Cyrille A Boyer

List of Publications by Citations

362 papers	24,686 citations	89 h-index	141 g-index
393 ext. papers	28,278 ext. citations	8.3 avg, IF	7.77 L-index

#	Paper	IF	Citations
362	Bioapplications of RAFT polymerization. *Chemical Reviews*, **2009**, 109, 5402-36	68.1	820
361	A robust and versatile photoinduced living polymerization of conjugated and unconjugated monomers and its oxygen tolerance. *Journal of the American Chemical Society*, **2014**, 136, 5508-19	16.4	629
360	Star Polymers. *Chemical Reviews*, **2016**, 116, 6743-836	68.1	494
359	Photocatalysis in organic and polymer synthesis. *Chemical Society Reviews*, **2016**, 45, 6165-6212	58.5	463
358	Use of iodocompounds in radical polymerization. *Chemical Reviews*, **2006**, 106, 3936-62	68.1	416
357	The design and utility of polymer-stabilized iron-oxide nanoparticles for nanomedicine applications. *NPG Asia Materials*, **2010**, 2, 23-30	10.3	369
356	Well-defined protein-polymer conjugates via in situ RAFT polymerization. *Journal of the American Chemical Society*, **2007**, 129, 7145-54	16.4	368
355	Exploiting Metalloporphyrins for Selective Living Radical Polymerization Tunable over Visible Wavelengths. *Journal of the American Chemical Society*, **2015**, 137, 9174-85	16.4	351
354	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
353	Organo-photocatalysts for photoinduced electron transfer-reversible addition–fragmentation chain transfer (PET-RAFT) polymerization. *Polymer Chemistry*, **2015**, 6, 5615-5624	4.9	292
352	High-order multiblock copolymers via iterative Cu(0)-mediated radical polymerizations (SET-LRP): toward biological precision. *Journal of the American Chemical Society*, **2011**, 133, 11128-31	16.4	280
351	Building nanostructures using RAFT polymerization. *Journal of Polymer Science Part A*, **2011**, 49, 551-595	2.5	278
350	Seeing the Light: Advancing Materials Chemistry through Photopolymerization. *Angewandte Chemie - International Edition*, **2019**, 58, 5170-5189	16.4	259
349	Polymerization-Induced Self-Assembly (PISA) – control over the morphology of nanoparticles for drug delivery applications. *Polymer Chemistry*, **2014**, 5, 350-355	4.9	243
348	Emerging Trends in Polymerization-Induced Self-Assembly. *ACS Macro Letters*, **2019**, 8, 1029-1054	6.6	237
347	Oxygen Tolerance Study of Photoinduced Electron Transfer–Reversible Addition–Fragmentation Chain Transfer (PET-RAFT) Polymerization Mediated by Ru(bpy)3Cl2. *Macromolecules*, **2014**, 47, 4217-4229	5.5	235
346	Photoinitiated Polymerization-Induced Self-Assembly (Photo-PISA): New Insights and Opportunities. *Advanced Science*, **2017**, 4, 1700137	13.6	234

345	Up in the air: oxygen tolerance in controlled/living radical polymerisation. *Chemical Society Reviews*, **2018**, 47, 4357-4387	58.5	234
344	Light-Regulated Polymerization under Near-Infrared/Far-Red Irradiation Catalyzed by Bacteriochlorophyll a. *Angewandte Chemie - International Edition*, **2016**, 55, 1036-40	16.4	234
343	Pair correlation microscopy reveals the role of nanoparticle shape in intracellular transport and site of drug release. *Nature Nanotechnology*, **2017**, 12, 81-89	28.7	226
342	Reversible-deactivation radical polymerization (Controlled/living radical polymerization): From discovery to materials design and applications. *Progress in Polymer Science*, **2020**, 111, 101311	29.6	223
341	Modification of RAFT-polymers via thiol-ene reactions: A general route to functional polymers and new architectures. *Journal of Polymer Science Part A*, **2009**, 47, 3773-3794	2.5	214
340	Polymerization-Induced Self-Assembly Using Visible Light Mediated Photoinduced Electron Transfer Reversