complexes Used as Catalysts in Atom Transfer Radical Polymerization. *Macromolecules*, **2010**, 43, 9257-9267	5.5	115
1127	Controlling Polymer Topology by Atom Transfer Radical Self-Condensing Vinyl Polymerization of p-(2-Bromoisobutyloylmethyl)styrene. *Macromolecules*, **2010**, 43, 8790-8798	5.5	35
1126	Phenols and Carbon Compounds as Efficient Organic Catalysts for Reversible Chain Transfer Catalyzed Living Radical Polymerization (RTCP). *Macromolecules*, **2010**, 43, 7971-7978	5.5	40

1125	Thermally Responsive P(M(EO)2MA-co-OEOMA) Copolymers via AGET ATRP in Miniemulsion. *Macromolecules*, **2010**, 43, 4623-4628	5.5	72
1124	End-Functionalization with Alcohols in Metal-Catalyzed Living Radical Polymerization through Umpolung of Growing Carbon□Halogen Bond. *Macromolecules*, **2010**, 43, 8910-8916	5.5	10
1123	Chromium-Catalyzed Radical Cyclization of Bromo and Chloro Acetals. **2010**, 29, 6639-6641		18
1122	Effects of polymer molecular weight on the size, activity, and stability of PEG-functionalized trypsin. *Biomacromolecules*, **2010**, 11, 3688-92	6.9	35
1121	Thermocurable hyperbranched polystyrenes for ultrathin polymer dielectrics. **2010**, 2, 2475-80		8
1120	Metal-catalyzed simultaneous chain- and step-growth radical polymerization: marriage of vinyl polymers and polyesters. **2010**, 132, 7498-507		55
1119	Template-assisted selective radical addition toward sequence-regulated polymerization: lariat capture of target monomer by template initiator. **2010**, 132, 14748-50		125
1118	ATRP of Methacrylates Utilizing CuIIX2/L and Copper Wire. *Macromolecules*, **2010**, 43, 9682-9689	5.5	70
1117	Bisphosphine Monoxide-Ligated Ruthenium Catalysts: Active, Versatile, Removable, and Cocatalyst-Free in Living Radical Polymerization. *Macromolecules*, **2010**, 43, 5989-5995	5.5	35
1116	AAB-sequence living radical chain copolymerization of naturally occurring limonene with maleimide: an end-to-end sequence-regulated copolymer. **2010**, 132, 10003-5		226
1115	ATRP of MMA in Polar Solvents Catalyzed by FeBr2 without Additional Ligand. *Macromolecules*, **2010**, 43, 4003-4005	5.5	84
1114	Synthesis of nanogels/microgels by conventional and controlled radical crosslinking copolymerization. *Polymer Chemistry*, **2010**, 1, 965	4.9	176
1113	Photoirradiated Atom Transfer Radical Polymerization with an Alkyl Dithiocarbamate at Ambient Temperature. *Macromolecules*, **2010**, 43, 5180-5183	5.5	122
1112	Effective Cobalt-Mediated Radical Coupling (CMRC) of Poly(vinyl acetate) and Poly(N-vinylpyrrolidone) (Co)polymer Precursors. *Macromolecules*, **2010**, 43, 2801-2813	5.5	51
1111	Catalyzed chain growth (CCG) on a main group metal: an efficient tool to functionalize polyethylene. *Polymer Chemistry*, **2010**, 1, 793	4.9	102
1110	Syndiospecific Living Copolymerization of Styrene with □Caprolactone by Scandium Catalysts. *Macromolecules*, **2010**, 43, 9591-9593	5.5	33
1109	Dual hydrophilic polymers based on (meth)acrylic acid and poly(ethylene glycol) □ynthesis and water uptake behavior. *Polymer Chemistry*, **2010**, 1, 1669	4.9	20
1108	Universal polymer analysis by (1)H NMR using complementary trimethylsilyl end groups. **2010**, 132, 8757-65		36

1107	Facile Synthesis of Innocuous Comb-Shaped Polymethacrylates with PEG Side Chains by Nitroxide-Mediated Radical Polymerization in Hydroalcoholic Solutions. *Macromolecules*, **2010**, 43, 9291-9303	5.5	68
1106	Controlled Radical (Co)polymerization of Fluoromonomers. *Macromolecules*, **2010**, 43, 10163-10184	5.5	172
1105	Sequence-regulated vinyl copolymers by metal-catalysed step-growth radical polymerization. **2010**, 1, 6		193
1104	In-Situ Direct Mechanistic Transformation from RAFT to Living Cationic Polymerization for (Meth)acrylate/Vinyl Ether Block Copolymers. *Macromolecules*, **2010**, 43, 7523-7531	5.5	74
1103	Functionalization of coordination nanochannels for controlling tacticity in radical vinyl polymerization. **2010**, 132, 4917-24		99
1102	Metal-rich organometallics. **2010**, 39, 5759-67		7
1101	Synthesis of Poly(N-isopropylacrylamide)/Poly(ethylene glycol) Miktoarm Star Copolymers via RAFT Polymerization and Aldehyde/Aminooxy Click Reaction and Their Thermoinduced Micellization. *Macromolecules*, **2010**, 43, 5699-5705	5.5	49
1100	Single chain self-assembly: preparation of alpha,omega-donor-acceptor chains via living radical polymerization and orthogonal conjugation. *Chemical Communications*, **2010**, 46, 6291-3	5.8	70
1099	Transfer hydrogenation of ketones catalyzed by PEG-armed ruthenium-microgel star polymers: microgel-core reaction space for active, versatile and recyclable catalysis. **2011**, 43, 770-777		30
1098	Fluorinated Microgel-Core Star Polymers as Fluorous Compartments for Molecular Recognition. *Macromolecules*, **2011**, 44, 4574-4578	5.5	43
1097	Dendrimers and miktoarm polymers based multivalent nanocarriers for efficient and targeted drug delivery. *Chemical Communications*, **2011**, 47, 9572-87	5.8	109
1096	Multistimuli-responsive hybrid nanoparticles with magnetic core and thermoresponsive fluorescence-labeled shell via surface-initiated RAFT polymerization. **2011**, 7, 6958		46
1095	New hybrid core/shell star-like architectures made of poly(n-butyl acrylate) grown from well-defined titanium oxo-clusters. **2011**, 21, 4470		23
1094	Continuous direct on-line reaction monitoring of a controlled polymerisationvia dielectric measurement. **2011**, 13, 1147		16
1093	Synthesis and self-assembly of poly(3-hexylthiophene)-block-poly(acrylic acid). *Chemical Communications*, **2011**, 47, 197-9	5.8	97
1092	New insights into the mechanism of activation of atom transfer radical polymerization by Cu(I) complexes. *Chemical Communications*, **2011**, 47, 3580-2	5.8	93
1091	ATRP of MMA Catalyzed by FeIIBr2in the Presence of Triflate Anions. *Macromolecules*, **2011**, 44, 1226-1238	5.5	52
1090	Carborane complexes of ruthenium(III): studies on thermal reaction chemistry and the catalyst design for atom transfer radical polymerization of methyl methacrylate. **2011**, 50, 7574-85		38

1089	Homo- and Copolymerizations of (Meth)Acrylates with Olefins (Styrene, Ethylene) Using Neutral Nickel Complexes: A Dual Radical/Catalytic Pathway. *Macromolecules*, **2011**, 44, 3293-3301	5.5	50
1088	Quantitative Analysis of the Effect of Azo Initiators on the Structure of Polymer Chain Ends in Degenerative Chain-Transfer-Mediated Living Radical Polymerization Reactions. *Macromolecules*, **2011**, 44, 8388-8397	5.5	37
1087	Electronic Effects in the Oxidative Addition of Iodomethane with Mixed-Aryl Diketiminate Chromium Complexes. **2011**, 30, 603-610		14
1086	Cyclodextrin-Complexed RAFT Agents for the Ambient Temperature Aqueous Living/Controlled Radical Polymerization of Acrylamido Monomers. *Macromolecules*, **2011**, 44, 7220-7232	5.5	39
1085	Synthesis of thermoresponsive oxazolone end-functional polymers for reactions with amines using thiol-Michael addition click chemistry. *Polymer Chemistry*, **2011**, 2, 1258	4.9	27
1084	Radicals in transition metal catalyzed reactions? transition metal catalyzed radical reactions? a fruitful interplay anyway: part 1. Radical catalysis by group 4 to group 7 elements. **2012**, 320, 121-89		56
1083	Radicals in transition metal catalyzed reactions? transition metal catalyzed radical reactions? - a fruitful interplay anyway: part 2. Radical catalysis by group 8 and 9 elements. **2012**, 320, 191-322		50
1082	End-functionalized polymerization of 2-vinylpyridine through initial C-H bond activation of N-heteroaromatics and internal alkynes by yttrium ene-diamido complexes. **2011**, 133, 19626-9		87
1081	SG1 Nitroxide-Mediated Polymerization of Isoprene: Alkoxyamine Structure/Control Relationship and Chain-End Functionalization. *Macromolecules*, **2011**, 44, 9230-9238	5.5	56
1080	Living, Isoselective Polymerization of 4-Methyl-1,3-pentadiene and Styrenic Monomers and Synthesis of Highly Stereoregular Block Copolymers via Sequential Monomer Addition. *Macromolecules*, **2011**, 44, 7940-7947	5.5	25
1079	Atom Transfer Radical Polymerization (ATRP) for Production of Polymers from Renewable Resources. **2011**, 221-245		
1078	Synthesis of highly syndiotactic polymers by discrete catalysts or initiators. *Polymer Chemistry*, **2011**, 2, 2462	4.9	30
1077	Star and miktoarm star block (co)polymers viaself-assembly of ATRP generated polymer segments featuring Hamilton wedge and cyanuric acid binding motifs. *Polymer Chemistry*, **2011**, 2, 1146-1155	4.9	46
1076	First peptide/protein PEGylation with functional polymers designed by nitroxide-mediated polymerization. *Polymer Chemistry*, **2011**, 2, 1523	4.9	64
1075	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
1074	Polymerization of 4-vinylpyridine and N,N-dimethylacrylamide using a system without organic initiator. *Polymer Chemistry*, **2011**, 2, 2356	4.9	1
1073	Visualizing the efficiency of rapid modular block copolymer construction. *Polymer Chemistry*, **2011**, 2, 126-136	4.9	17
1072	Pd-mediated carbene polymerisation: activity of palladium(II) versus low-valent palladium. *Polymer Chemistry*, **2011**, 2, 422-431	4.9	28

1071	Design of AB divinyl template monomers toward alternating sequence control in metal-catalyzed living radical polymerization. *Polymer Chemistry*, **2011**, 2, 341-347	4.9	107
1070	Orthogonal modification of polymer chain-ends via sequential nitrile oxide–alkyne and azide–alkyne Huisgen cycloadditions. *Polymer Chemistry*, **2011**, 2, 372-375	4.9	33
1069	Metalloenzymatic radical polymerization using alkyl halides as initiators. *Polymer Chemistry*, **2011**, 2, 589-594	4.9	71
1068	Functional polymers for optoelectronic applications by RAFT polymerization. *Polymer Chemistry*, **2011**, 2, 492-519	4.9	140
1067	Functional Polyether-based Amphiphilic Block Copolymers Synthesized by Atom-transfer Radical Polymerization. **2011**, 64, 1183		13
1066	Ultrarapid Approaches to Mild Macromolecular Conjugation. **2011**, 21-52		
1065	Recent Synthetic Developments in Miktoarm Star Polymers with More than Three Different Arms. **2011**, 97-132		5
1064	Living Alkene Polymerization for Polyolefin Architectures. **2011**, 267-316		4
1063	Highly Branched Functional Polymer Architectures by Click-Chemistry Strategies. **2011**, 229-265		2
1062	Single-chain technology using discrete synthetic macromolecules. **2011**, 3, 917-24		320
1061	Origin of Initial Uncontrolled Polymerization and Its Suppression in the Copper(0)-Mediated Living Radical Polymerization of Methyl Acrylate in a Nonpolar Solvent. *Macromolecules*, **2011**, 44, 8034-8041	5.5	29
1060	Synthesis and Visualization of a Core Cross-Linked Star Polymer Carrying Optically Active Rigid-Rod Helical Polyisocyanide Arms and Its Chiral Recognition Ability. *Macromolecules*, **2011**, 44, 8687-8692	5.5	59
1059	Grafting of Polymers on Nanotubes by Atom Transfer Radical Polymerization. **2011**, 179-213		
1058	Iron-catalyzed cycloaddition of alkynenitriles and alkynes. **2011**, 13, 2936-9		108
1057	Iron Oxides as Heterogeneous Catalysts for Controlled/Living Radical Polymerization of Styrene and Methyl Methacrylate. *Macromolecules*, **2011**, 44, 1927-1933	5.5	23
1056	Ambient Temperature Synthesis of Triblock Copolymers via Orthogonal Photochemically and Thermally Induced Modular Conjugation. *Macromolecules*, **2011**, 44, 4681-4689	5.5	67
1055	Reversible Complexation Mediated Living Radical Polymerization (RCMP) Using Organic Catalysts. *Macromolecules*, **2011**, 44, 8709-8715	5.5	95
1054	Mechanically interlocked mechanophores by living-radical polymerization from rotaxane initiators. **2011**, 13, 2706-9		20

1053	Dinuclear molybdenum cluster-catalyzed radical addition and polymerization reactions by tuning the redox potential of a quadruple bonded Mo2 core. **2011**, 40, 9358-61		14
1052	Synthesis of Well-Defined Amphiphilic Poly(ε-caprolactone)-b-poly(N-vinylpyrrolidone) Block Copolymers via the Combination of ROP and Xanthate-Mediated RAFT Polymerization. *Macromolecules*, **2011**, 44, 2465-2473	5.5	65
1051	Iron-Mediated ICAR ATRP of Methyl Methacrylate. *Macromolecules*, **2011**, 44, 3233-3239	5.5	114
1050	New micellar morphologies from amphiphilic block copolymers: disks, toroids and bicontinuous micelles. *Polymer Chemistry*, **2011**, 2, 1018-1028	4.9	247
1049	ARGET ATRP of Methyl Acrylate with Inexpensive Ligands and ppm Concentrations of Catalyst. *Macromolecules*, **2011**, 44, 811-819	5.5	128
1048	Facile Synthesis of Hyperbranched and Star-Shaped Polymers by RAFT Polymerization Based on a Polymerizable Trithiocarbonate. *Macromolecules*, **2011**, 44, 2034-2049	5.5	102
1047	Multifunctional star polymer with reactive and thermosensitive arms and fluorescently labeled core: synthesis and its protein conjugate. **2011**, 21, 10390		25
1046	ATRP of MMA with ppm Levels of Iron Catalyst. *Macromolecules*, **2011**, 44, 4022-4025	5.5	90
1045	Straightforward Access to Amphiphilic Dual Bottle Brushes by Combining RAFT, ATRP, and NMP Polymerization in One Sequence. *Macromolecules*, **2011**, 44, 9635-9641	5.5	44
1044	Efficient catalytic systems based on paramagnetic closo-ruthenacarboranes for the controlled synthesis of polymers. **2011**, 60, 2375-2383		17
1043	Degradable and Biodegradable Polymers by Controlled/Living Radical Polymerization: From Synthesis to Application. **2011**, 235-261		1
1042	Insight into Organometallic-Mediated Radical Polymerization. **2011**, 51, 188-213		133
1041	Precision Synthesis of Functional Polymers and Oligomers by Radical Polymerization. **2011**, 47, 491-499		
1040	Polymer Synthesis in Coordination Nanospaces. *Bulletin of the Chemical Society of Japan*, **2011**, 84, 1169-1177	3	12
1039	Living Radical Polymerizations with Organic Catalysts. **2011**, 68, 223-231		
1038	Living Radical Polymerization with Active Catalysts: Promotion of Catalytic Cycle via Dynamic Transformation of the Metal Complex. **2011**, 68, 289-306		3
1037	Radical Polymerization Reaction of Styrene Catalyzed by β-Aminoketonato Complex of Iron. **2011**, 68, 484-492		3
1036	Transition Metal-Catalyzed Step-Growth Radical Polymerization. **2011**, 68, 436-456		0

1035	Organotellurium Compounds as Chain Transfer agents for Living Radical Polymerization. **2011**,	
1034	Controlled folding of synthetic polymer chains through the formation of positionable covalent bridges. **2011**, 3, 234-38	223
1033	Polymer folding: ABC of molecular origami. **2011**, 3, 194-6	14
1032	Recent developments in metal-catalyzed living radical polymerization. **2011**, 43, 105-120	52
1031	Materials chemistry: catalytic accordions. **2011**, 473, 40-1	43
1030	Investigation of iron complexes in ATRP: Indications of different iron species in normal and reverse ATRP. **2011**, 346, 20-28	5
1029	Photo-induced living/controlled surface radical grafting polymerization and its application in fabricating 3-D micro-architectures on the surface of flat/particulate organic substrates. **2011**, 52, 4159-4173	28
1028	Fluorogenic and Chromogenic Polymer Chemosensors. **2011**, 51, 341-390	64
1027	Single-chain folding of polymers for catalytic systems in water. **2011**, 133, 4742-5	337
1026	Precision synthesis of hybrid block copolymers by organotellurium-mediated successive living radical and cationic polymerizations. **2011**, 6, 445-51	34
1025	Synthesis of terpolymers by click reactions. **2011**, 6, 2584-91	63
1024	Bis-catecholate complexes of the IV group elements in the radical polymerization of styrene: ESR studies. **2011**, 60, 1620-1627	1
1023	Monomer-containing manganese complexes in polymerization of methyl methacrylate and styrene. **2011**, 84, 1813-1820	2
1022	Controlled radical polymerization: Prospects for application for industrial synthesis of polymers (Review). **2011**, 84, 2021-2028	37
1021	□5-cyclopentadienyl-□2-styrenedicarbonylmanganese for initiation of free-radical polymerization of vinyl monomers. **2011**, 53, 108-115	4
1020	Synthesis of functional polymers under conditions of controlled atom-transfer radical polymerization. **2011**, 53, 3-13	18
1019	Carbon radical generation by d0 tantalum complexes with □diimine ligands through ligand-centered redox processes. **2011**, 133, 18673-83	72
1018	Rethinking amide bond synthesis. **2011**, 480, 471-9	1298

1017	Synthesis of amphiphilic star block copolymer with photosensitive core by ATRP. **2011**, 19, 461-467	9
1016	Substituent effects of accelerator on nitroxide-mediated radical polymerization. **2011**, 19, 757-763	1
1015	An efficient avenue to poly(styrene)-block-poly(ε-caprolactone) polymers via switching from RAFT to hydroxyl functionality: Synthesis and characterization. **2011**, 49, 1-10	24
1014	Dicarbonyl pentaphenylcyclopentadienyl iron complex for living radical polymerization: Smooth generation of real active catalysts collaborating with phosphine ligand. **2011**, 49, 537-544	8
1013	Degradable multisegmented polymers synthesized by consecutive radical addition-coupling reaction of □-macrobiradicals and nitroso compound. **2011**, 49, 612-618	32
1012	Block-brush copolymers via ROMP and sequential double click reaction strategy. **2011**, 49, 886-892	50
1011	Oxidation of sec-alcohols with Ru(II)-bearing microgel star polymer catalysts via hydrogen transfer reaction: Unique microgel-core catalysis. **2011**, 49, 1061-1069	28
1010	Atom transfer radical polymerization of functional monomers employing Cu-based catalysts at low concentration: Polymerization of glycidyl methacrylate. **2011**, 49, 918-925	49
1009	Synthesis and phase-separation behavior of □-difunctionalized diblock copolymers. **2011**, 49, 926-937	8
1008	Improving the initiation efficiency in the single electron transfer living radical polymerization of methyl acrylate with electronic chain-end mimics. **2011**, 49, 1235-1247	53
1007	Cu(0) mediated polymerization in toluene using online rapid GPC monitoring. **2011**, 49, 1753-1763	51
1006	Linear tetrablock quaterpolymers via triple click reactions, azide-alkyne, diels□lder, and nitroxide radical coupling in a one-pot fashion. **2011**, 49, 1962-1968	42
1005	Synthesis of polyacrylonitrile by single-electron transfer-living radical polymerization using Fe(0) as catalyst and its adsorption properties after modification. **2011**, 49, 2916-2923	28
1004	Synthesis of poly(naphthalenecarboxamide)s with low polydispersity by chain-growth condensation polymerization. **2011**, 49, 3020-3029	10
1003	Synthesis, characterization, and rheological properties of multiarm stars with poly(glycidol) core and poly(methyl methacrylate) arms by AGET ATRP. **2011**, 49, 3138-3151	14
1002	Fluorinated AB diblock copolymers and their aggregates in organic solvents. **2011**, 49, 3647-3657	14
1001	Alumina additives for fast iron-mediated AGET ATRP of MMA using onium salt as ligand. **2011**, 49, 3970-3979	39
1000	Rate-enhanced ATRP in the presence of catalytic amounts of base: An example of iron-mediated AGET ATRP of MMA. **2011**, 49, 3980-3987	35

999	Synthesis of multiarmed poly(3-hexyl thiophene) star polymer with microgel core by GRIM and ATRP methods. **2011**, 49, 4221-4226	13
998	Homogeneous radical polymerization of 2-hydroxyethyl methacrylate mediated by cyclometalated cationic Ruthenium(II) complexes with PF_6^- and Cl^- in protic media. **2011**, 49, 4562-4577	10
997	In situ-generated Ru(III)-mediated ATRP from the polymeric Ru(III) complex in the absence of activator generation agents. **2011**, 49, 4594-4602	14
996	Preparation of reactive block copolymers and their transformation to hollowed nanostructures. **2011**, 49, 4955-4963	11
995	Formation of triblock copolymers via a tandem enhanced spin capturing–nitroxide-mediated polymerization reaction sequence. **2011**, 49, 4841-4850	22
994	Star macromolecules with hyperbranched poly(arylene oxindole) cores and polyacid arms: Synthesis and solution behavior. **2011**, 49, 5074-5086	6
993	Iron(III)-Mediated AGET ATRP of Methyl Methacrylate Using Vitamin C Sodium Salt as a Reducing Agent. **2011**, 212, 1481-1488	15
992	Iron-mediated AGET ATRP of Methyl Methacrylate in the Presence of Catalytic Amounts of Base. **2011**, 212, 1474-1480	12
991	Kinetic control of monomer sequence distribution in living anionic copolymerisation. **2011**, 32, 233-7	49
990	Designer template initiator for sequence regulated polymerization: systems design for substrate-selective metal-catalyzed radical addition and living radical polymerization. **2011**, 32, 209-14	56
989	Nucleobase-mediated stereospecific radical polymerization and combination with RAFT polymerization for simultaneous control of molecular weight and tacticity. **2011**, 32, 226-32	21
988	Highly efficient synthesis of low polydispersity core cross-linked star polymers by Ru-catalyzed living radical polymerization. **2011**, 32, 456-61	20
987	Precision polymers--modern tools to understand and program macromolecular interactions. **2011**, 32, 115-26	57
986	Tailored polymer microstructures prepared by atom transfer radical copolymerization of styrene and N-substituted maleimides. **2011**, 32, 127-35	123
985	Continuous controlled radical polymerization of methyl acrylate in a copper tubular reactor. **2011**, 32, 604-9	52
984	Controlled alternating copolymerization of (meth)acrylates and vinyl ethers by using organoheteroatom-mediated living radical polymerization. **2011**, 32, 893-8	46
983	Synthesis of Well-defined Amphiphilic Block Copolymers by Organotellurium-Mediated Living Radical Polymerization (TERP). **2011**, 32, 1576-82	24
982	Synthesis and Structure of Four-Coordinate Copper(II) Complexes Stabilized by β-Ketiminato Ligands and Application in the Reverse Atom-Transfer Radical Polymerization of Styrene. **2011**, 2011, 1666-1672	10

981	Radical Coordination Chemistry and Its Relevance to Metal-Mediated Radical Polymerization. **2011**, 2011, 1513-1530		89
980	Ruthenium-Catalyzed Synthesis of 1,5-Dichlorides by Sequential Intermolecular Kharasch Reactions. **2011**, 2011, 249-255		15
979	Substituent effect on the antimony atom in organostibine-mediated living radical polymerization. **2011**, 22, 307-315		3
978	Dual Ti–Ru Catalysis in the Direct Radical Haloalkylation of N-Acyl Oxazolidinones. *Angewandte Chemie*, **2011**, 123, 7274-7277	3.6	19
977	Star-Polymer-Catalyzed Living Radical Polymerization: Microgel-Core Reaction Vessel by Tandem Catalyst Interchange. *Angewandte Chemie*, **2011**, 123, 8038-8041	3.6	7
976	Synthesis and Direct Imaging of Ultrahigh Molecular Weight Cyclic Brush Polymers. *Angewandte Chemie*, **2011**, 123, 6004-6007	3.6	7
975	Sequence-Regulated Radical Polymerization with a Metal- Templated Monomer: Repetitive ABA Sequence by Double Cyclopolymerization. *Angewandte Chemie*, **2011**, 123, 7572-7575	3.6	40
974	Nitroxides: applications in synthesis and in polymer chemistry. *Angewandte Chemie - International Edition*, **2011**, 50, 5034-68	16.4	515
973	Dual Ti-Ru catalysis in the direct radical haloalkylation of N-acyl oxazolidinones. *Angewandte Chemie - International Edition*, **2011**, 50, 7136-9	16.4	61
972	Star-polymer-catalyzed living radical polymerization: microgel-core reaction vessel by tandem catalyst interchange. *Angewandte Chemie - International Edition*, **2011**, 50, 7892-5	16.4	71
971	Synthesis and direct imaging of ultrahigh molecular weight cyclic brush polymers. *Angewandte Chemie - International Edition*, **2011**, 50, 5882-5	16.4	91
970	Sequence-regulated radical polymerization with a metal-templated monomer: repetitive ABA sequence by double cyclopolymerization. *Angewandte Chemie - International Edition*, **2011**, 50, 7434-7	16.4	178
969	Surface-initiated atom-transfer radical polymerization of 4-acetoxystyrene for immunosensing. **2011**, 17, 976-83		18
968	Atom transfer radical polymerization of methylmethacrylate mediated by a naphtyl–nickel(II) phosphane complex. **2011**, 14, 542-544		16
967	Synthesis of glycopolymers via click reactions. *European Polymer Journal*, **2011**, 47, 435-446	5.2	160
966	Ambient temperature rapid ATRP of methyl acrylate, methyl methacrylate and styrene in polar solvents with mixed transition metal catalyst system. *European Polymer Journal*, **2011**, 47, 1460-1466	5.2	55
965	Synthesis of well-defined star-branched polymers by stepwise iterative methodology using living anionic polymerization. *Progress in Polymer Science*, **2011**, 36, 323-375	29.6	152
964	Telechelic polymers by living and controlled/living polymerization methods. *Progress in Polymer Science*, **2011**, 36, 455-567	29.6	313

963	Synthesis and radical polymerisation of methacrylic monomers with crown ethers or their dipodal counterparts in the pendant structure. **2011**, 71, 948-957		4
962	A green way to -lactams through a copper catalyzed ARGET-ATRC in ethanol and in the presence of ascorbic acid. **2011**, 67, 408-416		25
961	Aqueous metal-catalyzed living radical polymerization: highly active water-assisted catalysis. **2012**, 44, 51-58		18
960	Recent Trends on Molecular/Particle Design by Controlled/Living Radical Polymerization in Aqueous Dispersed Systems. **2012**, 48, 248-261		
959	Chemical auxiliary-free polymerization yielding non-linear PEG for protein-resistant application. **2012**, 2, 7174		1
958	PMMA-co-PHFBA-co-PHPA acrylic fluoropolymers via an ab initio emulsion atom transfer radical polymerisation with activators regenerated by electron transfer. **2012**, 41, 95-99		2
957	Controlled and Living Radical Polymerization Principles and Fundamentals. **2012**, 119-157		5
956	Transition Metal Complexes for Metal-Catalyzed Atom Transfer Controlled/Living Radical Polymerization. **2012**, 429-461		6
955	Radical Addition Fragmentation Chemistry and RAFT Polymerization. **2012**, 181-226		6
954	Radical Polymerization. **2012**, 59-118		1
953	Functional Degradable Polymeric Materials Prepared by Atom Transfer Radical Polymerization (ATRP). *ACS Symposium Series*, **2012**, 325-338	0.4	
952	Direct peptide bioconjugation/PEGylation at tyrosine with linear and branched polymeric diazonium salts. **2012**, 134, 7406-13		111
951	Photoinduced switching from living radical polymerization to a radical coupling reaction mediated by organotellurium compounds. **2012**, 134, 5536-9		76
950	Living radical polymerization of acrylates and acrylamides mediated by a versatile cobalt porphyrin complex. *Chemical Communications*, **2012**, 48, 3506-8	5.8	21
949	Determination of ATRP Equilibrium Constants under Polymerization Conditions. *ACS Macro Letters*, **2012**, 1, 1367-1370	6.6	74
948	Copper-Mediated Atom Transfer Radical Polymerization. **2012**, 377-428		14
947	Organoboron star polymersvia arm-first RAFT polymerization: synthesis, luminescent behavior, and aqueous self-assembly. *Polymer Chemistry*, **2012**, 3, 596	4.9	35
946	Supramolecular X-Shaped Homopolymers and Block Polymers by Midsegment Complementary Hydrogen Bonds: Design of Bifunctional Initiators with Interactive Sites for Metal-Catalyzed Living Radical Polymerization. *Macromolecules*, **2012**, 45, 3702-3710	5.5	24

945	Polymer-Chain Encoding: Synthesis of Highly Complex Monomer Sequence Patterns by Using Automated Protocols. *Angewandte Chemie*, **2012**, 124, 12420-12423	3.6	14
944	Polymer-chain encoding: synthesis of highly complex monomer sequence patterns by using automated protocols. *Angewandte Chemie - International Edition*, **2012**, 51, 12254-7	16.4	60
943	Kinetic study of in situ normal and AGET atom transfer radical copolymerization of n-Butyl acrylate and styrene: Effect of nanoclay loading and catalyst concentration. **2012**, 44, 789-799		4
942	Penultimate Unit and Solvent Effects on 2:1 Sequence Control During Radical Copolymerization of N-Phenylmaleimide With β-Pinene. **2012**, 213, 2479-2485		22
941	Facile Soap-Free Miniemulsion Polymerization of Methyl Methacrylate via Reverse Atom Transfer Radical Polymerization. **2012**, 33, 2121-6		16
940	Thermo-sensitive polymers based on graft polysiloxanes. **2012**, 69, 579-595		12
939	From-syndiotactic-to-isotactic stereogradient methacrylic polymers by RAFT copolymerization of methacrylic acid and its bulky esters. *Polymer Chemistry*, **2012**, 3, 1750-1757	4.9	27
938	Facile synthesis and versatile topological transformation of mono-cleavable symmetric starlike terpolymers. *Chemical Communications*, **2012**, 48, 9906-8	5.8	26
937	Directional interactions in semiflexible single-chain polymer folding. **2012**, 8, 7610		16
936	AGET ATRP of methyl methacrylatevia a bimetallic catalyst. **2012**, 2, 840-847		17
935	Reversible addition-fragmentation chain transfer polymerization in microemulsion. **2012**, 41, 3061-76		35
934	"Inverse" synthesis of polymer bioconjugates using soluble supports. *Chemical Communications*, **2012**, 48, 3887-9	5.8	36
933	Light-Driven Living/Controlled Radical Polymerization of Hydrophobic Monomers Catalyzed by Ruthenium(II) Metalacycles. *Macromolecules*, **2012**, 45, 8135-8146	5.5	78
932	Comproportionation versus Disproportionation in the Initiation Step of Cu(0)-Mediated Living Radical Polymerization. *Macromolecules*, **2012**, 45, 7388-7396	5.5	48
931	Highly Controlled Organotellurium-Mediated Living Radical Polymerization (TERP) in Ionic Liquids (ILs). The New Role of ILs in Radical Reactions.. *ACS Macro Letters*, **2012**, 1, 146-149	6.6	12
930	Syntheses and structures of closely related copper(I) complexes of tridentate (2-pyridylmethyl)imine and (2-pyridylmethyl)amine ligands and their use in mediating atom transfer radical polymerizations. **2012**, 51, 10762-73		18
929	Precise Synthesis of Amphiphilic Multiblock Copolymers by Combination of Acyclic Diene Metathesis (ADMET) Polymerization with Atom Transfer Radical Polymerization (ATRP) and Click Chemistry.. *ACS Macro Letters*, **2012**, 1, 423-427	6.6	39
928	Precision polyelectrolytes. *Chemical Communications*, **2012**, 48, 1517-9	5.8	35

927	Epitaxial crystal growth and solid-state polymerization of piperonyl muconate on the {001} surface of KCl crystal for controlling polymer chain alignment. **2012**, 4, 2280-7		6
926	Aromatic aldehyde functionalized polycaprolactone and polystyrene macromonomers: Synthesis, characterization and aldehyde□minooxy click reaction. **2012**, 72, 713-721		9
925	Reversible-deactivation radical polymerization mediated by CuSO4□5H2O: an alternative and promising copper(II)-based catalyst. *Polymer Chemistry*, **2012**, 3, 3220	4.9	9
924	"Clicking" on/with polymers: a rapidly expanding field for the straightforward preparation of novel macromolecular architectures. **2012**, 41, 176-91		308
923	Precise Synthesis of ABCDE Star Quintopolymers by Combination of Controlled Polymerization and Azide□Alkyne Cycloaddition Reaction. *Macromolecules*, **2012**, 45, 7429-7439	5.5	36
922	Rh-Mediated C1-Polymerization: Copolymers from Diazoesters and Sulfoxonium Ylides. **2012**, 2, 2046-2059		33
921	Iron-Based ICAR ATRP of Styrene with ppm Amounts of FeIIIBr3 and 1,1?-Azobis(cyclohexanecarbonitrile). *ACS Macro Letters*, **2012**, 1, 599-602	6.6	67
920	Synthesis of cross-linked carboxyl poly(glycerol methacrylate) and its application for the controlled release of doxorubicin. **2012**, 47, 556-63		13
919	Halogen Conservation in Atom Transfer Radical Polymerization. *Macromolecules*, **2012**, 45, 8929-8932	5.5	40
918	Constructing star polymersvia modular ligation strategies. *Polymer Chemistry*, **2012**, 3, 34-45	4.9	132
917	Key role of intramolecular metal chelation and hydrogen bonding in the cobalt-mediated radical polymerization of N-vinyl amides. **2012**, 18, 12834-44		51
916	Activation□Deactivation Equilibrium Associated With Iron-Mediated Atom-Transfer Radical Polymerization up to High Pressure. **2012**, 213, 2019-2026		27
915	Facile synthesis of ABCDE-type H-shaped quintopolymers by combination of ATRP, ROP, and click chemistry and their potential applications as drug carriers. **2012**, 50, 4705-4716		30
914	Synthesis of crosslinked poly(butyl methacrylate-co-pentaerythritol triacrylate) gel by single electron transfer-living radical polymerization and its oil-absorbing properties. **2012**, 50, 4871-4878		10
913	Copper(0)-mediated radical copolymerization of vinyl acetate and acrylonitrile in DMSO at ambient temperature. **2012**, 50, 4983-4989		8
912	Combining chemoenzymatic monomer transformation with ATRP: a facile "one-pot" approach to functional polymers. *Chemical Communications*, **2012**, 48, 9062-4	5.8	33
911	Transition Metals and Radicals. **2012**,		
910	Graft Copolymers and Comb-Shaped Homopolymers. **2012**, 511-542		7

909	Degenerative Transfer with Alkyl Iodide. **2012**, 159-180		17
908	Living Transition Metal-Catalyzed Alkene Polymerization. **2012**, 739-778		1
907	Controlled End-Group Functionalization (Including Telechelics). **2012**, 351-412		6
906	Analysis of the Cu(0)-Catalyzed Polymerization of Methyl Acrylate in Disproportionating and Nondisproportionating Solvents. *Macromolecules*, **2012**, 45, 4606-4622	5.5	133
905	No Reduction of CuBr2 during Cu(0)-Catalyzed Living Radical Polymerization of Methyl Acrylate in DMSO at 25 °C. *Macromolecules*, **2012**, 45, 8267-8274	5.5	60
904	Synthesis, Reactivity, and Structural Transformation of Mono- and Binuclear Carboranylamidinate-Based 3d Metal Complexes and Metallacarborane Derivatives. **2012**, 31, 1767-1774		39
903	Unexpected consequences of block polydispersity on the self-assembly of ABA triblock copolymers. **2012**, 134, 3834-44		158
902	An Orthogonal Modular Approach to Macromonomers Using Clickable Cyclobutenyl Derivatives and RAFT Polymerization. *Macromolecules*, **2012**, 45, 7758-7769	5.5	14
901	Low temperature depolymerization from a copper-based aqueous vinyl polymerization system. **2012**, 53, 5010-5015		9
900	Synthesis of well-defined amphiphilic poly(d,l-lactide)-b-poly(N-vinylpyrrolidone) block copolymers using ROP and xanthate-mediated RAFT polymerization. **2012**, 53, 5743-5753		32
899	Solution behavior of star polymers with oligo(ethylene glycol) methyl ether methacrylate arms. **2012**, 53, 5619-5631		19
898	Synthesis and Direct Visualization of Dumbbell-Shaped Molecular Brushes.. *ACS Macro Letters*, **2012**, 1, 241-245	6.6	55
897	Copper mediated controlled radical polymerization of methyl acrylate in the presence of ascorbic acid in a continuous tubular reactor. *Polymer Chemistry*, **2012**, 3, 1322	4.9	35
896	Cation-Condensed Microgel-Core Star Polymers as Polycationic Nanocapsules for Molecular Capture and Release in Water. *Macromolecules*, **2012**, 45, 3377-3386	5.5	34
895	Facile synthesis of highly pure block copolymers by combination of RAFT polymerization, click reaction and de-grafting process. *Polymer Chemistry*, **2012**, 3, 1803-1812	4.9	23
894	Facile Synthesis of Methacrylic ABC Triblock Copolymer Vesicles by RAFT Aqueous Dispersion Polymerization. *Macromolecules*, **2012**, 45, 5081-5090	5.5	162
893	Continuous controlled radical polymerization of methyl acrylate with copper wire in a CSTR. *Polymer Chemistry*, **2012**, 3, 486-497	4.9	28
892	Tunable Phase Behavior of Polystyrene–Polypeptoid Block Copolymers. *Macromolecules*, **2012**, 45, 6027-6035	5.5	43

891	Double modular modification of thiolactone-containing polymers: towards polythiols and derived structures. *Polymer Chemistry*, **2012**, 3, 1007	4.9	75
890	Consecutive living polymerization from cationic to radical: a straightforward yet versatile methodology for the precision synthesis of cleavable block copolymers with a hemiacetal ester junction. *Polymer Chemistry*, **2012**, 3, 2193	4.9	7
889	Cobalt-Mediated Radical Polymerization. **2012**, 67-80		
888	Versatile Synthesis of Multiarm and Miktoarm Star Polymers with a Branched Core by Combination of Menschutkin Reaction and Controlled Polymerization. *Macromolecules*, **2012**, 45, 9312-9325	5.5	37
887	Synthesis of oligo(thiophene)-coated star-shaped ROMP polymers: unique emission properties by the precise integration of functionality. **2012**, 134, 7892-5		40
886	Ferrocene Cocatalysis in Metal-Catalyzed Living Radical Polymerization: Concerted Redox for Highly Active Catalysis.. *ACS Macro Letters*, **2012**, 1, 321-323	6.6	14
885	2-Isopropenyl-2-oxazoline: A Versatile Monomer for Functionalization of Polymers Obtained via RAFT. *Macromolecules*, **2012**, 45, 20-27	5.5	50
884	New advances in titanium-mediated free radical reactions. **2012**, 17, 14700-32		43
883	Sb, Bi, Te, and I-Transfer Polymerization and Applications. **2012**,		
882	Sequence-regulated copolymers via tandem catalysis of living radical polymerization and in situ transesterification. **2012**, 134, 4373-83		131
881	Recent Advances in Catalysis for Efficient Process Chemistry. **2012**, 1, 2-12		1
880	High molecular weight polyacrylamides by atom transfer radical polymerization: Enabling advancements in water-based applications. **2012**, 50, 181-186		44
879	Ligand-free Cu(0)-mediated controlled radical polymerization of methyl methacrylate at ambient temperature. **2012**, 50, 711-719		19
878	3-miktoarm star terpolymers using triple click reactions: Diels-Alder, copper-catalyzed azide-alkyne cycloaddition, and nitroxide radical coupling reactions. **2012**, 50, 729-735		36
877	Nitroxide-mediated controlled radical polymerizations of styrene derivatives. **2012**, 50, 780-791		12
876	Controlled radical polymerization of tert-butyl acrylate at ambient temperature: Effect of initiator structure and synthesis of amphiphilic block copolymers. **2012**, 50, 996-1007		6
875	Structural Aspects of Copper-Mediated Atom Transfer Radical Polymerization with a Novel Tetradentate Bisguanidine Ligand. **2012**, 638, 1683-1690		21
874	Synthesis of fluorine-containing star-shaped poly(vinyl ether)s via arm-linking reactions in living cationic polymerization. **2012**, 50, 1547-1555		16

873	Basic ionic liquid/FeCl3□6H2O as an efficient catalyst for AGET ATRP of methyl methacrylate. **2012**, 50, 1605-1610	13
872	Phosphites as alternative coreagents for the one-pot aminolysis/thiol-ene synthesis of maleimide-functionalized RAFT polymers. **2012**, 50, 1657-1661	16
871	One-pot, facile synthesis of well-defined molecular brush copolymers by a tandem RAFT and ROMP, □grafting-through□strategy. **2012**, 50, 1681-1688	42
870	Fast copper catalyzed living radical polymerization of acrylonitrile utilizing a high concentration of radical initiator. **2012**, 50, 1933-1940	15
869	Thermodegradable multisegmented polymer synthesized by consecutive radical addition-coupling reaction of □macrobiradicals and dithioester. **2012**, 50, 2029-2036	4
868	Preparation of main-chain imidazolium-functionalized amphiphilic block copolymers through combination of condensation polymerization and nitroxide-mediated free radical polymerization and their micelle study. **2012**, 50, 2037-2044	14
867	ATRP of styrene catalyzed by elemental Fe(0) and Br2: An easy and economical ATRP process. **2012**, 50, 2182-2187	7
866	AGET ATRP of water-soluble PEGMA: Fast living radical polymerization mediated by iron catalyst. **2012**, 50, 2194-2200	24
865	Iron-mediated AGET ATRP of methyl methacrylate using metal wire as reducing agent. **2012**, 50, 2244-2253	28
864	Controlled random and alternating copolymerization of (meth)acrylates, acrylonitrile, and (meth)acrylamides with vinyl ethers by organotellurium-, organostibine-, and organobismuthine-mediated living radical polymerization reactions. **2012**, 50, 2254-2264	31
863	Photoinitiated RAFT polymerization of vinyl acetate. **2012**, 50, 2389-2397	47
862	Synthesis and self-assembly of amphiphilic brush-dendritic-linear poly[poly(ethylene glycol) methyl ether methacrylate]-b- polyamidoamine-b-poly(□caprolactone) copolymers. **2012**, 50, 2841-2853	5
861	Quadruple click reactions for the synthesis of cysteine-terminated linear multiblock copolymers. **2012**, 50, 2863-2870	15
860	A qualitative and quantitative post-mortem analysis: Studying free-radical initiation processes via soft ionization mass spectrometry. **2012**, 50, 2739-2757	19
859	Postfunctionalization of polyoxanorbornene via sequential Michael addition and radical thiol-ene click reactions. **2012**, 50, 3116-3125	48
858	Synthesis and properties of monocleavable amphiphilic comblike copolymers with alternating PEG and PCL grafts. **2012**, 50, 3135-3148	40
857	Producing bimodal molecular weight distribution polymers through facile one-pot/one-step RAFT polymerization. **2012**, 50, 4103-4109	6
856	Copper-mediated initiators for continuous activator regeneration atom transfer radical polymerization of acrylonitrile. **2012**, 50, 4358-4364	18

855	Controlling Polymer Primary Structure Using CRP: Synthesis of Sequence-Controlled and Sequence-Defined Polymers. *ACS Symposium Series*, **2012**, 1-12	0.4	5
854	Microgel-Core Star Polymers as Functional Compartments for Catalysis and Molecular Recognition. *ACS Symposium Series*, **2012**, 65-80	0.4	15
853	Synthesis of End Functionalized Polymers through Tellurium-Metal Transmetallation Reaction. *ACS Symposium Series*, **2012**, 99-114	0.4	3
852	ATRPases: Using Nature's Catalysts in Atom Transfer Radical Polymerizations. *ACS Symposium Series*, **2012**, 171-181	0.4	8
851	Investigation of Bis(acetylacetonato)iron(II) as a Moderator for the Radical Polymerization of Vinyl Acetate. *ACS Symposium Series*, **2012**, 231-242	0.4	3
850	Controlled Synthesis of Functional Copolymers with Blocky Architectures via Carbene Polymerization. *Macromolecules*, **2012**, 45, 3711-3721	5.5	26
849	Enhanced Activity of ATRP Fe Catalysts with Phosphines Containing Electron Donating Groups. *Macromolecules*, **2012**, 45, 5911-5915	5.5	58
848	Cobalt-mediated radical (co)polymerization of vinyl chloride and vinyl acetate. *Polymer Chemistry*, **2012**, 3, 2880	4.9	46
847	Double click reaction strategies for polymer conjugation and post-functionalization of polymers. *Polymer Chemistry*, **2012**, 3, 825-835	4.9	165
846	Aqueous ARGET ATRP. *Macromolecules*, **2012**, 45, 6371-6379	5.5	281
845	Accelerated Ambient-Temperature ATRP of Methyl Acrylate in Alcohol Water Solutions with a Mixed Transition-Metal Catalyst System. **2012**, 213, 1677-1687		34
844	Facile iron-mediated AGET ATRP for water-soluble poly(ethylene glycol) monomethyl ether methacrylate in water. **2012**, 33, 1067-73		46
843	Efficient and robust star polymer catalysts for living radical polymerization: cooperative activation in microgel-core reactors. **2012**, 33, 833-41		19
842	The glycopolymer code: synthesis of glycopolymers and multivalent carbohydrate-lectin interactions. **2012**, 33, 742-52		166
841	Preparation of Diamine-diketiminato Copper(II) Complexes and Their Application in the Reverse Atom-Transfer Radical Polymerization of Styrene. **2012**, 2012, 1672-1679		6
840	Transition-Metal Catalysts for Controlled Radical Polymerization: A First Update. **2012**, 52, 221-229		12
839	Atom-Transfer Radical Polymerisation (ATRP) as a Tool for the Development of Optical Sensing Phases. **2012**, 52, 264-275		6
838	ATRP with Alkyl Pseudohalides Acting as Initiators and Chain Transfer Agents: When ATRP and RAFT Polymerization Become One. **2012**, 52, 288-305		17

837	Core Cross-Linked Amphiphilic Star-Block Copolymers with (Meth)acrylic Acid Shells Prepared by Atom Transfer Radical Polymerization. **2012**, 52, 328-338		1
836	Microwave-Assisted RAFT Polymerization. **2012**, 52, 256-263		24
835	Catalytic Activity and Performance of Copper-Based Complexes Mediating Atom Transfer Radical Polymerization. **2012**, 52, 276-287		10
834	Homobimetallic Ethylene- and Vinylidene-Ruthenium Complexes for ATRP. *ACS Symposium Series*, **2012**, 115-132	0.4	1
833	Reversible Addition-Fragmentation Chain Transfer Polymerization under Microwave Heating Conditions. *ACS Symposium Series*, **2012**, 277-291	0.4	6
832	Reversible Complexation Mediated Polymerization (RCMP) of Methyl Methacrylate. *ACS Symposium Series*, **2012**, 305-315	0.4	10
831	Funktionale Blockcopolymere: nanostrukturierte Materialien mit neuen Anwendungsmöglichkeiten. *Angewandte Chemie*, **2012**, 124, 8020-8044	3.6	52
830	A Membrane-Bound Synthetic Receptor that Promotes Growth of a Polymeric Coating at the Bilayer/Water Interface. *Angewandte Chemie*, **2012**, 124, 7868-7871	3.6	2
829	Functional block copolymers: nanostructured materials with emerging applications. *Angewandte Chemie - International Edition*, **2012**, 51, 7898-921	16.4	547
828	A membrane-bound synthetic receptor that promotes growth of a polymeric coating at the bilayer-water interface. *Angewandte Chemie - International Edition*, **2012**, 51, 7748-51	16.4	16
827	Crosslinking benzotriazolylimides and polymeric materials on base of them. **2012**, 126, 1797-1807		5
826	Synthesis, characterization, and application of novel amphiphilic poly(D-gluconamidoethyl methacrylate)-b-polyurethane-b- poly(D-gluconamidoethyl methacrylate) triblock copolymers. **2012**, 128, n/a-n/a		1
825	Controlled bimodal molecular-weight-distribution polymers: facile synthesis by RAFT polymerization. **2012**, 18, 6015-21		14
824	Low-temperature iron-catalyzed depolymerization of polyethers. **2012**, 5, 1195-8		23
823	Dynamic-covalent nanostructures prepared by Diels-Alder reactions of styrene-maleic anhydride-derived copolymers obtained by one-step cascade block copolymerization. *Polymer Chemistry*, **2012**, 3, 3112	4.9	89
822	Low-catalyst concentration atom transfer radical polymerization of a phosphonium salt-type monomer. *Polymer Chemistry*, **2012**, 3, 2487	4.9	27
821	Activators generated by electron transfer for atom transfer radical polymerization: recent advances in catalyst and polymer chemistry. *Polymer Chemistry*, **2012**, 3, 2685	4.9	102
820	Polymeric assemblies and nanoparticles with stimuli-responsive fluorescence emission characteristics. *Chemical Communications*, **2012**, 48, 3262-78	5.8	130

819	Synthesis of linear functionalized polyesters by controlled atom transfer radical polyaddition reactions. *Polymer Chemistry*, **2012**, 3, 2523	4.9	15
818	Atom transfer radical polymerization (ATRP) of methyl methacrylate mediated by iron(II) chloride in the presence of polyethers as both solvents and ligands. **2012**, 20, 552-558		9
817	Water-soluble starlike poly(acrylic acid) graft polymer: preparation and application as templates for silver nanoclusters. **2012**, 68, 2229-2242		3
816	Organometallic mediated radical polymerization. *Progress in Polymer Science*, **2012**, 37, 127-156	29.6	142
815	Interpolymer radical coupling: A toolbox complementary to controlled radical polymerization. *Progress in Polymer Science*, **2012**, 37, 1004-1030	29.6	61
814	Polymer coatings for delivery of nucleic acid therapeutics. **2012**, 161, 537-53		54
813	Thermo-responsiveness of polysiloxanes grafted with poly(dimethyl acrylamide) segments. **2012**, 10, 1338-1348		4
812	Zinc-catalyzed depolymerization of artificial polyethers. **2012**, 18, 1910-3		34
811	Acyclic Triene Metathesis Polymerization of Plukenetia Conophora Oil: Branched Polymers by Direct Polymerization of Renewable Resources. **2012**, 213, 87-96		18
810	Fe(0) Powder/CuBr2-Mediated Living/Controlled Radical Polymerization of Methyl Methacrylate and Styrene at Ambient Temperature. **2012**, 213, 439-446		8
809	Functional polyolefins: poly(ethylene)-graft-poly(tert-butyl acrylate) via atom transfer radical polymerization from a polybrominated alkane. **2012**, 33, 75-9		20
808	Controlled radical polymerization mediated by amine-bis(phenolate) iron(III) complexes. **2012**, 33, 414-8		50
807	Effect of storage conditions on MMA polymerization via Fe(III)-mediated ATRP without any reducing agent. **2013**, 21, 442-449		6
806	Polypeptoids: a model system to study the effect of monomer sequence on polymer properties and self-assembly. **2013**, 9, 8400		100
805	Reversible generation of a carbon-centered radical from alkyl iodide using organic salts and their application as organic catalysts in living radical polymerization. **2013**, 135, 11131-9		128
804	SET-LRP of methacrylates in fluorinated alcohols. *Polymer Chemistry*, **2013**, 4, 5563	4.9	44
803	Reverse Atom Transfer Radical Emulsion Polymerization of Styrene and Butyl Acrylate Catalyzed by Iron Complexes. **2013**, 32,		7
802	Recent progress in controlled radical polymerization of N-vinyl monomers. *European Polymer Journal*, **2013**, 49, 2808-2838	5.2	83

801	Continuous ARGET ATRP of Methyl Methacrylate and Butyl Acrylate in a Stirred Tank Reactor. **2013**, 52, 11931-11942		17
800	Hemoglobin and red blood cells catalyze atom transfer radical polymerization. *Biomacromolecules*, **2013**, 14, 2703-12	6.9	75
799	Reversible-Deactivation Radical Polymerization of Methyl Methacrylate and Styrene Mediated by Alkyl Dithiocarbamates and Copper Acetylacetonates. *Macromolecules*, **2013**, 46, 5512-5519	5.5	19
798	Preparation of phosphine-functionalized polystyrene stars by metal catalyzed controlled radical copolymerization and their application to hydroformylation catalysis. **2013**, 42, 9148-56		12
797	Polymeric pseudo-crown ether for cation recognition via cation template-assisted cyclopolymerization. **2013**, 4, 2321		61
796	Organometallic mediated radical polymerization of vinyl acetate using bis(imino)pyridine vanadium trichloride complexes. **2013**, 42, 9157-65		15
795	Writing on polymer chains. **2013**, 46, 2696-705		116
794	SET-LRP of 2-hydroxyethyl acrylate in protic and dipolar aprotic solvents. *Polymer Chemistry*, **2013**, 4, 2995	4.9	48
793	CH Arylation Reaction: Atom Efficient and Greener Syntheses of Conjugated Small Molecules and Macromolecules for Organic Electronic Materials. *Macromolecules*, **2013**, 46, 8059-8078	5.5	269
792	Synthesis and characterization of mixed-ligand ferracarboranes. Direct metalation of the nido-carborane [nido-7,8-C2B9H12] mono-anion with 14-e [Ph2P(CH2)nPPh2]FeCl2 (n 2, 3). **2013**, 747, 148-154		9
791	Iron-mediated AGET ATRP of MMA using acidic/basic salts as reducing agents. **2013**, 70, 631-642		8
790	Synthesis and self-assembly properties of well-defined four-arm star poly(caprolactone)-b-poly(N-vinylpyrrolidone) amphiphilic block copolymers. **2013**, 70, 3201-3220		10
789	Design and property of thermoresponsive core shell fluorescent nanoparticles via RAFT polymerization and suzuki coupling reaction. **2013**, 51, 4021-4030		7
788	Well-Defined Condensation Polymers with Narrow Polydispersity via Unsymmetrical Ladderphanes by Sequential Polymerization. *Macromolecules*, **2013**, 46, 6712-6722	5.5	18
787	Recent progress in the use of photoirradiation in living radical polymerization. **2013**, 54, 981-994		153
786	Ambient temperature copper-mediated living radical polymerization of acrylonitrile with Me6TREN as the reducing agent. **2013**, 51, 1690-1694		9
785	Liquid Crystallinity of Random Copolymers of Polymethacrylates Containing Biphenyl Moieties Synthesized by Atom Transfer Radical Polymerization. **2013**, 579, 30-33		4
784	Monomer Sequence Distribution Monitoring in Living Carbanionic Copolymerization by Real-Time 1H NMR Spectroscopy. *Macromolecules*, **2013**, 46, 8467-8471	5.5	39

783	Synthesis, characterization and bulk properties of well-defined poly(hexafluorobutyl methacrylate)-block-poly(glycidyl methacrylate) via consecutive ATRP. **2013**, 153, 74-81		15
782	Synchronized Tandem Catalysis of Living Radical Polymerization and Transesterification: Methacrylate Gradient Copolymers with Extremely Broad Glass Transition Temperature.. *ACS Macro Letters*, **2013**, 2, 985-989	6.6	36
781	Thermoresponsive amphiphilic star block copolymer photosensitizer: smart BTEX remover. *Polymer Chemistry*, **2013**, 4, 2400	4.9	20
780	ICAR ATRP of acrylonitrile utilizing a moderate temperature radical initiator. **2013**, 31, 1613-1622		15
779	Features of acrylonitrile radical polymerization in the presence of iron carbonyl complexes. **2013**, 55, 460-466		5
778	Synthesis and versatile postpolymerization modification of couplable A(BC)mD heterografted comblike block quaterpolymers. *Polymer Chemistry*, **2013**, 4, 3272	4.9	18
777	Sequence-controlled polymers. **2013**, 341, 1238149		903
776	Recent advances in the homogeneous polymerisation of olefins mediated by nickel complexes. **2013**, 16, 573-579		11
775	Cyclic peroxides and related initiating systems for radical polymerization of methyl methacrylate. **2013**, 62, 1282-1285		5
774	Ruthenium carborane complexes: a relationship between the structure, electrochemical properties, and reactivity in catalysis of polymerization processes. **2013**, 62, 692-698		8
773	Effect of cholesterol-poly(N,N-dimethylaminoethyl methacrylate) on the properties of stimuli-responsive polymer liposome complexes. **2013**, 104, 254-61		13
772	Single-electron transfer-living radical copolymerization of butyl methacrylate and divinylbenzene for preparation of oil-absorbing gel. **2013**, 51, 3233-3239		6
771	Preparation of Polymer Supported Phosphine Ligands by Metal Catalyzed Living Radical Copolymerization and Their Application to Hydroformylation Catalysis. **2013**, 5, 1161-1169		11
770	Selective adsorption of functionalized nanoparticles to patterned polymer brush surfaces and its probing with an optical trap. **2013**, 14, 3523-31		5
769	Facile fabrication of biocompatible and tunable multifunctional nanomaterials via iron-mediated atom transfer radical polymerization with activators generated by electron transfer. **2013**, 5, 9663-9		22
768	Precision synthesis of acrylate multiblock copolymers from consecutive microreactor RAFT polymerizations. **2013**, 51, 2366-2374		72
767	Sequence-controlled polymerization using dendritic macromonomers: precise chain-positioning of bulky functional clusters. *Chemical Communications*, **2013**, 49, 7280-2	5.8	17
766	Atom transfer radical polymerization of methyl methacrylate with a thermo-responsive ligand: construction of thermoregulated phase-transfer catalysis in an aqueous–organic biphasic system. *Polymer Chemistry*, **2013**, 4, 2876	4.9	26

765	A comparative study of the SET-LRP of oligo(ethylene oxide) methyl ether acrylate in DMSO and in H2O. *Polymer Chemistry*, **2013**, 4, 144-155	4.9	105
764	A different route to functional polyolefins: olefin-carbene copolymerisation. **2013**, 42, 9058-68		21
763	A highly active homogeneous ICAR ATRP of methyl methacrylate using ppm levels of organocopper catalyst. *Polymer Chemistry*, **2013**, 4, 3725	4.9	22
762	Iron-mediated (dual) concurrent ATRP–RAFT polymerization of water-soluble poly(ethylene glycol) monomethyl ether methacrylate. *Polymer Chemistry*, **2013**, 4, 5664	4.9	14
761	Where is Cu(0) generated by disproportionation during SET-LRP?. *Polymer Chemistry*, **2013**, 4, 1328	4.9	59
760	Visible-Light-Induced Reversible Complexation Mediated Living Radical Polymerization of Methacrylates with Organic Catalysts. *Macromolecules*, **2013**, 46, 96-102	5.5	136
759	Improving the "livingness" of ATRP by Reducing Cu Catalyst Concentration. *Macromolecules*, **2013**, 46, 683-691	5.5	118
758	Microstructure Control: An Underestimated Parameter in Recent Polymer Design. **2013**, 214, 135-142		53
757	Progress in renewable polymers from natural terpenes, terpenoids, and rosin. **2013**, 34, 8-37		458
756	Cellulose-based macroinitiator for crosslinked poly(butyl methacrylate-co-pentaerythritol triacrylate) oil-absorbing materials by SET-LRP. **2013**, 51, 457-462		17
755	Iron-mediated AGET ATRP of MMA with sulfosalicylic acid as a ligand. **2013**, 51, 664-671		13
754	Alternating, gradient, block, and block–gradient copolymers of ethylene and norbornene by Pd–Diimine-Catalyzed "living" copolymerization. **2013**, 51, 672-686		25
753	Simultaneous dual end-functionalization of peg via the passerini three-component reaction for the synthesis of ABC miktoarm terpolymers. **2013**, 51, 865-873		50
752	Heterograft brush copolymers via romp and triple click reaction strategies involving CuAAC, diels–alder, and nitroxide radical coupling reactions. **2013**, 51, 899-907		34
751	Radical Haloalkylation. **2013**, 285-291		2
750	Functional Polymers with Controlled Microstructure Based on Styrene and N-Substituted Maleimides. **2013**, 173-192		
749	Glycopolymers via Post-Polymerization Modification Techniques. **2013**, 237-265		3
748	"Nascent" Cu(0) nanoparticles-mediated single electron transfer living radical polymerization of acrylonitrile at ambient temperature. **2013**, 51, 1468-1474		14

747	Responsive Polymer-Inorganic Hybrid Nanogels for Optical Sensing, Imaging, and Drug Delivery. **2013**, 269-319		1
746	The balance between intramolecular hydrogen bonding, polymer solubility and rigidity in single-chain polymeric nanoparticles. *Polymer Chemistry*, **2013**, 4, 2584	4.9	66
745	High-pressure atom transfer radical polymerization of n-butyl acrylate. **2013**, 34, 604-9		21
744	How far can we push polymer architectures?. **2013**, 135, 11421-4		78
743	Precision Vinyl Acetate/Ethylene (VAE) Copolymers by ROMP of Acetoxy-Substituted Cyclic Alkenes. *Macromolecules*, **2013**, 46, 2535-2543	5.5	60
742	Electroactive methacrylate-based triblock copolymer elastomer for actuator application. **2013**, 51, 1924-1932		15
741	Sequence-controlled multi-block glycopolymers to inhibit DC-SIGN-gp120 binding. *Angewandte Chemie - International Edition*, **2013**, 52, 4435-9	16.4	199
740	Synthesis of ultrahigh molar mass poly(2-hydroxyethyl methacrylate) by single-electron transfer living radical polymerization. *Polymer Chemistry*, **2013**, 4, 2760	4.9	52
739	Phosphine Ligand Decoration toward Active and Robust Iron Catalysts in LRP. *Macromolecules*, **2013**, 46, 3342-3349	5.5	42
738	Copper(0)-mediated radical polymerization of styrene at room temperature. **2013**, 31, 702-712		6
737	UV Light and Temperature Responsive Supramolecular ABA Triblock Copolymers via Reversible Cyclodextrin Complexation. *Macromolecules*, **2013**, 46, 1054-1065	5.5	68
736	Copper-mediated controlled radical polymerization in continuous flow processes: Synergy between polymer reaction engineering and innovative chemistry. **2013**, 51, 3081-3096		67
735	CuBr2/Me6TREN-mediated living radical polymerization of methyl methacrylate at ambient temperature. **2013**, 54, 148-154		14
734	Redox-Responsive Dynamic-Covalent Assemblies: Stars and Miktoarm Stars. *Macromolecules*, **2013**, 46, 2188-2198	5.5	86
733	SET-LRP of N-(2-hydroxypropyl)methacrylamide in H2O. *Polymer Chemistry*, **2013**, 4, 2424	4.9	55
732	Synthesis of functional 'polyolefins': state of the art and remaining challenges. **2013**, 42, 5809-32		284
731	Catechols as versatile platforms in polymer chemistry. *Progress in Polymer Science*, **2013**, 38, 236-270	29.6	422
730	Bulk and Thin Film Morphological Behavior of Broad Dispersity Poly(styrene-b-methyl methacrylate) Diblock Copolymers. *Macromolecules*, **2013**, 46, 4472-4480	5.5	41

729	Polymerization: Elastomer Synthesis. **2013**, 27-113		1
728	Surface-initiated polymerization from carbon nanotubes: strategies and perspectives. **2013**, 42, 677-704		77
727	A simple combination of higher-oxidation-state FeX3 and phosphine or amine ligand for living radical polymerization of styrene, methacrylate, and acrylate. *Polymer Chemistry*, **2013**, 4, 3554	4.9	32
726	Synthesis of poly(vinyl acetate)-b-poly(vinyl chloride) block copolymers by Cobalt-Mediated Radical Polymerization (CMRP). *Polymer Chemistry*, **2013**, 4, 1685	4.9	24
725	Cyclobutenyl macromonomers: Synthetic strategies and ring-opening metathesis polymerization. *European Polymer Journal*, **2013**, 49, 972-983	5.2	25
724	Chelating N-heterocyclic carbene group IV complexes for the polymerization of ethylene and styrene. **2013**, 728, 1-5		14
723	Syndiotactic Polystyrene-block-Poly(methyl methacrylate) Copolymer via Click Chemistry. **2013**, 214, 1990-1997		16
722	CHAPTER 8:Atom Transfer Radical Polymerization (ATRP). *RSC Polymer Chemistry Series*, **2013**, 287-357	1.3	21
721	CHAPTER 7:Living Radical Polymerizations with Organic Catalysts. *RSC Polymer Chemistry Series*, **2013**, 250-286	1.3	3
720	CHAPTER 6:Fundamentals of RAFT Polymerization. *RSC Polymer Chemistry Series*, **2013**, 205-249	1.3	19
719	Efficient and Green Route to □Lactams by Copper-Catalysed Reversed Atom Transfer Radical Cyclisation of □Polychloro-N-allylamides, using a Low Load of Metal (0.5 mol%). **2013**, 355, 1649-1660		26
718	Synthesis of Diblock Copolymer Nanoparticles via RAFT Alcoholic Dispersion Polymerization: Effect of Block Copolymer Composition, Molecular Weight, Copolymer Concentration, and Solvent Type on the Final Particle Morphology. *Macromolecules*, **2013**, 46, 128-139	5.5	116
717	Developing a Synthetic Approach with Thermoregulated Phase-Transfer Catalysis: Facile Access to Metal-Mediated Living Radical Polymerization of Methyl Methacrylate in Aqueous/Organic Biphasic System. *Macromolecules*, **2013**, 46, 2060-2066	5.5	55
716	Recoverable Reusable Polyisobutylene (PIB)-Bound Ruthenium Bipyridine (Ru(PIB-bpy)Cl) Photoredox Polymerization Catalysts.. *ACS Macro Letters*, **2013**, 2, 571-574	6.6	47
715	Synthesis of densely grafted copolymers with tert-butyl methacrylate/2-(dimethylamino ethyl) methacrylate side chains as precursors for brush polyelectrolytes and polyampholytes. **2013**, 137, 709-715		10
714	A facile strategy for synthesis of □-heterobifunctionalized poly (□caprolactones) and poly (methyl methacrylate)s containing □lickable□aldehyde and allyloxy functional groups using initiator approach. **2013**, 51, 2091-2103		8
713	Well-defined aminooxy terminated N-(2-hydroxypropyl) methacrylamide macromers for site specific bioconjugation of glycoproteins. **2013**, 24, 865-77		12
712	Effective Addition of Organic Chloride Salts on Atom Transfer Radical Polymerization in Fluoroalcohols. *Macromolecules*, **2013**, 46, 9189-9196	5.5	9

711	Straightforward Synthesis of Symmetrical Multiblock Copolymers by Simultaneous Block Extension and Radical Coupling Reactions. *Macromolecules*, **2013**, 46, 8922-8931	5.5	10
710	Sequence-Controlled Multi-Block Glycopolymers to Inhibit DC-SIGN-gp120 Binding. *Angewandte Chemie*, **2013**, 125, 4531-4535	3.6	39
709	Monomer Sequencing in Living Anionic Polymerization Using Kinetic Control. **2013**, 323, 42-50		24
708	Fluctuation effects on the order-disorder transition in polydisperse copolymer melts. **2013**, 139, 214905		23
707	A kinetic study of atom transfer radical polymerization of styrene with bis(2-pyridyl)ethylenedimethanimine derivative ligands. **2013**, 37, 824-832		3
706	Biocatalytic ATRP: Controlled Radical Polymerizations Mediated by Enzymes. *ACS Symposium Series*, **2013**, 163-171	0.4	7
705	Organometallic mediated radical polymerization of vinyl acetate with Fe(acac)2. **2013**, 51, 3494-3504		33
704	Application of fatty acid chlorides in the iron-catalyzed depolymerization of polyethers. **2013**, 115, 239-245		12
703	Cyclometalated Ruthenium(II) Complex as a Versatile Catalyst for Living/Controlled Radical Polymerization of Hydrophobic and Hydrophilic Monomers. **2013**, 325-326, 10-20		2
702	Purification of Peptides in High-Complexity Arrays. *Springer Theses*, **2013**,	0.1	1
701	Limitations of cyclodextrin-mediated RAFT homopolymerization and block copolymer formation. **2013**, 51, 2504-2517		15
700	Facile iron-mediated dispersant-free suspension polymerization of methyl methacrylate via reverse ATRP in water. **2013**, 34, 1747-54		33
699	A Bifunctional Diblock Copolymer from Consecutive RAFT Polymerizations and its Functionalization. **2013**, 214, 654-663		4
698	Single-electron transfer-living radical polymerization of oligo(ethylene oxide) methyl ether methacrylate in the absence and presence of air. **2013**, 51, 3110-3122		35
697	Seleno-containing poly(vinyl acetate) prepared by diselenocarbonates-mediated controlled free radical polymerizations. **2013**, 51, 3159-3165		14
696	Chain center-functionalized amphiphilic block polymers: Complementary hydrogen bond self-assembly in aqueous solution. **2013**, 51, 4498-4504		6
695	Iron-catalyzed ring-closing depolymerization of poly(tetrahydrofuran). **2013**, 6, 1334-6		23
694	Polymer Microgels for Catalysis. **2013**,		1

693	Polymer□Drug Nanoconjugates. **2013**, 1		
692	Functional Star Polymers via Living Radical Polymerization^|^mdash;Designer Functional Nanospaces. **2013**, 70, 432-448		7
691	Synthetic Glycopolymers: Some Recent Developments. **2013**, 39-59		19
690	Development of Amphiphilic N-Isopropylacrylamide Oligomers and Polymers, and Their Composites with Metal Ions. **2014**, 71, 457-466		3
689	The Synthesis of Polyvinyl Chloride and its Copolymers with the Participation of a Binuclear Iron Complex. **2014**, 41, 31-36		3
688	Sequence-Regulated Polymers via Living Radical Polymerization: From Design to Properties and Functions. *ACS Symposium Series*, **2014**, 255-267	0.4	21
687	Dynamic Single Chain Polymeric Nanoparticles: From Structure to Function. *ACS Symposium Series*, **2014**, 313-325	0.4	19
686	Novel Macromolecular Architectures via a Combination of Cyclodextrin Host/Guest Complexation and RAFT Polymerization. *Springer Theses*, **2014**,	0.1	2
685	Study of paramagnetic iron and ruthenium metallacarboranes using cyclic voltammetry and matrix-activated laser desorption/ionization time-of-flight spectrometry. **2014**, 63, 945-952		10
684	Iodine in Polymer Synthesis. **2014**, 489-500		1
683	Construction of Vinyl Polymer and Polyester or Polyamide Units in a Single Polymer Chain via Metal-catalyzed Simultaneous Chain- and Step-growth Radical Polymerization of Various Monomers. **2014**, 67, 544		11
682	Encyclopedia of Polymeric Nanomaterials. **2014**, 1-10		
681	Encyclopedia of Polymeric Nanomaterials. **2014**, 1-13		1
680	Cu(0)-Mediated Controlled/Living Radical Polymerization: A Tool for Precise Multiblock Copolymer Synthesis. *ACS Symposium Series*, **2014**, 201-212	0.4	
679	Catalytic Precision Polymerization: Rare Earth Metal-Mediated Synthesis of Homopolymers, Block Copolymers, and Polymer Brushes. **2014**, 215, 1946-1962		19
678	Star graft copolymer via grafting-onto strategy using a comb!ination of reversible addition□fragmentation chain transfer arm-first technique and aldehyde□minooxy click reaction. **2014**, 63, 1122-1128		11
677	Simultaneous Photoinduced ATRP and CuAAC Reactions for the Synthesis of Block Copolymers. **2014**, 35, 1782		41
676	Insight into the ATRP rate controlling ability of initiator structure: Micromolecular, macromolecular, and immobilized initiators. **2014**, 52, 2228-2238		11

675	Facile "living" radical polymerization of methyl methacrylate in the presence of iniferter agents: homogeneous and highly efficient catalysis from copper(II) acetate. **2014**, 35, 1332-9		40
674	Atom transfer radical polymerization of an epoxide-containing monomer, 4-vinylphenyloxirane, employing low concentration of catalyst: synthesis of linear and star-shaped macromolecules. **2014** , 63, 868-875		13
673	A rare example of the formation of polystyrene-grafted aliphatic polyester in one-pot by radical polymerization. **2014**, 20, 7419-28		3
672	The pentafluorostyrene endeavours with atom transfer radical polymerization□uo vadis?. **2014**, 63, 814-823		16
671	Precision PEGylated Polymers Obtained by Sequence-Controlled Copolymerization and Postpolymerization Modification. *Angewandte Chemie*, **2014**, 126, 9385-9389	3.6	8
670	Pressure Dependence of Iron-Mediated Methyl Methacrylate ATRP in Different Solvent Environments. **2014**, 215, 44-53		19
669	Alkoxyoxirane, a Unique Cyclic Monomer: Controlled Cationic Homopolymerization Mediated by Long-Lived Species and Copolymerization with Vinyl Ether via Alkoxy Group Transfer. *Macromolecules*, **2014**, 47, 8531-8540	5.5	9
668	Efficient synthesis of rigid ladder polymers via palladium catalyzed annulation. **2014**, 136, 17434-7		68
667	Well-controlled RAFT polymerization initiated by recyclable surface-modified Nb(OH)5 nanoparticles under visible light irradiation. **2014**, 52, 2715-2724		18
666	Well-defined iron complexes as efficient catalysts for "green" atom-transfer radical polymerization of styrene, methyl methacrylate, and butyl acrylate with low catalyst loadings and catalyst recycling. **2014**, 20, 5802-14		21
665	Interconvertible Living Radical and Cationic Polymerization through Reversible Activation of Dormant Species with Dual Activity. *Angewandte Chemie*, **2014**, 126, 11112-11116	3.6	12
664	Sequence-Controlled Multi-Block Glycopolymers via Cu(0) Mediated Living Radical Polymerization. *ACS Symposium Series*, **2014**, 327-348	0.4	4
663	Living Radical Polymerization via Organic Superbase Catalysis. **2014**, 6, 860-872		20
662	Macromolecular Architectures Designed by Living Radical Polymerization with Organic Catalysts. **2014**, 6, 311-326		21
661	Porous, functional, poly(styrene-co-divinylbenzene) monoliths by RAFT polymerization. *Polymer Chemistry*, **2014**, 5, 722-732	4.9	44
660	Thermal and microwave assisted polymerization of vinyl acetate catalyzed by cyclometalated ruthenium (II) complexes. **2014**, 55, 1656-1665		9
659	Facile One-Pot Synthesis of New Functional Polymers through Multicomponent Systems. **2014**, 215, 486-492		29
658	Zinc-Catalyzed Depolymerization of End-of-Life Polysiloxanes. *Angewandte Chemie*, **2014**, 126, 2754-2759	3.6	9

657	Functional Polyolefins Containing Disulfide and Phosphoester Groups: Synthesis and Orthogonal Degradation. *Macromolecules*, **2014**, 47, 1344-1350	5.5	36
656	Zinc-Catalyzed Depolymerization of Polyethers to Produce Valuable Building Blocks. **2014**, 144, 850-859		9
655	Carborane complexes of ruthenium with long-chain diphosphine ligands as effective catalysts of controlled radical polymerization. **2014**, 56, 1-10		9
654	The synthesis of (N1E,N4E)-N1,N4-bis(pyridine-2-YL) ethylene benzene-1,4-diamine and investigation of its efficiency as new binuclear catalyst complex in copper-based ATRP. **2014**, 71, 1043-1059		2
653	Quantum dots and polymer hybrid composites: new insights into fluorescence switch and turn-on anion sensing. **2014**, 181, 607-613		10
652	Recent advances in ATRP methods in relation to the synthesis of copolymer coating materials. **2014** , 77, 913-948		57
651	Single Component Iron Catalysts for Atom Transfer and Organometallic Mediated Radical Polymerizations: Mechanistic Studies and Reaction Scope. *Macromolecules*, **2014**, 47, 1249-1257	5.5	53
650	Living cationic polymerization of bisazobenzene-containing vinyl ether and synthesis of a graft copolymer by combination with ATRP. *Polymer Chemistry*, **2014**, 5, 4076-4082	4.9	8
649	Single electron transfer in radical ion and radical-mediated organic, materials and polymer synthesis. *Chemical Reviews*, **2014**, 114, 5848-958	68.1	302
648	Iron-mediated AGET ATRP of methyl methacrylate in the presence of polar solvents as ligands. **2014**, 52, 1020-1027		25
647	Macromolecular engineering by atom transfer radical polymerization. **2014**, 136, 6513-33		902
646	Synergistic Effect of 1-Butyl-3-methylimidazolium Hexafluorophosphate and DMSO in the SARA ATRP at Room Temperature Affording Very Fast Reactions and Polymers with Very Low Dispersity. *ACS Macro Letters*, **2014**, 3, 544-547	6.6	24
645	Zinc-catalyzed depolymerization of end-of-life polysiloxanes. *Angewandte Chemie - International Edition*, **2014**, 53, 2716-21	16.4	32
644	Towards sustainable polymer chemistry with homogeneous metal-based catalysts. **2014**, 16, 1673-1686		68
643	Emerging methods for the fabrication of polymer capsules. **2014**, 207, 14-31		159
642	Complex macromolecular architecture design via cyclodextrin host/guest complexes. *Progress in Polymer Science*, **2014**, 39, 235-249	29.6	156
641	AGET and SARA ATRP of styrene and methyl methacrylate mediated by pyridyl-imine based copper complexes. *European Polymer Journal*, **2014**, 51, 12-20	5.2	7
640	Functional spaces in star and single-chain polymers via living radical polymerization. **2014**, 46, 664-673		57

639	Selective Single Monomer Radical Addition via Template-Assisted Ring Closure: A Feasibility Study toward Sequence Control in Vinyl Polymers with Peptide Templates. *ACS Symposium Series*, **2014**, 149-160	0.4	2
638	Synthesis of Sequence-Controlled Copolymers Using Time-Regulated Additions of N-Substituted Maleimides in Styrenic Radical Polymerizations. *ACS Symposium Series*, **2014**, 119-131	0.4	2
637	Functionalization at the central position of vinyl polymer chains: highly associable multipoint hydrogen bonds for complementary self-assemblies. **2014**, 35, 431-6		7
636	Perylene as an Organic Photocatalyst for the Radical Polymerization of Functionalized Vinyl Monomers through Oxidative Quenching with Alkyl Bromides and Visible Light. *Macromolecules*, **2014**, 47, 8255-8261	5.5	251
635	An arm-first approach to cleavable mikto-arm star polymers by RAFT polymerization. **2014**, 35, 840-5		42
634	Reaction of iodine atoms with submicrometer squalane and squalene droplets: mechanistic insights into heterogeneous reactions. **2014**, 118, 10688-98		5
633	Large compound vesicles from amphiphilic block copolymer/rigid-rod conjugated polymer complexes. **2014**, 118, 12796-803		14
632	Synthesis and properties of heterografted toothbrush-like copolymers with alternating PEG and PCL grafts and tunable RAFT-generated segments. *Polymer Chemistry*, **2014**, 5, 4679-4692	4.9	25
631	Copper(II) complexes of bis(aryl-imino)acenaphthene ligands: synthesis, structure, DFT studies and evaluation in reverse ATRP of styrene. **2014**, 43, 13041-54		16
630	Multiblock sequence-controlled glycopolymers via Cu(0)-LRP following efficient thiol–halogen, thiol–epoxy and CuAAC reactions. *Polymer Chemistry*, **2014**, 5, 3876-3883	4.9	93
629	A facile one pot strategy for the synthesis of well-defined polyacrylates from acrylic acid via RAFT polymerization. *Chemical Communications*, **2014**, 50, 3331-4	5.8	15
628	Cu(0)-mediated polymerization of hydrophobic acrylates using high-throughput experimentation. *Polymer Chemistry*, **2014**, 5, 4268-4276	4.9	23
627	Reversible deactivation radical polymerization in the presence of zero-valent metals: from components to precise polymerization. *Polymer Chemistry*, **2014**, 5, 3533-3546	4.9	27
626	Continuous and direct in situ reaction monitoring of chemical reactions via dielectric property measurement: controlled polymerisation. **2014**, 4, 5709		8
625	Fluorous microgel star polymers: selective recognition and separation of polyfluorinated surfactants and compounds in water. **2014**, 136, 15742-8		61
624	Absolut copper catalyzation perfected: robust living polymerization of NIPAM: Guinness is good for SET-LRP. *Polymer Chemistry*, **2014**, 5, 57-61	4.9	71
623	Cobalt complex bearing ketoamine ligand: syntheses, structure, catalytic behavior for styrene and methyl methacrylate polymerization. **2014**, 28, 584-588		5
622	Iron-catalyzed AGET ATRP of methyl methacrylate using an alcohol as a reducing agent in a polar solvent. **2014**, 43, 16528-33		22

621	Utilization of star-shaped polymer architecture in the creation of high-density polymer brush coatings for the prevention of platelet and bacteria adhesion. **2014**, 2, 1172-1185		15
620	Facile and highly efficient living radical polymerization of hydrophilic vinyl monomers in water. **2014**, 4, 52430-52437		6
619	Metal-free atom transfer radical polymerization. **2014**, 136, 16096-101		637
618	Sequence-Controlled Polymers by Ruthenium-Mediated Ring-Opening Metathesis Polymerization. *ACS Symposium Series*, **2014**, 161-188	0.4	6
617	Atom transfer radical polymerization (ATRP) and organometallic mediated radical polymerization (OMRP) of styrene mediated by diaminobis(phenolato)iron(II) complexes: a DFT study. **2014**, 53, 7580-90		39
616	Mechanically Linked Block/Graft Copolymers: Effective Synthesis via Functional Macromolecular [2]Rotaxanes.. *ACS Macro Letters*, **2014**, 3, 324-328	6.6	31
615	Synthesis of and End-Functionalized Poly(n-butyl acrylate)s by Organocatalytic Group Transfer Polymerization Using Functional Initiator and Terminator. *Macromolecules*, **2014**, 47, 5514-5525	5.5	28
614	Interconvertible living radical and cationic polymerization through reversible activation of dormant species with dual activity. *Angewandte Chemie - International Edition*, **2014**, 53, 10932-6	16.4	76
613	A versatile tripodal Cu(I) reagent for C-N bond construction via nitrene-transfer chemistry: catalytic perspectives and mechanistic insights on C-H aminations/amidinations and olefin aziridinations. **2014**, 136, 11362-81		93
612	Initiators for Continuous Activator Regeneration Atom Transfer Radical Polymerization of Methyl Methacrylate and Styrene with N-Heterocyclic Carbene as Ligands for Fe-Based Catalysts. *ACS Macro Letters*, **2014**, 3, 944-947	6.6	30
611	Iron(II) complexes bearing anilido-imine ligands: Synthesis and catalysis on ATRP of methyl methacrylate. **2014**, 83, 236-241		7
610	Expanding the Scope of Controlled Radical Polymerization via Cobalt Tellurium Radical Exchange Reaction. *ACS Macro Letters*, **2014**, 3, 114-118	6.6	21
609	Visible Light Induced Living/Controlled Radical Polymerization of Acrylates Catalyzed by Cobalt Porphyrins. *Macromolecules*, **2014**, 47, 6238-6245	5.5	79
608	Aqueous copper-mediated living radical polymerisation of N-acryloylmorpholine, SET-LRP in water. **2014**, 35, 965-70		56
607	Photoinduced sequence-control via one pot living radical polymerization of acrylates. **2014**, 5, 3536-3542		133
606	Dimanganese decacarbonyl/2-cyanoprop-2-yl-1-dithionaphthalate: toward sunlight induced RAFT polymerization of MMA. *Polymer Chemistry*, **2014**, 5, 4641-4648	4.9	23
605	Controlled polymerization of protic ionic liquid monomer by ARGET-ATRP and TERP. **2014**, 35, 642-8		16
604	Modeling Atom-Transfer Radical Polymerization of Butyl Acrylate. **2014**, 23, 279-287		10

603	SP□LP□PR Measurement of Iron-Mediated Radical Termination in ATRP. *Macromolecules*, **2014**, 47, 6645-6651	5.5	18
602	Systematic Study on Alkyl Iodide Initiators in Living Radical Polymerization with Organic Catalysts. *Macromolecules*, **2014**, 47, 6610-6618	5.5	43
601	A Bicyclo[4.2.0]octene-Derived Monomer Provides Completely Linear Alternating Copolymers via Alternating Ring-Opening Metathesis Polymerization (AROMP). *Macromolecules*, **2014**, 47, 6572-6579	5.5	31
600	Periodically clickable polyesters: study of intrachain self-segregation induced folding, crystallization, and mesophase formation. **2014**, 136, 2538-45		43
599	Air-stable (phenylbuta-1,3-diynyl)palladium(II) complexes: highly active initiators for living polymerization of isocyanides. **2014**, 136, 4706-13		108
598	Synthesis of complex macromolecules using iterative copper(0)-mediated radical polymerization. **2014**, 52, 2083-2098		25
597	Precision synthesis of bio-based acrylic thermoplastic elastomer by RAFT polymerization of itaconic acid derivatives. **2014**, 35, 161-167		75
596	Photochemically Mediated Atom Transfer Radical Polymerization Using Polymeric Semiconductor Mesoporous Graphitic Carbon Nitride. **2014**, 215, 675-681		99
595	Precision PEGylated polymers obtained by sequence-controlled copolymerization and postpolymerization modification. *Angewandte Chemie - International Edition*, **2014**, 53, 9231-5	16.4	34
594	Synthesis, characterization, and solution behavior of well-defined double hydrophilic linear amphiphilic poly (N-isopropylacrylamide)-b-poly (□caprolactone)-b-poly (N-isopropylacrylamide) triblock copolymers. **2014**, 292, 1405-1418		16
593	Design of Benign Initiator for Living Cationic Polymerization of Vinyl Ethers: Facile in Situ Generation of Vinyl Ether□Hydrogen Halide Adducts and Subsequent Controlled Polymerization without a Lewis Acid Catalyst. *Macromolecules*, **2014**, 47, 1578-1585	5.5	33
592	Characteristics of Lamellar Mesophases in Strongly Segregated Broad Dispersity ABA Triblock Copolymers. *Macromolecules*, **2014**, 47, 4346-4356	5.5	36
591	Iron-mediated reversible deactivation controlled radical polymerization. *Progress in Polymer Science* , **2014**, 39, 1827-1845	29.6	111
590	Synthesis of cleavable multi-functional mikto-arm star polymer by RAFT polymerization: example of an anti-cancer drug 7-ethyl-10-hydroxycamptothecin (SN-38) as functional moiety. **2014**, 57, 995-1001		16
589	Synthesis of Titanium-Containing Block, Random, End-Functionalized, and Junction-Functionalized Polymers via Ruthenium-Catalyzed Living Radical Polymerization and Direct Observation of Titanium Domains by Electron Microscopy. *Macromolecules*, **2014**, 47, 944-953	5.5	10
588	Arm-cleavable microgel star polymers: a versatile strategy for direct core analysis and functionalization. **2014**, 136, 10254-7		34
587	Effects of graft length and density of well-defined graft polymers on the thermoresponsive behavior and self-assembly morphology. **2014**, 52, 2442-2453		14
586	Protein□polymer hybrid oil□absorbing gel using hair keratin as macroinitiator by SET-LRP. **2014**, 75, 56-62		11

585	Nitroxide-mediated radical ring-opening copolymerization: chain-end investigation and block copolymer synthesis. **2014**, 35, 484-91		42
584	Synthesis and Single-Chain Folding of Amphiphilic Random Copolymers in Water. *Macromolecules*, **2014**, 47, 589-600	5.5	163
583	Epoxides as reducing agents for low-catalyst-concentration atom transfer radical polymerization. **2014**, 35, 186-192		23
582	Poly(styrene-r-butadiene)-b-poly(poly(ethylene glycol) methyl ether methacrylate) as a silica dispersant in rubber compounds. **2014**, 63, 908-914		11
581	Recent advances in the controlled radical (co) polymerization of fluoroalkenes and applications therefrom. **2014**, 45, 3124-3133		11
580	Core-imprinted Star Polymers via Living Radical Polymerization: Precision Cavity Microgels for Selective Molecular Recognition. **2014**, 43, 1690-1692		7
579	ATRP/OMRP/CCT interplay in styrene polymerization mediated by iron(II) complexes: A DFT study of the □diimine system. **2014**, 20, 17530-40		22
578	Zinc(II)-triflate as catalyst precursor for ring-closing depolymerization of end-of-life polytetrahydrofuran to produce tetrahydrofuran. **2014**, 131, n/a-n/a		12
577	Living radical polymerization of vinyl acetate mediated by iron(III) acetylacetonate in the presence of a reducing agent. **2015**, 5, 96345-96352		3
576	Activation of the Carbon□alogen Bond. **2015**, 917-940		1
575	Iron-mediated AGET ATRP with crown ether as both ligand and solvent. **2015**, 5, 104733-104739		5
574	[Multi-component Reactions Based on Formal [2+2] Reaction of Benzyne with Formamide]. **2015**, 135, 1255-64		2
573	Star Polymers for Biomedical Applications. **2015**, 72, 410-420		
572	Living Radical Polymerization with Organic Catalysts under Thermal Heating and Photo Irradiation. **2015**, 72, 199-207		
571	Radical Polymerization Reaction of Styrene-Based Monomers Catalyzed by Iron Complexes Bearing β-Aminoketonato Ligand. **2015**, 72, 306-317		2
570	Recent Developments in Polymer Analogous Reactions. **2015**, 72, 550-560		
569	Precision Polymer Synthesis in Porous Metal-Organic Frameworks. **2015**, 72, 191-198		
568	Design and Functions of Fluorous Nanospaces with Microgel Star Polymers and Amphiphilic Random Copolymers. **2015**, 72, 691-706		

567	Synthesis and comparative behavior of ruthena(II)cycles bearing benzene ligand in the radical polymerization of styrene and vinyl acetate. **2015**, 799-800, 299-310		5
566	Effiziente photochemische Verfahren f□ die r□mlich aufgel□ste Oberfl□henfunktionalisierung. *Angewandte Chemie*, **2015**, 127, 11548-11564	3.6	19
565	Synthetic Covalent and Non-Covalent 2D Materials. *Angewandte Chemie - International Edition*, **2015**, 54, 13876-94	16.4	126
564	Ruthenium-Catalyzed O- to S-Alkyl Migration: A Pseudoreversible Barton-McCombie Pathway. *Angewandte Chemie - International Edition*, **2015**, 54, 10944-8	16.4	14
563	Photo-Induced atom transfer radical polymerization with nanosized □Fe2O3 as photoinitiator. **2015**, 132, n/a-n/a		10
562	Efficient Photochemical Approaches for Spatially Resolved Surface Functionalization. *Angewandte Chemie - International Edition*, **2015**, 54, 11388-403	16.4	78
561	Iron-mediated activators generated by electron transfer for atom-transfer radical polymerization of methyl methacrylate using ionic liquid as ligand and Fe(0) wire as reducing agent. **2015**, 64, 1754-1761		3
560	A Robust Lubrication System Using an Ionic Liquid Polymer Brush. **2015**, 2, 1500187		19
559	Studies of Free Radical Polymerization Initiated by Visible Light Photoredox Catalysis. **2015**, 216, 1055-1060		13
558	Synthesis of Amphiphilic Three-Armed Star Random Copolymers via Living Radical Polymerization and their Unimolecular Folding Properties in Water. **2015**, 350, 76-85		24
557	Toward model-driven engineering of supramolecular copolymers. **2015**, 53, 385-391		6
556	Synthesis of amphiphilic polymer networks with guest-host properties. **2015**, 53, 1824-1831		1
555	AGET ATRP of Methyl Methacrylate Based on Thermoregulated Phase Transfer Catalysis in Organic/Aqueous Biphasic System: Facile and Highly Efficient In Situ Catalyst/Ligand Separation and Recycling. **2015**, 216, 1171-1179		16
554	Cationic RAFT Polymerization Using ppm Concentrations of Organic Acid. *Angewandte Chemie*, **2015**, 127, 1944-1948	3.6	26
553	Synthetische kovalente und nichtkovalente zweidimensionale Materialien. *Angewandte Chemie*, **2015**, 127, 14082-14101	3.6	29
552	Ruthenium-Catalyzed O- to S-Alkyl Migration: A Pseudoreversible Barton□McCombie Pathway. *Angewandte Chemie*, **2015**, 127, 11094-11098	3.6	4
551	Optimization of Aqueous SI-ATRP Grafting of Poly(Oligo(Ethylene Glycol) Methacrylate) Brushes from Benzyl Chloride Macroinitiator Surfaces. **2015**, 15, 799-811		11
550	Filling polymersomes with polymers by peroxidase-catalyzed atom transfer radical polymerization. **2015**, 36, 507-14		42

549	Synthesis and Complexation of Well-Defined Labeled Poly(N,N-dimethylaminoethyl methacrylate)s (PDMAEMA). **2015**, 7, 2478-2493		16
548	The electrophilic effect of thiol groups on thiol–ene thermal click polymerization for hyperbranched polythioether. *Polymer Chemistry*, **2015**, 6, 3747-3753	4.9	25
547	Living Radical Polymerizations Using Sodium Iodide and Potassium Iodide as Catalysts. *ACS Symposium Series*, **2015**, 171-182	0.4	4
546	Pd-initiated controlled polymerization of diazoacetates with a bulky substituent: synthesis of well-defined homopolymers and block copolymers with narrow molecular weight distribution from cyclophosphazene-containing diazoacetates. *Polymer Chemistry*, **2015**, 6, 4709-4714	4.9	24
545	Efficient Cu-catalyzed Atom Transfer Radical Addition Reactions of Fluoroalkylsulfonyl Chlorides with Electron-deficient Alkenes Induced by Visible Light. *Angewandte Chemie*, **2015**, 127, 4320-4323	3.6	78
544	Molecularly Imprinted Polymer Nanomaterials and Nanocomposites: Atom-Transfer Radical Polymerization with Acidic Monomers. *Angewandte Chemie*, **2015**, 127, 5281-5284	3.6	23
543	Role of Radical Species in Salicylaldiminato Ni(II) Mediated Polymer Chain Growth: A Case Study for the Migratory Insertion Polymerization of Ethylene in the Presence of Methyl Methacrylate. **2015**, 137, 14819-28		33
542	Chain extension of center-functionalized polystyrene via radical–radical coupling: Periodic introduction of complementary hydrogen bonding interaction site on polymer chain. *European Polymer Journal*, **2015**, 62, 400-408	5.2	1
541	Fluorinated microgel star polymers as fluorous nanocapsules for the encapsulation and release of perfluorinated compounds. *Polymer Chemistry*, **2015**, 6, 5663-5674	4.9	12
540	Water soluble polythiophenes: preparation and applications. **2015**, 5, 20160-20177		65
539	Efficient Cu-catalyzed atom transfer radical addition reactions of fluoroalkylsulfonyl chlorides with electron-deficient alkenes induced by visible light. *Angewandte Chemie - International Edition*, **2015**, 54, 4246-9	16.4	295
538	Diffusion-regulated phase-transfer catalysis for atom transfer radical polymerization of methyl methacrylate in an aqueous/organic biphasic system. **2015**, 36, 538-46		20
537	Star-shaped cyclopolymers: A new category of star polymer with rigid cyclized arms prepared by controlled cationic cyclopolymerization and subsequent microgel formation of divinyl ethers. **2015**, 53, 1094-1102		7
536	Ambient temperature living radical copolymerization of styrene and methyl methacrylate with sodium hypophosphite as reducing agent. **2015**, 33, 362-370		5
535	Synthesis, postmodification and fluorescence properties of reduction-cleavable core-couplable miktoarm stars with a branched core. *Polymer Chemistry*, **2015**, 6, 1474-1486	4.9	17
534	Synthesis of functional polymers based on methacrylic monomers using ruthenium carborane complexes. **2015**, 57, 1-8		6
533	Debromination of ATRP-made Wang soluble polymer supports. **2015**, 72, 341-347		8
532	Facile synthesis of A2mB2n-type starlike copolymers with two types of V-shaped arms by combination of RAFT, ATRP and ROP processes. **2015**, 64, 249-259		8

531	Magnetic nanomaterials with near-infrared pH-activatable fluorescence via iron-catalyzed AGET ATRP for tumor acidic microenvironment imaging. **2015**, 3, 2786-2800		29
530	Star polymers: Advances in biomedical applications. *Progress in Polymer Science*, **2015**, 46, 55-85	29.6	264
529	Zinc-Catalyzed Depolymerization Reactions. **2015**, 207-218		
528	Molecularly imprinted polymer nanomaterials and nanocomposites: atom-transfer radical polymerization with acidic monomers. *Angewandte Chemie - International Edition*, **2015**, 54, 5192-5	16.4	80
527	Modelling of reversible single chain polymer self-assembly: from the polymer towards the protein limit. *Chemical Communications*, **2015**, 51, 6002-5	5.8	20
526	Two decades of molecular brushes by ATRP. **2015**, 72, 413-421		33
525	Iron catalysis in organic synthesis. *Chemical Reviews*, **2015**, 115, 3170-387	68.1	1237
524	Encyclopedia of Polymeric Nanomaterials. **2015**, 155-160		
523	Thioether-Mediated Degenerative Chain-Transfer Cationic Polymerization: A Simple Metal-Free System for Living Cationic Polymerization. *Macromolecules*, **2015**, 48, 5533-5542	5.5	48
522	Precise insertion of clickable monomer along polymer backbone by dynamic temperature controlled radical polymerization. *European Polymer Journal*, **2015**, 62, 347-351	5.2	11
521	Water soluble triblock and pentablock poly(methacryloyl nucleosides) from copper-mediated living radical polymerisation using PEG macroinitiators. *European Polymer Journal*, **2015**, 66, 444-451	5.2	13
520	Encyclopedia of Polymeric Nanomaterials. **2015**, 1080-1098		0
519	Facile iron(III)-mediated ATRP of MMA with phosphorus-containing ligands in the absence of any additional initiators. **2015**, 5, 62577-62584		9
518	Encyclopedia of Polymeric Nanomaterials. **2015**, 1133-1148		
517	Visible-Light-Induced Living Radical Polymerization (LRP) Mediated by (salen)Co(II)/TPO at Ambient Temperature. *Macromolecules*, **2015**, 48, 5132-5139	5.5	35
516	Thermoregulated phase transfer catalysis in aqueous/organic biphasic system: facile and highly efficient ATRP catalyst separation and recycling in situ using typical alkyl halide as initiator. *Polymer Chemistry*, **2015**, 6, 6394-6401	4.9	14
515	Epoxy-functionalized star-shaped polymers as novel toughening for epoxy resin. **2015**, 72, 2949-2965		7
514	Kinetics of Fe-Mediated ATRP with Triarylphosphines. *Macromolecules*, **2015**, 48, 4431-4437	5.5	26

513	A Synthetic and Multispectroscopic Speciation Analysis of Controlled Radical Polymerization Mediated by AmineBis(phenolate)iron Complexes. *Macromolecules*, **2015**, 48, 4329-4338	5.5	27
512	Controlled radical polymerization of styrene with magnetic iron oxides prepared through hydrothermal, bioinspired, and bacterial processes. **2015**, 5, 51122-51129		2
511	Iron-based catalytic systems in atom-transfer controlled-radical-polymerization processes. **2015**, 57, 32-64		8
510	Surface-initiated controlled radical polymerizations from silica nanoparticles, gold nanocrystals, and bionanoparticles. *Polymer Chemistry*, **2015**, 6, 5143-5184	4.9	95
509	Low Concentration Limitations of Catalyst and Conventional Free Radical Polymerization in ICAR ATRP of Butyl Methacrylate With PMDETA as the Ligand. **2015**, 52, 609-616		5
508	Ferrocene Cocatalysis for Iron-Catalyzed Living Radical Polymerization: Active, Robust, and Sustainable System under Concerted Catalysis by Two Iron Complexes. *Macromolecules*, **2015**, 48, 4294-4300	5.5	24
507	The Coil-to-Globule Transition of Single-Chain Polymeric Nanoparticles with a Chiral Internal Secondary Structure. *Macromolecules*, **2015**, 48, 3949-3956	5.5	42
506	Influence of less active initiator on the living performance of atom transfer radical polymerization and the structure of the synthesized grafted copolymer. **2015**, 5, 19117-19127		6
505	Encyclopedia of Polymeric Nanomaterials. **2015**, 1634-1639		
504	Encyclopedia of Polymeric Nanomaterials. **2015**, 1884-1892		
503	Speciation Analysis in Iron-Mediated ATRP Studied via FT-Near-IR and Mössbauer Spectroscopy. *Macromolecules*, **2015**, 48, 1981-1990	5.5	17
502	Surface-Initiated Living Radical Polymerizations Using Iodine, Organotellurium, and Organic Catalysts. **2015**, 107-122		2
501	Hyperbranched polymers: advances from synthesis to applications. **2015**, 44, 4091-130		469
500	Photocontrolled Organocatalyzed Living Radical Polymerization Feasible over a Wide Range of Wavelengths. **2015**, 137, 5610-7		185
499	Fluorinated Microgels in Star Polymers: From In-Core Dynamics to Fluorous Encapsulation. *Macromolecules*, **2015**, 48, 2901-2908	5.5	8
498	Rapid ambient temperature living radical polymerization of methyl methacrylate and styrene utilizing sodium hypophosphite as reducing agent. **2015**, 132, n/a-n/a		
497	Ring-Expansion Living Cationic Polymerization of Vinyl Ethers: Optimized Ring Propagation. **2015**, 350, 105-116		13
496	RAFT Polymerization Then and Now. *ACS Symposium Series*, **2015**, 211-246	0.4	35

495	Facile and universal photo-induced living radical polymerization system mediated by iniferter agent and copper(II) acetate at ambient temperature. **2015**, 5, 31657-31663		12
494	Radical Ring-Opening Polymerization: Molecular Designs, Polymerization Mechanisms, and Living/Controlled Systems. *ACS Symposium Series*, **2015**, 19-50	0.4	7
493	Synthesis of Star Polymers with Epoxide-Containing Highly Branched Cores by Low-Catalyst Concentration Atom Transfer Radical Polymerization and Post-Polymerization Modifications. *ACS Symposium Series*, **2015**, 149-167	0.4	8
492	New Phenomena in Organometallic-Mediated Radical Polymerization (OMRP) and Perspectives for Control of Less Active Monomers. **2015**, 21, 6988-7001		70
491	A well-defined, versatile photoinitiator (salen)Co-COCH for visible light-initiated living/controlled radical polymerization. **2015**, 6, 2979-2988		53
490	Amide group-containing polar solvents as ligands for iron-catalyzed atom transfer radical polymerization of methyl methacrylate. **2015**, 5, 43724-43732		14
489	Synthesis of Sequence-Regulated Polymers: Alternating Polyacetylene through Regioselective Anionic Polymerization of Butadiene Derivatives. *ACS Macro Letters*, **2015**, 4, 372-376	6.6	47
488	Cyclodextrin-based star polymers as a versatile platform for nanochemotherapeutics: Enhanced entrapment and uptake of idarubicin. **2015**, 129, 30-8		17
487	Development of solvent-free synthesis of hydrogen-bonded supramolecular polyurethanes. **2015**, 6, 2382-2388		23
486	Carbohydrate Multivalent Systems: Synthesis and Therapeutic Opportunities. **2015**, 419-439		1
485	Block Copolymers of PE-Like Poly(pentadecalactone) and Poly(l-lactide): Synthesis, Properties, and Compatibilization of Polyethylene/Poly(l-lactide) Blends. *Macromolecules*, **2015**, 48, 6909-6921	5.5	36
484	Encyclopedia of Polymeric Nanomaterials. **2015**, 1835-1841		
483	Encyclopedia of Polymeric Nanomaterials. **2015**, 1938-1944		
482	Encyclopedia of Polymeric Nanomaterials. **2015**, 118-124		0
481	Encyclopedia of Polymeric Nanomaterials. **2015**, 1658-1664		1
480	Encyclopedia of Polymeric Nanomaterials. **2015**, 1073-1080		
479	Evolution of ppm amount of Ru(III) complexes for effective living radical polymerization of MMA. **2015**, 53, 1961-1965		4
478	Fe(III)-mediated ICAR ATRP in a p-xylene/PEG-200 biphasic system: facile and highly efficient separation and recycling of an iron catalyst. *Polymer Chemistry*, **2015**, 6, 6616-6622	4.9	25

477	Core Cross-Linked Star Polymer Prepared Via Arm-Linking Reaction Mediated By 1,1-Diphenylethene Radical Polymerization System. **2015**, 52, 713-723		
476	Graft Density Dependence of Main Chain Stiffness in Molecular Rod Brushes. *Macromolecules*, **2015**, 48, 5878-5886	5.5	27
475	Encyclopedia of Polymeric Nanomaterials. **2015**, 1066-1073		
474	Cell and Protein Recognition at a Supported Bilayer Interface via In Situ Cavitand-Mediated Functional Polymer Growth. **2015**, 31, 11152-7		8
473	A thermoresponsive polymer supporter for concerted catalysis of ferrocene with a ruthenium catalyst in living radical polymerization: high activity and efficient removal of metal residues. *Polymer Chemistry*, **2015**, 6, 7821-7826	4.9	8
472	Encyclopedia of Polymeric Nanomaterials. **2015**, 1745-1750		6
471	Encyclopedia of Polymeric Nanomaterials. **2015**, 98-105		
470	Kinetics of Amine□Bis(phenolate) Iron-Mediated ATRP Up to High Pressure. *Macromolecules*, **2015**, 48, 6114-6120	5.5	13
469	SP□LP□PR Measurement of Iron-Mediated ATRP Deactivation Rate. *Macromolecules*, **2015**, 48, 6108-6113	5.5	9
468	Radical-initiated controlled synthesis of homo- and copolymers based on acrylonitrile. **2015**, 84, 712-736		22
467	Hybridization of CMRP and ATRP: A Direct Living Chain Extension from Poly(vinyl acetate) to Poly(methyl methacrylate) and Polystyrene. *Macromolecules*, **2015**, 48, 6832-6838	5.5	17
466	Triphenylphosphine as reducing agent for copper(II)-catalyzed AGET ATRP. **2015**, 33, 1260-1270		17
465	Termination Mechanism in the Radical Polymerization of Methyl Methacrylate and Styrene Determined by the Reaction of Structurally Well-Defined Polymer End Radicals. *Macromolecules*, **2015**, 48, 6450-6456	5.5	58
464	Single-chain crosslinked star polymers via intramolecular crosslinking of self-folding amphiphilic copolymers in water. **2015**, 47, 667-677		40
463	Kinetic features of pseudoliving radical polymerization under conditions of reversible inhibition by nitroxide radicals. **2015**, 57, 65-85		17
462	Encyclopedia of Polymeric Nanomaterials. **2015**, 1864-1871		1
461	Radical polymerization of acrylonitrile under the action of catalytic systems based on zero-valent copper. **2015**, 88, 1275-1281		7
460	Iron-catalyzed atom transfer radical polymerization. *Polymer Chemistry*, **2015**, 6, 1660-1687	4.9	95

459	Cationic RAFT polymerization using ppm concentrations of organic acid. *Angewandte Chemie - International Edition*, **2015**, 54, 1924-8	16.4	123
458	Facile synthesis of well-controlled poly(glycidyl methacrylate) and its block copolymers via SARA ATRP at room temperature. *Polymer Chemistry*, **2015**, 6, 1875-1882	4.9	7
457	Amphiphilic/fluorous random copolymers as a new class of non-cytotoxic polymeric materials for protein conjugation. *Polymer Chemistry*, **2015**, 6, 240-247	4.9	58
456	An atom transfer radical polymerization system: catalyzed by an iron catalyst in PEG-400. **2015**, 17, 271-278		41
455	Sequence-controlled multi-block copolymerization of acrylamides via aqueous SET-LRP at 0 ℃. *Polymer Chemistry*, **2015**, 6, 406-417	4.9	121
454	In situ bidentate to tetradentate ligand exchange reaction in cobalt-mediated radical polymerization. *European Polymer Journal*, **2015**, 62, 312-321	5.2	13
453	In situ and readily prepared metal catalysts and initiators for living cationic polymerization of isobutyl vinyl ether: dual-purpose salphen as a ligand framework for ZrCl4 and an initiating proton source. *Polymer Chemistry*, **2015**, 6, 30-34	4.9	9
452	Radical Polymerization. **2016**,		2
451	Iron-Mediated Homogeneous ICAR ATRP of Methyl Methacrylate under ppm Level Organometallic Catalyst Iron(III) Acetylacetonate. **2016**, 8,		21
450	ICAR ATRP of Acrylonitrile under Ambient and High Pressure. **2016**, 8,		19
449	Atom Transfer Radical Polymerization (ATRP). **2016**,		
448	Living radical polymerization of diisopropyl fumarate to obtain block copolymers containing rigid poly(substituted methylene) and flexible polyacrylate segments. **2016**, 54, 2136-2147		14
447	Methacrylic Zwitterionic, Thermoresponsive, and Hydrophilic (Co)Polymers via Cu(0)-Polymerization: The Importance of Halide Salt Additives. **2016**, 37, 356-61		19
446	Precision Self-Assembly of Amphiphilic Random Copolymers into Uniform and Self-Sorting Nanocompartments in Water. *Macromolecules*, **2016**, 49, 5084-5091	5.5	100
445	Improvement of the hydrophilicity of 7, 8-dihydroxyflavone by in situ grafting of PEG-A via RAFT polymerization and the drug efficacy tests. *European Polymer Journal*, **2016**, 81, 327-336	5.2	7
444	Diversity-Oriented Polymerization: One-Shot Synthesis of Library of Graft and Dendronized Polymers by Cu-Catalyzed Multicomponent Polymerization. **2016**, 138, 8612-22		52
443	Synthesis of metallacarborane ruthenium(ii) and ruthenium(iii) complexes with chelate 1,3-bis(diphenylphosphino)propane ligand and their mutual transformation in one-electron redox reactions. **2016**, 65, 1574-1579		6
442	From regulation of elementary stages of radical processes to controlled synthesis of macromolecules. **2016**, 52, 1541-1557		3

441	Comprehensive Study on Chain-End Transformation of Polymeric Iodides with Amines for Synthesizing Various Chain-End Functionalized Polymers. *Macromolecules*, **2016**, 49, 9425-9440	5.5	30
440	Model-Based Design To Push the Boundaries of Sequence Control. *Macromolecules*, **2016**, 49, 9336-9344	5.5	45
439	Formation and Function of Nanogels by Self-Assembly of Associating Graft Copolymers. **2016**, 73, 166-174		1
438	Organocatalyzed atom transfer radical polymerization driven by visible light. **2016**, 352, 1082-6		490
437	Acid-Induced Room Temperature RAFT Polymerization: Synthesis and Mechanistic Insights. *Macromolecules*, **2016**, 49, 4124-4135	5.5	18
436	Self-assembly, doxorubicin-loading and antibacterial activity of well-defined ABA-type amphiphilic poly(N-vinylpyrrolidone)-b-poly(D,L-lactide)-b-poly(N-vinyl pyrrolidone) triblock copolymers. **2016**, 6, 25864-25876		11
435	Cationic Cp*Ruthenium Catalysts for Metal-Catalyzed Living Radical Polymerization: Cocatalyst-Independent Catalysis Tuned by Counteranion. *Macromolecules*, **2016**, 49, 2962-2970	5.5	7
434	Terminal-Selective Transesterification of Chlorine-Capped Poly(Methyl Methacrylate)s: A Modular Approach to Telechelic and Pinpoint-Functionalized Polymers. **2016**, 138, 5012-5		21
433	Anthracene-based indium metal–organic framework as a promising photosensitizer for visible-light-induced atom transfer radical polymerization. **2016**, 18, 3696-3702		35
432	Catalyst-free iodine-mediated living radical polymerization under irradiation over a wide visible-light spectral scope. *Polymer Chemistry*, **2016**, 7, 3576-3588	4.9	34
431	Exploration of highly active bidentate ligands for iron (III)-catalyzed ATRP. **2016**, 90, 309-316		6
430	Active, effective, and "green" iron(III)/polar solvent catalysts for AGET ATRP of methyl methacrylate with various morphologies of elemental silver as a reducing agent. **2016**, 6, 88490-88497		3
429	Photoinduced Metal-Free Atom Transfer Radical Polymerization of Biomass-Based Monomers. *Macromolecules*, **2016**, 49, 7709-7717	5.5	46
428	Direct Synthesis of Functionalized High-Molecular-Weight Polyethylene by Copolymerization of Ethylene with Polar Monomers. *Angewandte Chemie*, **2016**, 128, 13475-13479	3.6	37
427	Controlled Cationic Copolymerization of Vinyl Monomers and Cyclic Acetals via Concurrent Vinyl-Addition and Ring-Opening Mechanisms. *Macromolecules*, **2016**, 49, 7184-7195	5.5	12
426	Nickel(0)-Catalyzed Polycondensation of Silafluorene: Control over Molecular Weight and Polymer Growth Mechanism. **2016**, 35, 2557-2562		3
425	A Supramolecular Approach to Macromolecular Self-Assembly: Cyclodextrin Host/Guest Complexes. **2016**, 1-32		1
424	Single-Chain Folding of Synthetic Polymers: A Critical Update. **2016**, 37, 29-46		174

423	Reversible Deactivation Radical Polymerization of Monomers Containing Activated Aziridine Groups. **2016**, 37, 1694-1700		8
422	Organocatalyzed Atom Transfer Radical Polymerization Using N-Aryl Phenoxazines as Photoredox Catalysts. **2016**, 138, 11399-407		234
421	New Class of Alkoxyamines for Efficient Controlled Homopolymerization of Methacrylates. *ACS Macro Letters*, **2016**, 5, 1019-1022	6.6	46
420	Dithiobenzoic copper(II): A novel, facile, and stable mediating agent combining ATRP and RAFT features for reversible deactivation radical polymerization of methacrylates. **2016**, 107, 170-176		6
419	Photoinduced Iron(III)-Mediated Atom Transfer Radical Polymerization with In Situ Generated Initiator: Mechanism and Kinetics Studies. **2016**, 55, 10235-10242		24
418	Direct Synthesis of Functionalized High-Molecular-Weight Polyethylene by Copolymerization of Ethylene with Polar Monomers. *Angewandte Chemie - International Edition*, **2016**, 55, 13281-13285	16.4	217
417	Chemoselective Transesterification of Acrylate Derivatives for Functionalized Monomer Synthesis Using a Hard Zinc Alkoxide Generation Strategy. **2016**, 2016, 3696-3699		9
416	Living Radical Polymerization with Alkali and Alkaline Earth Metal Iodides as Catalysts. *Macromolecules*, **2016**, 49, 5033-5042	5.5	32
415	Ferrocene cocatalysis for ruthenium-catalyzed radical miniemulsion polymerization. **2016**, 106, 313-319		1
414	Synthesis of Multivalent Organotellurium Chain-Transfer Agents by Post-modification and Their Applications in Living Radical Polymerization. **2016**, 22, 17006-17010		7
413	Metallocene-Containing Homopolymers and Heterobimetallic Block Copolymers via Photoinduced RAFT Polymerization. *ACS Macro Letters*, **2016**, 5, 1293-1300	6.6	31
412	Periodic introduction of a Hamilton receptor into a polystyrene backbone for a supramolecular graft copolymer with regular intervals. *Polymer Chemistry*, **2016**, 7, 7152-7160	4.9	2
411	From precision polymers to complex materials and systems. **2016**, 1,		555
410	Kinetics of Fe(III)Mesohemin(MPEG500)2-Mediated RDRP in Aqueous Solution. *Macromolecules*, **2016**, 49, 8088-8097	5.5	10
409	PHEA-g-PDMAEA well-defined graft copolymers: SET-LRP synthesis, self-catalyzed hydrolysis, and quaternization. *Polymer Chemistry*, **2016**, 7, 6973-6979	4.9	18
408	Atom Transfer Radical Polymerization of Functionalized Vinyl Monomers Using Perylene as a Visible Light Photocatalyst. **2016**, e53571		6
407	Semi-Crystalline Polar Polyethylene: Ester-Functionalized Linear Polyolefins Enabled by a Functional-Group-Tolerant, Cationic Nickel Catalyst. *Angewandte Chemie - International Edition*, **2016**, 55, 7106-10	16.4	159
406	Well-defined polymers containing a single mid-chain viologen group: synthesis, environment-sensitive fluorescence, and redox activity. *Polymer Chemistry*, **2016**, 7, 4402-4410	4.9	7

405	Multimode Self-Folding Polymers via Reversible and Thermoresponsive Self-Assembly of Amphiphilic/Fluorous Random Copolymers. *Macromolecules*, **2016**, 49, 4534-4543	5.5	69
404	SP□LP□PR Measurement of CuII-Mediated ATRP Deactivation and CuI-Mediated Organometallic Reactions in Butyl Acrylate Polymerization. *Macromolecules*, **2016**, 49, 4732-4738	5.5	17
403	Kinetic Insights into the Iron-Based Electrochemically Mediated Atom Transfer Radical Polymerization of Methyl Methacrylate. *Macromolecules*, **2016**, 49, 4038-4046	5.5	41
402	POSS tethered hybrid □himer□derived hyperbranched and star-shaped polymers via SCVP-RAFT technique. **2016**, 97, 113-121		17
401	Star Polymers. *Chemical Reviews*, **2016**, 116, 6743-836	68.1	494
400	A Facile Strategy for Catalyst Separation and Recycling Suitable for ATRP of Hydrophilic Monomers Using a Macroligand. **2016**, 37, 143-8		17
399	Semi-Crystalline Polar Polyethylene: Ester-Functionalized Linear Polyolefins Enabled by a Functional-Group-Tolerant, Cationic Nickel Catalyst. *Angewandte Chemie*, **2016**, 128, 7222-7226	3.6	66
398	Li(+) Catalysis and Other New Methodologies for the Radical Polymerization of Less Activated Olefins. *Chemical Reviews*, **2016**, 116, 771-85	68.1	26
397	Main-Chain and Side-Chain Sequence-Regulated Vinyl Copolymers by Iterative Atom Transfer Radical Additions and 1:1 or 2:1 Alternating Radical Copolymerization. **2016**, 138, 944-54		80
396	Transition Metal Complexes for Metal-Catalyzed Atom Transfer Controlled/Living Radical Polymerization. **2016**,		1
395	Inspired smart materials with external stimuli responsive wettability: a review. **2016**, 6, 36623-36641		110
394	Theoretical and Experimental Studies on Elementary Reactions in Living Radical Polymerization via Organic Amine Catalysis. *Macromolecules*, **2016**, 49, 2511-2517	5.5	21
393	Iron compounds in controlled radical polymerization: Ferrocenes, (clathro)chelates, and porphyrins. **2016**, 86, 125-143		7
392	Cobalt(III) and copper(II) hydrides at the crossroad of catalysed chain transfer and catalysed radical termination: a DFT study. *Polymer Chemistry*, **2016**, 7, 1079-1087	4.9	14
391	Synthesis of amphiphilic nanoparticles and multi-block hydrophilic copolymers by a facile and effective □iving□radical polymerization in water. *Polymer Chemistry*, **2016**, 7, 2486-2491	4.9	7
390	Drug-Initiated Synthesis of Polymer Prodrugs: Combining Simplicity and Efficacy in Drug Delivery. *Chemistry of Materials*, **2016**, 28, 1591-1606	9.6	68
389	Design of a hydrophilic ruthenium catalyst for metal-catalyzed living radical polymerization: highly active catalysis in water. **2016**, 6, 6577-6582		9
388	Control of stereochemistry in atom transfer radical addition and step-growth radical polymerization by chiral transition metal catalysts. **2016**, 72, 7657-7664		2

387	Simple Benchtop Approach to Polymer Brush Nanostructures Using Visible-Light-Mediated Metal-Free Atom Transfer Radical Polymerization. *ACS Macro Letters*, **2016**, 5, 258-262	6.6	165
386	Light-Controlled Radical Polymerization: Mechanisms, Methods, and Applications. *Chemical Reviews* , **2016**, 116, 10167-211	68.1	671
385	Radical Addition–Fragmentation Chemistry and RAFT Polymerization. **2016**,		
384	Atom transfer radical polymerization by solvent-stabilized (Me3TACN)FeX2: a practical access to reusable iron(II) catalysts. *Polymer Chemistry*, **2016**, 7, 1037-1048	4.9	5
383	Visible-light-induced controlled radical polymerization of methacrylates mediated by a pillared-layer metal–organic framework. **2016**, 18, 1475-1481		58
382	Fe-mediated ICAR ATRP of methyl methacrylate on photoinduced miniemulsion polymerization. **2016**, 16, 41-47		3
381	Copper-Mediated Living Radical Polymerization (Atom Transfer Radical Polymerization and Copper(0) Mediated Polymerization): From Fundamentals to Bioapplications. *Chemical Reviews*, **2016**, 116, 1803-949	68.1	347
380	Triazine-mediated controlled radical polymerization: new unimolecular initiators. *Polymer Chemistry* , **2016**, 7, 370-374	4.9	30
379	Synthesis of poly(n-butyl acrylate) homopolymer and poly(styrene-b-n-butyl acrylate-b-styrene) triblock copolymer via AGET emulsion ATRP using a cationic surfactant. **2016**, 54, 611-620		6
378	Amphiphilic PEG-Functionalized Gradient Copolymers via Tandem Catalysis of Living Radical Polymerization and Transesterification. *Macromolecules*, **2017**, 50, 822-831	5.5	25
377	Urea Anions: Simple, Fast, and Selective Catalysts for Ring-Opening Polymerizations. **2017**, 139, 1645-1652		149
376	Chitosan-based film supported copper nanoparticles: A potential and reusable catalyst for the reduction of aromatic nitro compounds. **2017**, 161, 187-196		52
375	Organometallic-mediated radical polymerization of less activated monomers: Fundamentals, challenges and opportunities. **2017**, 115, 285-307		50
374	Precision Synthesis of Imine-Functionalized Reversible Microgel Star Polymers via Dynamic Covalent Cross-Linking of Hydrogen-Bonding Block Copolymer Micelles. *Macromolecules*, **2017**, 50, 587-596	5.5	18
373	Surface-Initiated Controlled Radical Polymerization: State-of-the-Art, Opportunities, and Challenges in Surface and Interface Engineering with Polymer Brushes. *Chemical Reviews*, **2017**, 117, 1105-1318	68.1	566
372	Photocatalyzed iron-based ATRP of methyl methacrylate using 1,3-dimethyl-2-imidazolidinone as both solvent and ligand. **2017**, 7, 3888-3893		10
371	Light Leads to Ultra-Long Polymer Chains in Water. **2017**, 2, 13-15		4
370	Well-defined polymers containing high density of pendant viologen groups. **2017**, 55, 1173-1182		5

369	Nitroxide mediated suspension polymerization of methacrylic monomers. **2017**, 316, 655-662		30
368	Microgel Star Polymer Catalysts as Active and Functional Nanoreactors for Organic Reactions and Polymerizations. **2017**, 125-146		
367	Electrochemically mediated atom transfer radical polymerization (eATRP). *Progress in Polymer Science*, **2017**, 69, 47-78	29.6	226
366	Dynamisches makromolekulares Materialdesign die Vielseitigkeit von Cyclodextrin-basierter Wirt-Gast-Chemie. *Angewandte Chemie*, **2017**, 129, 8468-8488	3.6	19
365	Dynamic Macromolecular Material Design-The Versatility of Cyclodextrin-Based Host-Guest Chemistry. *Angewandte Chemie - International Edition*, **2017**, 56, 8350-8369	16.4	172
364	Organocatalyzed Living Radical Polymerization via in Situ Halogen Exchange of Alkyl Bromides to Alkyl Iodides. *Macromolecules*, **2017**, 50, 1882-1891	5.5	37
363	1,2-Dithiolane-Derived Dynamic, Covalent Materials: Cooperative Self-Assembly and Reversible Cross-Linking. **2017**, 139, 3822-3833		107
362	Ex situ Cu(0) nanoparticle mediated SET-LRP of methyl methacrylate/styrene-methyl methacrylate in a biphasic toluene water system. **2017**, 7, 11191-11197		4
361	Facile fabrication of Sudan red particle microcapsules by a polymerizable gemini surfactant and molecular assembly mechanisms. **2017**, 13, 1881-1887		3
360	Facile synthesis of size-tunable superparamagnetic/polymeric core/shell nanoparticles by metal-free atom transfer radical polymerization at ambient temperature. **2017**, 7, 7789-7792		9
359	50th Anniversary Perspective: Polymers with Complex Architectures. *Macromolecules*, **2017**, 50, 1253-1290	5.5	225
358	Novel alkoxyamines for the successful controlled polymerization of styrene and methacrylates. *Polymer Chemistry*, **2017**, 8, 1728-1736	4.9	26
357	Successful Cyclopolymerization of 1,6-Heptadiynes Using First-Generation Grubbs Catalyst Twenty Years after Its Invention: Revealing a Comprehensive Picture of Cyclopolymerization Using Grubbs Catalysts. *Macromolecules*, **2017**, 50, 3153-3163	5.5	18
356	Catalyst Design of Iron Complexes. *Bulletin of the Chemical Society of Japan*, **2017**, 90, 761-775	5.1	25
355	Effect of reaction conditions on poly(N -isopropylacrylamide) gels synthesized by post-polymerization crosslinking system. **2017**, 115, 73-80		7
354	Visible-Light-Induced Atom-Transfer-Radical Polymerization with a ppm-Level Iron Catalyst. **2017**, 56, 4949-4956		18
353	Well-defined functional mesoporous silica/polymer hybrids prepared by an ICAR ATRP technique integrated with bio-inspired polydopamine chemistry for lithium isotope separation. **2017**, 46, 6117-6127		16
352	Nanoscale Aggregation in Acid- and Ion-Containing Polymers. **2017**, 8, 499-523		34

351	One-dimensional helical Cu(II) coordination polymer: Synthesis, structures, and properties. **2017**, 85, 49-51		1
350	Supramolecular self-assembly of an ABA-Triblock bottlebrush polymer: Atomic-force microscopy visualization of discrete oligomers. **2017**, 120, 68-72		16
349	Organocatalyzed Atom Transfer Radical Polymerization: Perspectives on Catalyst Design and Performance. **2017**, 38, 1700040		101
348	ATRP in Water: Kinetic Analysis of Active and Super-Active Catalysts for Enhanced Polymerization Control. *Macromolecules*, **2017**, 50, 2696-2705	5.5	73
347	50th Anniversary Perspective: Metal-Catalyzed Living Radical Polymerization: Discovery and Perspective. *Macromolecules*, **2017**, 50, 2603-2614	5.5	101
346	Zinc versus Magnesium: Orthogonal Catalyst Reactivity in Selective Polymerizations of Epoxides, Bio-derived Anhydrides and Carbon Dioxide. **2017**, 23, 4260-4265		39
345	Metal-Free Photoinduced Electron Transfer-Atom Transfer Radical Polymerization Integrated with Bioinspired Polydopamine Chemistry as a Green Strategy for Surface Engineering of Magnetic Nanoparticles. **2017**, 9, 13637-13646		45
344	Self-Assembly of Hydrogen-Bonding Gradient Copolymers: Sequence Control via Tandem Living Radical Polymerization with Transesterification. *Macromolecules*, **2017**, 50, 3215-3223	5.5	23
343	Biocatalytic atom transfer radical polymerization in a protein cage nanoreactor. *Polymer Chemistry*, **2017**, 8, 2133-2136	4.9	29
342	Established and emerging strategies for polymer chain-end modification. **2017**, 55, 2903-2914		62
341	Suppressing Cyclic Polymerization for Isoselective Synthesis of High-Molecular-Weight Linear Polylactide Catalyzed by Sodium/Potassium Sulfonamidate Complexes. *Macromolecules*, **2017**, 50, 83-96	5.5	41
340	Graphene/star polymer nanocoating. **2017**, 103, 15-22		8
339	A Ring-Opening Metathesis Polymerization Catalyst That Exhibits Redox-Switchable Monomer Selectivities. **2017**, 23, 5994-6000		21
338	Intramolecular Charge Transfer and Ion Pairing in N,N-Diaryl Dihydrophenazine Photoredox Catalysts for Efficient Organocatalyzed Atom Transfer Radical Polymerization. **2017**, 139, 348-355		168
337	Synthetic Methods Toward Single-Chain Polymer Nanoparticles. **2017**, 1-45		3
336	Dynamically Folded Single-Chain Polymeric Nanoparticles. **2017**, 183-216		1
335	Single-Chain Nanoparticles via Self-Folding Amphiphilic Copolymers in Water. **2017**, 313-339		17
334	PHEA-g-PMMA Well-Defined Graft Copolymer: ATRP Synthesis, Self-Assembly, and Synchronous Encapsulation of Both Hydrophobic and Hydrophilic Guest Molecules. **2017**, 7, 12601		10

333	50th Anniversary Perspective: RAFT Polymerization—A User Guide. *Macromolecules*, **2017**, 50, 7433-7447	5.5	605
332	Design and Synthesis of Amphiphilic Vinyl Copolymers with Antimicrobial Activity. **2017**, 243-272		1
331	Mechanically linked supramolecular polymer architectures derived from macromolecular [2]rotaxanes: Synthesis and topology transformation. **2017**, 128, 276-296		28
330	Syntheses and effectiveness of functional peptide-based RAFT agents. *Chemical Communications*, **2017**, 53, 10776-10779	5.8	15
329	Radical Ring-Opening Copolymerization of Cyclic Ketene Acetals and Maleimides Affords Homogeneous Incorporation of Degradable Units. *ACS Macro Letters*, **2017**, 6, 1071-1077	6.6	33
328	Dynamic Light Scattering Investigation of the Kinetics and Fidelity of Supramolecular Copolymerizations in Water. *Macromolecules*, **2017**, 50, 7712-7720	5.5	17
327	Diverse approaches to star polymers via cationic and radical RAFT cross-linking reactions using mechanistic transformation. *Polymer Chemistry*, **2017**, 8, 5972-5981	4.9	25
326	Green Tea Makes Polyphenol Nanoparticles with Radical-Scavenging Activities. **2017**, 38, 1700446		54
325	Facile synthesis of poly(vinyl acetate)-b-polystyrene copolymers mediated by an iniferter agent using a single methodology. *Polymer Chemistry*, **2017**, 8, 5918-5923	4.9	10
324	Iron and copper based catalysts containing anionic phenolate ligands for atom transfer radical polymerization. **2017**, 25, 504-512		7
323	Self-Folding Polymer Iron Catalysts for Living Radical Polymerization. *ACS Macro Letters*, **2017**, 6, 830-835	6.6	53
322	Synthesis of (Bio)degradable Polymers by Controlled/"Living" Radical Polymerization. **2017**, 313-354		
321	Self-Assembly of Amphiphilic Random Copolyacrylamides into Uniform and Necklace Micelles in Water. **2017**, 218, 1700230		35
320	Visible-light-induced synthesis of polymers with versatile end groups mediated by organocobalt complexes. *Polymer Chemistry*, **2017**, 8, 6033-6038	4.9	10
319	Sequence-Controlled Polymers by Chain Polymerization. **2017**, 281-326		
318	Sequence Regulation in Chain-Growth Polymerizations. **2017**, 257-279		
317	Controlled Architecture of Hybrid Polymer Nanocapsules with Tunable Morphologies by Manipulating Surface-Initiated ARGET ATRP from Hydrothermally Modified Polydopamine. *Chemistry of Materials*, **2017**, 29, 10212-10219	9.6	27
316	The positive effect of water on photo-induced step transfer-addition & radical-termination (START) polymerization. **2017**, 7, 17988-17996		8

315	Fluorous Comonomer Modulates the Reactivity of Cyclic Ketene Acetal and Degradation of Vinyl Polymers. *Macromolecules*, **2017**, 50, 9222-9232	5.5	28
314	Self-assembly of PEG/dodecyl-graft amphiphilic copolymers in water: consequences of the monomer sequence and chain flexibility on uniform micelles. *Polymer Chemistry*, **2017**, 8, 7248-7259	4.9	62
313	Polymer brushes for antibiofouling and lubrication. **2017**, 3, 97-114		32
312	Photoinduced Fe-mediated atom transfer radical polymerization in aqueous media. *Polymer Chemistry*, **2017**, 8, 7360-7368	4.9	17
311	Strongly Reducing, Visible-Light Organic Photoredox Catalysts as Sustainable Alternatives to Precious Metals. **2017**, 23, 10962-10968		125
310	Rigid-to-Flexible Conformational Transformation: An Efficient Route to Ring-Opening of a Tröger's Base-Containing Ladder Polymer. *ACS Macro Letters*, **2017**, 6, 775-780	6.6	24
309	Recent New Methodologies for Acetylenic Polymers with Advanced Functionalities. **2017**, 375, 70		13
308	Metal-Free Atom Transfer Radical Polymerization of Methyl Methacrylate with ppm Level of Organic Photocatalyst. **2017**, 38, 1600461		64
307	Controlling supramolecular polymerization through multicomponent self-assembly. **2017**, 55, 34-78		101
306	A PHEA-g-PEO well-defined graft copolymer exhibiting the synchronous encapsulation of both hydrophobic pyrene and hydrophilic Rhodamine 6G. *Polymer Chemistry*, **2017**, 8, 431-440	4.9	6
305	2,6-Bis-benzimidazolylpyridines as new catalyst in copper-based ATRP. **2017**, 74, 931-948		2
304	Aqueous SARA ATRP using Inorganic Sulfites. *Polymer Chemistry*, **2017**, 8, 375-387	4.9	38
303	RAFT polymerization to form stimuli-responsive polymers. *Polymer Chemistry*, **2017**, 8, 177-219	4.9	218
302	Reversible Addition-Fragmentation Chain Transfer Polymerization of Acrylonitrile under Irradiation of Blue LED Light. **2016**, 9,		11
301	Recent New Methodologies for Acetylenic Polymers with Advanced Functionalities. **2017**, 33-71		2
300	Cavitands. **2017**, 87-115		1
299	Precision Design of Polymer Gel Networks Based on Living Radical Polymerization and Monomer Sequence Control. **2017**, 74, 365-374		
298	Ring Opening Polymerization and Copolymerization of Cyclic Esters Catalyzed by Group 2 Metal Complexes Supported by Functionalized P-N Ligands. **2018**, 57, 2503-2516		22

297	A novel light-induced ATRP for the preparation of water dispersible fluorescent nanodiamonds and their biological imaging applications. **2018**, 44, 9907-9914		6
296	Structure-Property Relationships for Tailoring Phenoxazines as Reducing Photoredox Catalysts. **2018**, 140, 5088-5101		142
295	Photomediated Controlled Polymerizations. **2018**, 363-387		3
294	How the catalyst circulates and works in organocatalyzed atom transfer radical polymerization. **2018**, 64, 2581-2591		11
293	Fast and Controlled Ring-Opening Polymerization of Cyclic Esters by Alkoxides and Cyclic Amides. *Macromolecules*, **2018**, 51, 2048-2053	5.5	27
292	Normal, ICAR and photomediated butadiene-ATRP with iron complexes. *Polymer Chemistry*, **2018**, 9, 2389-2406	4.9	15
291	Azobenzene-Based (Meth)acrylates: Controlled Radical Polymerization, Photoresponsive Solid–Liquid Phase Transition Behavior, and Application to Reworkable Adhesives. *Macromolecules*, **2018**, 51, 3243-3253	5.5	65
290	Advanced Materials by Atom Transfer Radical Polymerization. **2018**, 30, e1706441		300
289	Organic Ring-Opening Polymerization Catalysts: Reactivity Control by Balancing Acidity. *Macromolecules*, **2018**, 51, 2932-2938	5.5	73
288	Toward Ultimate Control of Radical Polymerization: Functionalized Metal–Organic Frameworks as a Robust Environment for Metal-Catalyzed Polymerizations. *Chemistry of Materials*, **2018**, 30, 2983-2994	9.6	34
287	Fluorous Gradient Copolymers via in-Situ Transesterification of a Perfluoromethacrylate in Tandem Living Radical Polymerization: Precision Synthesis and Physical Properties. *Macromolecules*, **2018**, 51, 864-871	5.5	13
286	Alkali Metal Carboxylate as an Efficient and Simple Catalyst for Ring-Opening Polymerization of Cyclic Esters. *Macromolecules*, **2018**, 51, 689-696	5.5	39
285	Double Hydrophilic Block Copolymer Self-Assembly in Aqueous Solution. **2018**, 219, 1700494		45
284	A facile method for the controlled polymerization of biocompatible and thermoresponsive oligo(ethylene glycol) methyl ether methacrylate copolymers. **2018**, 50, 203-211		9
283	Programmed Self-Assembly Systems of Amphiphilic Random Copolymers into Size-Controlled and Thermoresponsive Micelles in Water. *Macromolecules*, **2018**, 51, 398-409	5.5	71
282	Comparative investigation on radical polymerization of methyl and ethyl methacrylate under multi-site phase-transfer catalytic conditions. **2018**, 8, 1-11		3
281	SET-LRP in biphasic mixtures of fluorinated alcohols with water. *Polymer Chemistry*, **2018**, 9, 2313-2327	4.9	13
280	Hydrogen bonding improved atom transfer radical polymerization of methyl methacrylate with a glycerol/1,3-dimethyl-2-imidazolidinone green system. **2018**, 56, 282-289		6

279	Topology-transformable polymers: linear–branched polymer structural transformation via the mechanical linking of polymer chains. **2018**, 50, 127-147		32
278	Controlled sub-10-nanometer poly(N-isopropyl-acrylamide) layers grafted from silicon by atom transfer radical polymerization. **2018**, 29, 806-813		10
277	Synthesis and characterization of amphiphilic miktoarm star polymers based on sydnone-maleimide double cycloaddition. *Polymer Chemistry*, **2018**, 9, 203-212	4.9	9
276	Controlled Radical Polymerization of Ethylene Using Organotellurium Compounds. *Angewandte Chemie - International Edition*, **2018**, 57, 305-309	16.4	27
275	Controlled Radical Polymerization of Ethylene Using Organotellurium Compounds. *Angewandte Chemie*, **2018**, 130, 311-315	3.6	10
274	Living Ab Initio Emulsion Polymerization of Methyl Methacrylate in Water Using a Water-Soluble Organotellurium Chain Transfer Agent under Thermal and Photochemical Conditions. *Angewandte Chemie - International Edition*, **2018**, 57, 962-966	16.4	21
273	Living Ab Initio Emulsion Polymerization of Methyl Methacrylate in Water Using a Water-Soluble Organotellurium Chain Transfer Agent under Thermal and Photochemical Conditions. *Angewandte Chemie*, **2018**, 130, 974-978	3.6	5
272	Elucidation of the Mechanism and Synthetic Utilization of Termination Reaction of Radical Polymerization Based on Living Radical Polymerization. **2018**, 75, 444-455		1
271	Microporous metal–organic frameworks with open metal sites and Lewis acidic pore surfaces for recovering ethylene from polyethylene off-gas. **2018**, 6, 20822-20828		20
270	Preface. *ACS Symposium Series*, **2018**, ix-x	0.4	
269	Controlled copolymerization of acrylonitrile with methyl acrylate and dimethyl itaconate via ARGET ATRP mechanism. **2018**, 25, 1		10
268	One-Pot Multicomponent Tandem Reactions and Polymerizations for Step-Economic Synthesis of Structure-Controlled Pyrimidine Derivatives and Poly(pyrimidine)s. *Macromolecules*, **2018**, 51, 9749-9757	5.5	21
267	Drug-Initiated Synthesis of Cladribine-Based Polymer Prodrug Nanoparticles: Biological Evaluation and Structure Activity Relationships. *ACS Symposium Series*, **2018**, 201-217	0.4	
266	Recent Progress on Grafting-onto Synthesis of Molecular Brushes by Reversible Deactivation Radical Polymerization and CuAAC Coupling Reaction. *ACS Symposium Series*, **2018**, 263-280	0.4	3
265	Biocatalytic Polymerization, Bioinspired Surfactants, and Bioconjugates Using RAFT Polymerization. *ACS Symposium Series*, **2018**, 219-232	0.4	1
264	In Situ Terminal Functionalization of Polystyrene Obtained by Quasiliving ATRP and Subsequent Derivatizations. *ACS Symposium Series*, **2018**, 281-295	0.4	0
263	The interaction of carbon-centered radicals with copper(I) and copper(II) complexes*. **2018**, 71, 1641-1668		10
262	Insights into the Reactivity of Epoxides as Reducing Agents in Low-Catalyst-Concentration ATRP Reactions. *ACS Symposium Series*, **2018**, 191-203	0.4	0

261	Autocorrelation in Multiblock Copolymers. *ACS Symposium Series*, **2018**, 25-41	0.4	
260	Multidentate Block Copolymer Stabilization: A Versatile Strategy for Colloidal Superparamagnetic Iron Oxide Nanoparticles Exhibiting Excellent Colloidal Stability and Enhanced Positive MRI Visualization. *ACS Symposium Series*, **2018**, 107-128	0.4	
259	Synthesis of a Structurally Controlled Polyacrylonitrile Gel for Energy-Storage Devices by an Organotellerium-Mediated Radical Copolymerization and Subsequent Cross-Linking Reaction. *ACS Symposium Series*, **2018**, 129-142	0.4	1
258	Programmed Self-Assembly of Amphiphilic Random Copolymers in Water via Controlled Radical Polymerization. *ACS Symposium Series*, **2018**, 143-155	0.4	5
257	Direct Hydrophilic Modification of Polymer Surfaces via Surface-Initiated ATRP. *ACS Symposium Series*, **2018**, 157-168	0.4	1
256	Transformation from xanthate-type cationogen mediated metal-free RAFT cationic polymerization with HCl□Et2O□into RAFT radical polymerization to form poly(alkyl vinyl ether)-b-polyvinyl alcohol amphiphiles. **2018**, 154, 153-163		5
255	Subject Index. *ACS Symposium Series*, **2018**, 303-307	0.4	
254	Yb(NTf2)3/HFIP induced high isotacticity in atom transfer radical polymerization of methyl methacrylate. *Polymer Chemistry*, **2018**, 9, 4711-4715	4.9	9
253	Synthesis of Well-Defined Polystyrene with Molar Mass Exceeding 500 kg/mol by RAFT Emulsion Polymerization. *ACS Symposium Series*, **2018**, 81-106	0.4	1
252	Discrete and Stereospecific Oligomers Prepared by Sequential and Alternating Single Unit Monomer Insertion. **2018**, 140, 13392-13406		78
251	Title, Copyright, Foreword. *ACS Symposium Series*, **2018**, i-v	0.4	
250	Surfactant-Free Visible-Light-Controlled Emulsion Polymerization toward ABA-Type Amphiphilic Triblock Copolymers. *Macromolecules*, **2018**, 51, 7329-7337	5.5	7
249	Poly(allyl alcohol) Homo- and Block Polymers by Postpolymerization Reduction of an Activated Polyacrylamide. **2018**, 140, 11911-11915		22
248	Industrial development of reversible-deactivation radical polymerization: is the induction period over?. *Polymer Chemistry*, **2018**, 9, 4947-4967	4.9	110
247	Repurposing Biocatalysts to Control Radical Polymerizations. *ACS Macro Letters*, **2018**, 7, 1111-1119	6.6	35
246	USAXS analysis of concentration-dependent self-assembling of polymer-brush-modified nanoparticles in ionic liquid: [I] concentrated-brush regime. **2018**, 148, 124902		9
245	Acrylate-Selective Transesterification of Methacrylate/Acrylate Copolymers: Postfunctionalization with Common Acrylates and Alcohols. *ACS Macro Letters*, **2018**, 7, 997-1002	6.6	17
244	Reversible complexation mediated polymerization (RCMP)□olution polymerization of methyl methacrylate catalyzed by Bu4N+I□(BNI) with in-situ formed alkyl iodide initiator. **2018**, 5, 095310		1

243	Poly(vinyl chloride): current status and future perspectives via reversible deactivation radical polymerization methods. *Progress in Polymer Science*, **2018**, 87, 34-69	29.6	29
242	Atom Transfer Radical Polymerization (ATRP) Catalyzed by Visible Light-Absorbed Small Molecule Organic Semiconductors. **2018**, 39, e1800466		13
241	Dynamics of a Complex Multilayer Polymer Network: Mechanical Relaxation and Energy Transfer. **2018**, 10,		3
240	Pentablock Copolymer from Tetracomponent Monomer Mixture Using a Switchable Dizinc Catalyst. *Macromolecules*, **2018**, 51, 5346-5351	5.5	70
239	Intramolecular Folding or Intermolecular Self-Assembly of Amphiphilic Random Copolymers: On-Demand Control by Pendant Design. *Macromolecules*, **2018**, 51, 3738-3745	5.5	36
238	An evaluation of the impact of SG1 disproportionation and the addition of styrene in NMP of methyl methacrylate. **2018**, 64, 2545-2559		11
237	Design and synthesis of PEGylated amphiphilic block oligomers as membrane anchors for stable binding to lipid bilayer membranes. **2018**, 50, 787-797		5
236	Controlled and Efficient Polymerization of Conjugated Polar Alkenes by Lewis Pairs Based on Sterically Hindered Aryloxide-Substituted Alkylaluminumitle. **2018**, 23,		10
235	Aqueous Visible-Light RAFT Polymerizations and Applications. *ACS Symposium Series*, **2018**, 43-56	0.4	2
234	On the Use of Redox Initiation in Aqueous RAFT Polymerisation. *ACS Symposium Series*, **2018**, 57-79	0.4	3
233	Macromolecular Templates for Synthesis of Inorganic Nanoparticles. *ACS Symposium Series*, **2018**, 169-200	0.4	3
232	Living radical polymerization of hydrophobic monomers catalyzed by cyclometalated ruthenium(II) complexes: Improved control and formation of block co-polymers. *European Polymer Journal*, **2018**, 108, 171-181	5.2	3
231	Toward Butadiene-ATRP with Group 10 (Ni, Pd, Pt) Metal Complexes. *ACS Symposium Series*, **2018**, 205-225	0.4	5
230	Biomimetic Anchors for Antifouling and Antibacterial Polymeric Coatings. *ACS Symposium Series*, **2018**, 233-261	0.4	1
229	Polyhomologation and ATRP: A Perfect Partnership toward Unique Polyethylene-Based Architectures. *ACS Symposium Series*, **2018**, 1-24	0.4	
228	Fluorescent star ATRP initiators and fluorescent star poly(methyl methacrylate)s: Synthesis and photophysical properties. **2018**, 153, 139-149		8
227	Editors□Biographies. *ACS Symposium Series*, **2018**, 297-298	0.4	
226	monitoring of SI-ATRP throughout multiple reinitiations under flow by means of a quartz crystal microbalance. **2018**, 8, 20048-20055		8

225	Radical Cascade-Triggered Controlled Ring-Opening Polymerization of Macrocyclic Monomers. **2018**, 140, 10402-10406		21
224	Polymethacrylic Acid Shows Thermoresponsivity in an Organic Solvent. *Macromolecules*, **2019**, 52, 5995-6004	5.5	16
223	Switchable Reversible Addition–Fragmentation Chain Transfer (RAFT) Polymerization with the Assistance of Azobenzenes. *Angewandte Chemie*, **2019**, 131, 11571	3.6	0
222	Morphological Impact of Segment Dispersity in Lithium Salt-Doped Poly(styrene)/Poly(ethylene oxide) Triblock Polymers. *Macromolecules*, **2019**, 52, 5722-5734	5.5	9
221	One-Pot Synthesis of Hyperbranched and Star Polyketones by Palladium-Catalyzed Terpolymerization of 4-tert-Butylstyrene, Divinylbenzene, and Carbon Monoxide. *Macromolecules*, **2019**, 52, 5707-5721	5.5	4
220	FeBr2-Catalyzed Bulk ATRP Promoted by Simple Inorganic Salts. *Macromolecules*, **2019**, 52, 5366-5376	5.5	10
219	A cocktail of vitamins for aqueous RAFT polymerization in an open-to-air microtiter plate. *Polymer Chemistry*, **2019**, 10, 4643-4654	4.9	22
218	Living supramolecular polymerization based on reversible deactivation of a monomer by using a 'dummy' monomer. **2019**, 10, 6770-6776		25
217	Radical Alliances: Solutions and Opportunities for Organic Synthesis. **2019**, 102, e1900134		22
216	Screening of metal complex catalysts using bidentate Schiff base ligands for controlled cationic polymerization of vinyl ethers using in situ complexation method. *Polymer Chemistry*, **2019**, 10, 4209-4219	4.9	1
215	Effect of benzotriazolyl fragments on properties of thermoreactive benzotriazolylsuccinimides. **2019**, 320, 012046		
214	Molecular Technology for Synthesis of Versatile Copolymers via Multiple Polymerization Mechanisms. **2019**, 231-258		
213	Water Repellency of Bottlebrush Polymers Consisting of Monomer Units with a Long Alkyl Chain Synthesized by Ru-Catalyzed Living Radical Polymerization. **2019**, 1, 3422-3431		3
212	Impact of Catalyzed Radical Termination (CRT) and Reductive Radical Termination (RRT) in Metal-Mediated Radical Polymerization Processes. **2019**, 2019, 4489-4499		12
211	Photoinduced Organocatalyzed Atom Transfer Radical Polymerization Using Low ppm Catalyst Loading. *Macromolecules*, **2019**, 52, 747-754	5.5	44
210	Application of quantum chemical methods in polymer chemistry. **2019**, 38, 343-403		10
209	Tailoring polymer dispersity and shape of molecular weight distributions: methods and applications. **2019**, 10, 8724-8734		82
208	Polymerization of Alkyl Diazoacetates Initiated by Pd(Naphthoquinone)/Borate Systems: Dual Role of Naphthoquinones as Oxidant and Anionic Ligand for Generating Active Pd(II) Species. *Macromolecules*, **2019**, 52, 6976-6987	5.5	9

207	Carbohydrate-based nanocarriers and their application to target macrophages and deliver antimicrobial agents. **2019**, 151-152, 94-129		39
206	Cycloalkyl-substituted salicylaldimine-nickel(II) complexes as mediators in controlled radical polymerization of vinyl acetate. **2019**, 56, 1132-1140		4
205	Controlled radical depolymerization of chlorine-capped PMMA via reversible activation of the terminal group by ruthenium catalyst. *European Polymer Journal*, **2019**, 120, 109181	5.2	16
204	Tunable biomaterials from synthetic, sequence-controlled polymers. **2019**, 7, 490-505		37
203	Stimuli-Responsive Molecular and Macromolecular Systems Controlled by Rotaxane Molecular Switches. *Bulletin of the Chemical Society of Japan*, **2019**, 92, 409-426	5.1	28
202	Chlorophyll derivatives as catalysts and comonomers for atom transfer radical polymerizations. *Polymer Chemistry*, **2019**, 10, 125-135	4.9	8
201	Impact of Organometallic Intermediates on Copper-Catalyzed Atom Transfer Radical Polymerization. *Macromolecules*, **2019**, 52, 4079-4090	5.5	27
200	Synthesis of Poly(N-vinylamide)s and Poly(vinylamine)s and Their Block Copolymers by Organotellurium-Mediated Radical Polymerization. *Angewandte Chemie*, **2019**, 131, 7187-7190	3.6	
199	The dawn of polymer chemistry based on multicomponent reactions. **2019**, 51, 945-953		40
198	Equilibrium Model for Supramolecular Copolymerizations. **2019**, 123, 6627-6642		21
197	Polystyrene with Persistently Enhanced Fluorescence: Photo-Induced Atom Transfer Radical Polymerization Using a Pyrene-Based Initiator. **2019**, 3, 1153-1161		3
196	Lactone Synthesis by Enantioselective Orthogonal Tandem Catalysis. *Angewandte Chemie*, **2019**, 131, 9585-9590	3.6	5
195	Switchable Reversible Addition-Fragmentation Chain Transfer (RAFT) Polymerization with the Assistance of Azobenzenes. *Angewandte Chemie - International Edition*, **2019**, 58, 11449-11453	16.4	22
194	Programmable High-Throughput Platform for the Rapid and Scalable Synthesis of Polyester and Polycarbonate Libraries. **2019**, 141, 8921-8927		45
193	A versatile approach for the preparation of end-functional polymers and block copolymers by stable radical exchange reactions. **2019**, 57, 2387-2395		0
192	Lactone Synthesis by Enantioselective Orthogonal Tandem Catalysis. *Angewandte Chemie - International Edition*, **2019**, 58, 9485-9490	16.4	10
191	L-menthol-based initiators for atom transfer radical polymerization of styrene. **2019**, 136, 47964		3
190	Amphiphilic Poly[poly(ethylene glycol) methacrylate]s with OH Groups in the PEG Side Chains for Controlling Solution/Rheological Properties and toward Bioapplication.. **2019**, 2, 1920-1930		4

189	Heterogeneously Catalyzed Fenton-Reversible Addition–Fragmentation Chain Transfer Polymerization in the Presence of Air. *Macromolecules*, **2019**, 52, 3278-3287	5.5	26
188	Construction of Sequence-Regulated Vinyl Copolymers via Iterative Single Vinyl Monomer Additions and Subsequent Metal-Catalyzed Step-Growth Radical Polymerization. *Macromolecules*, **2019**, 52, 3327-3341	5.5	15
187	Renewable Terpene Derivative as a Biosourced Elastomeric Building Block in the Design of Functional Acrylic Copolymers. *Biomacromolecules*, **2019**, 20, 2241-2251	6.9	25
186	Reductive Termination of Cyanoisopropyl Radicals by Copper(I) Complexes and Proton Donors: Organometallic Intermediates or Coupled Proton-Electron Transfer?. **2019**, 58, 6445-6457		22
185	Step-Growth Copolymerization Between an Immobilized Monomer and a Mobile Monomer in Metal–Organic Frameworks. *Angewandte Chemie*, **2019**, 131, 8102-8107	3.6	
184	Structural design of vinyl polymer hydrogels utilizing precision radical polymerization. **2019**, 51, 803-812		11
183	Bromoalkyl ATRP initiator activation by inorganic salts: experiments and computations. *Polymer Chemistry*, **2019**, 10, 2376-2386	4.9	16
182	Synthesis of sequence-controlled polymers with pendent clickable or hydrophilic groups via latent monomer strategy. **2019**, 138, 96-103		10
181	Tetradentate schiff base ligand/MCln initiating systems for the controlled cationic polymerization of isobutyl vinyl ether: Effects of the ligand framework. **2019**, 57, 989-996		3
180	Examining derivatives of quinacridone, diketopyrrolopyrrole and indigo as the visible-light organic photocatalysts for metal-free atom transfer radical polymerization. **2019**, 165, 223-230		16
179	Synthesis of Transparent and Heat-Resistant Acrylic Block Copolymers by Living Radical Polymerization. **2019**, 76, 113-140		0
178	Synthesis of Poly(N-vinylamide)s and Poly(vinylamine)s and Their Block Copolymers by Organotellurium-Mediated Radical Polymerization. *Angewandte Chemie - International Edition*, **2019**, 58, 7113-7116	16.4	6
177	Step-Growth Copolymerization Between an Immobilized Monomer and a Mobile Monomer in Metal-Organic Frameworks. *Angewandte Chemie - International Edition*, **2019**, 58, 8018-8023	16.4	13
176	The effects of catalyst and deactivator species in atom transfer radical polymerization of n-butyl methacrylate. **2019**, 28, 361-370		1
175	Recent progress on polydispersity effects on block copolymer phase behavior. **2019**, 59, 561-587		12
174	Synthesis of block/graft copolymers based on vinyl benzyl chloride via reversible addition fragmentation chain transfer (RAFT) polymerization using the carboxylic acid functionalized Trithiocarbonate. **2019**, 26, 1		12
173	Vanadyl tetrabromoporphyrin: synthesis, crystal structure and its use as an efficient and selective catalyst for olefin epoxidation in aqueous medium.. **2019**, 9, 10405-10413		8
172	Protecting Group-Free Synthesis of Glycopolymer-Type Amphiphilic Macromonomers and Their Use for the Preparation of Carbohydrate-Decorated Polymer Particles. **2019**, 9,		2

171	Polyacrylonitrile-derived nanostructured carbon materials. *Progress in Polymer Science*, **2019**, 92, 89-134	29.6	50
170	Synthesis, Characterization and Applications of Polyolefin Based Eco-Friendly Polymer Composites. **2019**, 65-103		0
169	Nonmigratory Poly(vinyl chloride)-block-polycaprolactone Plasticizers and Compatibilizers Prepared by Sequential RAFT and Ring-Opening Polymerization (RAFT-T -ROP). *Macromolecules*, **2019**, 52, 1746-1756	5.5	21
168	TEMPO in Chemical Transformations: From Homogeneous to Heterogeneous. **2019**, 9, 2777-2830		78
167	Synthesis of Water-soluble Bottlebrush Polymer with Hydrophobic Core and Hydrophilic Shell as Cylindrical Host for Guest Uptake. **2019**, 48, 1410-1413		5
166	BINOLs as visible light photocatalysts for metal-free atom transfer radical polymerization. *Polymer Chemistry*, **2019**, 10, 6662-6668	4.9	9
165	Universal Soluble Polymer Supports with Precisely Controlled Loading Capacity for Sequence-Defined Oligomer Synthesis. **2019**, 57, 403-410		3
164	Living cationic polymerization of a vinyl ether with an unprotected pendant alkynyl group and their use for the protecting group-free synthesis of macromonomer-type glycopolymers via CuAAC with maltosyl azides. **2019**, 57, 681-688		2
163	Comb Polymers with Triazole Linkages under Thermal and Mechanical Stress. *Macromolecules*, **2019** , 52, 420-431	5.5	2
162	Nitroxide mediated copolymerization of acrylates, methacrylates and styrene: The importance of side reactions in the polymerization of acrylates. *European Polymer Journal*, **2019**, 110, 319-329	5.2	14
161	Smart Catalysis with thermoresponsive ruthenium catalysts for miniemulsion ru-mediated reversible deactivation radical polymerization cocatalyzed by smart iron cocatalysts. **2019**, 57, 305-312		2
160	Controlled Radical Copolymerization of Cinnamic Derivatives as Renewable Vinyl Monomers with Both Acrylic and Styrenic Substituents: Reactivity, Regioselectivity, Properties, and Functions. *Biomacromolecules*, **2019**, 20, 192-203	6.9	23
159	Degenerative chain-transfer process: Controlling all chain-growth polymerizations and enabling novel monomer sequences. **2019**, 57, 243-254		19
158	Amphiphilic fluorous random copolymer self-assembly for encapsulation of a fluorinated agrochemical. **2019**, 57, 352-359		8
157	Synthesis of block copolymers through umpolung or treatment of propagating end of living cationic polytetrahydrofuran. **2019**, 76, 3355-3370		
156	Making the best of it: nitroxide-mediated polymerization of methacrylates via the copolymerization approach with functional styrenics. *Polymer Chemistry*, **2020**, 11, 593-604	4.9	7
155	Iodine-mediated photoATRP in aqueous media with oxygen tolerance. *Polymer Chemistry*, **2020**, 11, 843-848	4.9	14
154	On the nitroxide mediated polymerization of methacrylates derived from bio-sourced terpenes in miniemulsion, a step towards sustainable products. *Polymer Chemistry*, **2020**, 11, 1151-1160	4.9	17

153	Impact of the RAFT/MADIX agent on protonated diallylammonium monomer cyclopolymerization with efficient chain transfer to monomer. *European Polymer Journal*, **2020**, 122, 109363	5.2	5
152	Ferrocene-integrated conjugated microporous polymer nanosheets: Active and regenerative catalysts for photomediated controlled radical polymerization. **2020**, 18, 100507		4
151	Dimethyl Dihydroacridines as Photocatalysts in Organocatalyzed Atom Transfer Radical Polymerization of Acrylate Monomers. *Angewandte Chemie - International Edition*, **2020**, 59, 3209-3217	16.4	57
150	Two birds one stone: Facile preparation of AIE-active fluorescent polymeric nanoparticles via self-catalyzed photo-mediated polymerization. **2020**, 508, 144799		6
149	Discovery of the RAFT/MADIX Process: Mechanistic Insights and Polymer Chemistry Implications. *Macromolecules*, **2020**, 53, 8144-8159	5.5	14
148	Surface Engineering with Polymer Brush Photolithography. **2020**, 41, e2000177		20
147	Transition Metal-Catalyzed Organic Reactions under Visible Light: Recent Developments and Future Perspectives. **2020**, 10, 9170-9196		92
146	Alternating Ring-Opening Metathesis Polymerization Provides Easy Access to Functional and Fully Degradable Polymers. *Macromolecules*, **2020**, 53, 5857-5868	5.5	11
145	Triazole-coumarin centered star-shaped polymer: Structural characterizations and electrical properties of graphene composites. *Journal of Molecular Structure*, **2020**, 1222, 128926	3.4	1
144	Winning Strategy for Iron-Based ATRP Using In Situ Generated Iodine as a Regulator. **2020**, 10, 14127-14134		7
143	Synthesis of Poly(2-Acrylamido-2-Methylpropane Sulfonic Acid) and its Block Copolymers with Methyl Methacrylate and 2-Hydroxyethyl Methacrylate by Quasiliving Radical Polymerization Catalyzed by a Cyclometalated Ruthenium(II) Complex. **2020**, 12,		4
142	Amino pyridine iron(II) complexes: Characterization and catalytic application for atom transfer radical polymerization and catalytic chain transfer. **2020**, 924, 121456		1
141	Macromolecular Engineering by Applying Concurrent Reactions with ATRP. **2020**, 12,		4
140	Photoorganocatalyzed Divergent Reversible-Deactivation Radical Polymerization towards Linear and Branched Fluoropolymers. *Angewandte Chemie - International Edition*, **2020**, 59, 21470-21474	16.4	26
139	Photoorganocatalyzed Divergent Reversible-Deactivation Radical Polymerization towards Linear and Branched Fluoropolymers. *Angewandte Chemie*, **2020**, 132, 21654-21658	3.6	6
138	Aluminum Tralen Complex Meditated Reversible-Deactivation Radical Polymerization of Vinyl Acetate. *ACS Macro Letters*, **2020**, 9, 1423-1428	6.6	1
137	Development of Environmentally Friendly Atom Transfer Radical Polymerization. **2020**, 12,		4
136	Metal-Free ATRP Catalyzed by Visible Light in Continuous Flow. **2020**, 8, 740		7

135	Experimental Investigation of Methyl Methacrylate in Stirred Batch Emulsion Reactor: AGET ATRP Approach. **2020**, 13,		2
134	Homogeneous and Heterogeneous Gold Catalysis for Materials Science. *Chemical Reviews*, **2021**, 121, 9113-9163	68.1	48
133	Developments in the Components of Metal-Free Photoinitiated Organocatalyzed-Atom Transfer Radical Polymerization (O-ATRP). **2020**, 5, 14884-14899		4
132	Cobalt(II) complexes of diimine derived from cycloalkylamines as controlling agents for organometallic mediated radical polymerization of vinyl acetate. **2020**, 192, 114870		3
131	Controlled Self-Assembly of Amphiphilic Random Copolymers into Folded Micelles and Nanostructure Materials. **2020**, 69, 529-538		15
130	Versatile Approach for Preparing PVC-Based Mikto-Arm Star Additives Based on RAFT Polymerization. *Macromolecules*, **2020**, 53, 4465-4479	5.5	7
129	Photoorganocatalyzed Reversible-Deactivation Alternating Copolymerization of Chlorotrifluoroethylene and Vinyl Ethers under Ambient Conditions: Facile Access to Main-Chain Fluorinated Copolymers. **2020**, 142, 7108-7115		47
128	Transmission electron microscopy analysis of multiblock ethylene/1-octene copolymers. **2020**, 193, 122347		3
127	The big effect of a small change: formation of CuO nanoparticles instead of covalently bound Cu(ii) over functionalized mesoporous silica and its impact on catalytic efficiency. **2020**, 49, 10138-10155		1
126	Recent advances in applications of vinyl ether monomers for precise synthesis of custom-tailored polymers. *European Polymer Journal*, **2020**, 136, 109872	5.2	15
125	Visible-light-induced controlled radical polymerization of methacrylates mediated by zirconium-porphryinic metal organic frameworks. *New Journal of Chemistry*, **2020**, 44, 5235-5242	3.6	9
124	Switchable Polymer Materials Controlled by Rotaxane Macromolecular Switches. **2020**, 6, 129-143		36
123	Influence of HMTA ligand in MMA AGET ATRP emulsion polymerization. **2020**, 137, 49128		4
122	Can We Push Rapid Reversible Deactivation Radical Polymerizations toward Immortality?. *ACS Macro Letters*, **2020**, 9, 190-196	6.6	12
121	Effects of solvents, additives, and allyl ligand structures on the polymerization behavior of diazoacetates initiated by allylPd complexes. *Polymer Chemistry*, **2020**, 11, 1774-1784	4.9	5
120	Organocatalyzed controlled radical polymerization with alkyl bromide initiator via in situ halogen exchange under thermal condition. **2020**, 189, 122201		3
119	One-Step Ring Opening Metathesis Block-Like Copolymers and their Compositional Analysis by a Novel Retardation Technique. *Angewandte Chemie - International Edition*, **2020**, 59, 13597-13601	16.4	12
118	Using the dynamic behavior of macrocyclic monomers with a bis(hindered amino)disulfide linker for the preparation of end-functionalized polymers. *Polymer Chemistry*, **2020**, 11, 3557-3563	4.9	7

117	Poly (Ethylene Oxide)-Based Block Copolymer Electrolytes Formed via Ligand-Free Iron-Mediated Atom Transfer Radical Polymerization. **2020**, 12,		1
116	Tacticity dependence of single chain polymer folding. *Polymer Chemistry*, **2020**, 11, 3439-3445	4.9	3
115	Two-Step Divergent Synthesis of Monodisperse and Ultra-Long Bottlebrush Polymers from an Easily Purifiable ROMP Monomer. *Angewandte Chemie*, **2021**, 133, 1552-1558	3.6	
114	A Synthetic Method for Site-Specific Functionalized Polypeptides: Metal-Free, Highly Active, and Selective at Room Temperature. *Angewandte Chemie*, **2021**, 133, 902-908	3.6	2
113	Two-Step Divergent Synthesis of Monodisperse and Ultra-Long Bottlebrush Polymers from an Easily Purifiable ROMP Monomer. *Angewandte Chemie - International Edition*, **2021**, 60, 1528-1534	16.4	9
112	Porphyrinic Zirconium Metal Organic Frameworks (MOFs) as Heterogeneous Photocatalysts for PET-RAFT Polymerization and Stereolithography. *Angewandte Chemie*, **2021**, 133, 5549-5556	3.6	11
111	Porphyrinic Zirconium Metal-Organic Frameworks (MOFs) as Heterogeneous Photocatalysts for PET-RAFT Polymerization and Stereolithography. *Angewandte Chemie - International Edition*, **2021**, 60, 5489-5496	16.4	51
110	Synthesis of ABA-type double hydrophilic amphiphilic PU-based block copolymers of poly(N-Vinylpyrrolidone) and poly(N-isopropylacrylamide) via click chemistry. **2021**, 58, 192-205		4
109	Construction methodologies and sequence-oriented properties of sequence-controlled oligomers/polymers generated via radical polymerization. **2021**, 53, 239-248		7
108	A Synthetic Method for Site-Specific Functionalized Polypeptides: Metal-Free, Highly Active, and Selective at Room Temperature. *Angewandte Chemie - International Edition*, **2021**, 60, 889-895	16.4	7
107	A photo thermal dual-regulated latent monomer strategy for sequence control of polymers. *Polymer Chemistry*, **2021**, 12, 4996-5002	4.9	
106	One-pot synthesis for gradient copolymers concurrent tandem living radical polymerization: mild and selective transesterification of methyl acrylate through Al(acac) with common alcohols.. **2021**, 11, 26049-26055		
105	Metal Complexes as Catalysts/Moderators for Polymerization Reactions. **2021**, 410-464		0
104	Effect of nitrogen type on carbon dot photocatalysts for visible-light-induced atom transfer radical polymerization. *Polymer Chemistry*, **2021**, 12, 3060-3066	4.9	5
103	Reversible-deactivation radical polymerization of vinyl acetate mediated by tralen, an organomediator. *Polymer Chemistry*, **2021**, 12, 5159-5167	4.9	1
102	ATRP-based synthesis of a pH-sensitive amphiphilic block polymer and its self-assembled micelles with hollow mesoporous silica as DOX carriers for controlled drug release.. **2021**, 11, 29986-29996		1
101	Cu-Catalyzed Atom Transfer Radical Polymerization in the Presence of Liquid Metal Micro/Nanodroplets. *Macromolecules*, **2021**, 54, 1631-1638	5.5	9
100	Recent Development in Polymer Reactions for Overcoming Synthetic Limitations in Chain-growth Polymerization. **2021**, 50, 411-417		3

99	Elementary Reactions in Organometallic Chemistry. **2021**, 51-123		
98	Kinetically Controlled Supramolecular Polymerization. **2021**, 131-164		
97	Copper on chitosan-modified cellulose filter paper as an efficient dip catalyst for ATRP of MMA. **2021**, 11, 8257		2
96	Unusual Cross-Linked Polystyrene by Copper-Catalyzed ARGET ATRP Using a Bifunctional Initiator and No Cross-Linking Agent. **2021**, 29, 280-288		5
95	Anisotropic and Self-Healing Copolymer with Multiresponsive Capability via Recyclable Alloy-Mediated RDRP. **2021**, 42, e2100096		2
94	Recent Advances in the Synthesis of Polymer-Grafted Low-K and High-K Nanoparticles for Dielectric and Electronic Applications. **2021**, 26,		3
93	Microwave-assisted RAFT polymerization of N-(2-hydroxypropyl) methacrylamide and its relevant copolymers. **2021**, 162, 104875		1
92	Study on preparation and properties of PVC/NBR/PVC-g-PMMA composite film. **2021**, 58, 636-641		0
91	Metal-free catalytic activation and borylation of the □H bond of 1-methyl pyrrole using adamantane-derived aminoborane frustrated Lewis pairs: A density functional theory study. **2021**, 34, e4250		2
90	□All-PVC□Flexible Poly(vinyl Chloride): Nonmigratory Star-Poly(vinyl Chloride) as Plasticizers for PVC by RAFT Polymerization. *Macromolecules*, **2021**, 54, 5022-5032	5.5	2
89	Organo-Cobalt Complexes in Reversible-Deactivation Radical Polymerization. **2021**,		0
88	Ruthenium Complexes of 5-MeC2B9-Carborane Ligand: Synthesis and Application in Polymerization Catalysis. **2021**, 498, 97-103		3
87	Photocontrolled RAFT Polymerization Catalyzed by Conjugated Polymers under Aerobic Aqueous Conditions.. *ACS Macro Letters*, **2021**, 10, 996-1001	6.6	3
86	Protection-free one-pot synthesis of alcohol end-functionalized poly(3-hexylthiophene).		0
85	Recent Advances in Nonprecious Metal Catalysis. **2021**, 25, 1802-1815		4
84	l-Histidine-Derived Smart Antifouling Biohybrid with Multistimuli Responsivity. *Biomacromolecules*, **2021**, 22, 3941-3949	6.9	4
83	Functionalization Methodology for Synthesis of Silane-End-Functionalized Linear and Star Poly(aryl isocyanide)s by Combination of Cationic Polymerization and Hydrosilylation Reaction. *Macromolecules*,	5.5	0
82	Recent advances on perylene-based photoinitiators of polymerization. *European Polymer Journal*, **2021**, 159, 110734	5.2	8

81	Low modification of PETase enhances its activity toward degrading PET: Effect of conjugate monomer property. **2021**, 175, 108151		3
80	Interfacing non-enzymatic catalysis with living microorganisms. **2021**, 2, 1073-1083		6
79	Facile access to functional polyacrylates with dual stimuli response and tunable surface hydrophobicity. *Polymer Chemistry*, **2021**, 12, 3042-3051	4.9	4
78	Manganese(II) Schiff-base-mediated reversible deactivation controlled radical polymerization of vinyl acetate. *New Journal of Chemistry*, **2021**, 45, 10109-10117	3.6	1
77	Carbohydrate Modified Non-Metallic Nanomaterials and Their Application Against Infectious Diseases. **2021**, 406-432		
76	Synthesis of Glycopolymers and Recent Developments. 137-173		3
75	Dimethyl Dihydroacridines as Photocatalysts in Organocatalyzed Atom Transfer Radical Polymerization of Acrylate Monomers. *Angewandte Chemie*, **2020**, 132, 3235-3243	3.6	13
74	One-Step Ring Opening Metathesis Block-Like Copolymers and their Compositional Analysis by a Novel Retardation Technique. *Angewandte Chemie*, **2020**, 132, 13699-13703	3.6	2
73	Encyclopedia of Polymeric Nanomaterials. **2014**, 1-15		1
72	Simulation studies of the discrete semi-batch RAFT-mediated polymerization of styrene using a RAFT agent with relatively poor leaving group. *European Polymer Journal*, **2017**, 95, 596-605	5.2	3
71	Information-Based Design of Polymeric Drug Formulation Additives. *Biomacromolecules*, **2021**, 22, 213-221	6.1	0
70	Influence of Grafting Density and Distribution on Material Properties Using Well-Defined Alkyl Functional Poly(Styrene-co-Maleic Anhydride) Architectures Synthesized by RAFT. *Macromolecules*, **2019**, 52, 1469-1478	5.5	18
69	Facilely Recyclable Cu(II) Macrocomplex with Thermoregulated Poly(ionic liquid) Macroligand: Serving as a Highly Efficient Atom Transfer Radical Polymerization Catalyst. *ACS Sustainable Chemistry and Engineering*, **2016**, 4, 7066-7073	8.3	15
68	. *ACS Symposium Series*, **2018**,	0.4	2
67	CHAPTER 7:Multicomponent Polymerization Mediated by Click Chemistry. *RSC Polymer Chemistry Series*, **2018**, 207-243	1.3	3
66	Controlled Radical Polymerization. **2017**, 161-177		1
65	Photoactivation of Organotellurium Compounds in Precision Polymer Synthesis: Controlled Radical Polymerization and Radical Coupling Reactions. *Bulletin of the Chemical Society of Japan*, **2020**, 93, 287-298	5.1	20
64	Fundamentals of reversible addition-fragmentation chain transfer (RAFT). *Chemistry Teacher International*, **2021**, 3, 3-17	1	1

63	Controlled Polymer Synthesis in Coordination Nanochannels. *Yuki Gosei Kagaku Kyokaishi/Journal of Synthetic Organic Chemistry*, **2012**, 70, 324-330	0.2	1
62	Imidazole based dual photo/thermal initiators for highly efficient radical polymerization under air with a metal-free approach. *Polymer Chemistry*, **2021**, 12, 6386-6391	4.9	3
61	Non-uniform Photoinduced Unfolding of Supramolecular Polymers Leading to Topological Block Nanofibers. *Angewandte Chemie*,	3.6	
60	Non-uniform Photoinduced Unfolding of Supramolecular Polymers Leading to Topological Block Nanofibers. *Angewandte Chemie - International Edition*, **2021**, 60, 26986	16.4	2
59	Advanced Polymer Materials Synthesized by New Living Radical Polymerization Method. *Journal of the Japan Society of Colour Material*, **2010**, 83, 295-299	0	
58	Chain-Growth Copolymerization (Overview). **2013**, 1-5		
57	Concept and State-of-the-Art. *Springer Theses*, **2013**, 23-41	0.1	
56	Introduction. *Springer Theses*, **2014**, 1-5	0.1	
55	General Introduction. *Springer Theses*, **2014**, 1-25	0.1	
54	Supramolecular ABA Triblock Copolymers. *Springer Theses*, **2014**, 73-94	0.1	
53	Theoretical Background and Literature Overview. *Springer Theses*, **2014**, 7-44	0.1	
52	Facile Synthesis of Thermoresponsive Block Copolymers Bearing Poly(N,N-diethylacrylamide) Segment Through Group Transfer Polymerization. *Springer Theses*, **2014**, 61-77	0.1	
51	Chapter 3:Synthesis of Non-natural Polymers with Controlled Primary Structures. *RSC Polymer Chemistry Series*, **2016**, 66-106	1.3	
50	Synthesis of butyl methacrylate copolymers with the use of compensate polymerization method. *Bulletin of the South Ural State University Series Chemistry*, **2016**, 8, 20-25	1.8	2
49	Basic Science of Rubber. **2018**, 19-53		1
48	Kinetics of MMA Atom Transfer Radical Polymerization Initiated by Reducing Agent in Stirred Batch Emulsion Reactor. *Macromolecular Reaction Engineering*, **2021**, 15, 2000052	1.5	3
47	living polymerization.		
46	Synthesis and study of oligobenzotriazolylimides. *Izvesti Vuzov: Prikladna Himi Biotehnologi*, **2020**, 10, 376-385	0.6	

45	Recent advances in the synthesis of zirconium complexes and their catalytic applications. *Journal of Molecular Structure*, **2021**, 131925	3.4	1
44	Precision synthesis of linear oligorotaxanes and polyrotaxanes achieving well-defined positions and numbers of cyclic components on the axle.. *Chemical Communications*, **2021**,	5.8	1
43	Chapter 10. Supramolecular Membranes for Liquid Separation. *Chemistry in the Environment*, **2021**, 232-255		
42	Photo-induced Controlled/Living Polymerizations.. *Angewandte Chemie - International Edition*, **2022**,	16.4	6
41	Photo-induced Controlled/Living Polymerizations. *Angewandte Chemie*,	3.6	0
40	Balance of the steric hindrance and solubility of alkoxy ligands for ultrahigh-activity molybdenum-based butadiene coordination polymerization. *Polymer Chemistry*, **2022**, 13, 1712-1718	4.9	0
39	Reversible complexation mediated polymerization: an emerging type of organocatalytically controlled radical polymerization. *Polymer Chemistry*,	4.9	2
38	An amino acid-derived ABCBA-type antifouling biohybrid with multi-stimuli responsivity and contaminant removal capability. *Polymer Chemistry*, **2022**, 13, 1960-1969	4.9	1
37	Comparable Studies on Nanoscale Antibacterial Polymer Coatings Based on Different Coating Procedures.. *Nanomaterials*, **2022**, 12,	5.4	0
36	Materials Design of Highly Branched Bottlebrush Polymers at the Intersection of Modeling, Synthesis, Processing, and Characterization. *Chemistry of Materials*, **2022**, 34, 1990-2024	9.6	3
35	Living Covalent-Anionic-Radical Polymerization via a Barbier Strategy.. *ACS Macro Letters*, **2022**, 11, 354-361	5.6	1
34	Macromolecular Engineering by Atom Transfer Radical Polymerization. 1-51		
33	Native Chemical Ligation: Ultrafast Synthesis of Block Copolymers. *Macromolecules*,	5.5	1
32	Reversible Deactivation Radical Polymerization: RAFT. 1-61		
31	Cytochrome C catalyzed oxygen tolerant atom-transfer radical polymerization. *Bioresources and Bioprocessing*, **2022**, 9,	5.2	1
30	Living cell-mediated in-situ polymerization for biomedical applications. *Progress in Polymer Science*, **2022**, 129, 101545	29.6	0
29	Compartmentalized Polymers for Catalysis in Aqueous Media. **2022**, 489-506		1
28	Data_Sheet_1.PDF. **2020**,		

27	Precision Polymer Synthesis by Controlled Radical Polymerization: Fusing the progress from Polymer Chemistry and Reaction Engineering. *Progress in Polymer Science*, **2022**, 101555	29.6	4
26	Amphiphilic block copolymers: From synthesis including living polymerization methods to applications in drug delivery. *European Polymer Journal*, **2022**, 172, 111224	5.2	2
25	Polymer types regulation strategy toward the synthesis of carbonized polymer dots with excitation-wavelength dependent or independent fluorescence. *Chinese Chemical Letters*, **2022**,	8.1	0
24	New advances in olefin homo and copolymerization using neutral, single component palladium/nickel complexes ligated by a phosphine-sulfonate. *Journal of Catalysis*, **2022**,	7.3	0
23	Methoxy-substituted carbazole-based polymers obtained by RAFT polymerization for solution-processable organic light-emitting devices. *European Polymer Journal*, **2022**, 111323	5.2	1
22	Synthesis Methodology of End-Functionalized Poly(quinolylene-2,3-methylene)s: Living Cyclocopolymerization Using Aryl Palladium Initiators Conveniently Prepared from Versatile Aryl Halide. *Macromolecules*,	5.5	0
21	Semi-Crystalline Rubber as a Light-Responsive, Programmable, Resilient Robotic Material. 2206939		
20	Photoinduced 3D Printing through a Combination of Cationic and Radical RAFT Polymerization. **2022**, 55, 7181-7192		4
19	Unnatural biopolymers of saccharides and proteins conjugated with poly(2-oxazoline) and methacrylate-based polymers: from polymer design to bioapplication.		
18	Recent advances in the self-assembly of sparsely grafted amphiphilic copolymers in aqueous solution.		0
17	A-la-carte surface functionalization of organic materials via the combination of radiation-induced graft polymerization and multi-component reactions.		0
16	Main group metal polymerisation catalysts. **2022**, 51, 8793-8814		0
15	Recent advances in transition metal-catalyzed reactions of chloroquinoxalines: Applications in bioorganic chemistry. **2022**, 129, 106195		0
14	Glycidyl Cinnamate: Copolymerization with Glycidyl Ethers, in-situ NMR Kinetics and Photocrosslinking. 2200366		0
13	What is a cross-coupling? An argument for a universal definition. **2023**, 130, 133176		0
12	Photocontrolled Radical Polymerization of Methacrylate Monomers Mediated by Systems Based on Aryl Derivatives of Phenothiazine. **2022**, 64, 590-597		0
11	Turbo-Grignard Reagent Mediated Polymerization of Styrene under Mild Conditions Capable of Low and Reactive Hydrogen Compatibility. **2022**, 55, 10422-10429		0
10	Recent Advances and Challenges in Barbier Polymerization.		0

9	Visible light-induced metal-free atom transfer radical (co)polymerization of maleimides using commercial organocatalysts.	0
8	Precision of Architecture-Controlled Bottlebrush Polymer Synthesis: A Monte Carlo Analysis. **2022**, 55, 10255-10263	0
7	Chalcogenide-Doped Anthracenes as Organophotocatalysts for Metal-Free Atom Transfer Radical Polymerization. 2200382	0
6	Facile grafting modification of main-chain-type semi-fluorinated alternating fluoropolymers via simultaneous CuAAC reaction and ATRP in one pot at ambient temperature.	0
5	Super-Grignard reagents (R2Mg□LiCl) mediated covalent-anionic-radical polymerization capable of low □and reactive hydrogen compatibility. **2023**, 108167	0
4	Solid-Supported Catalysts for Organic Functional Group Transformations. **2023**, 12,	0
3	Radical Polymerization of Methylene Heterocyclic Compounds: Functional Polymer Synthesis and Applications. 1-47	0
2	Proximity-Driven Synergic Copolymerization of Ethylene and Polar Monomers. **2023**, 56, 2476-2483	0
1	Precise Synthesis of Sequence-Controlled Oxygen-Rich Multiblock Copolymers via Reversible Carboxylation of a Commercial Salen-Mn(III) Catalyst. **2023**, 56, 2370-2378	0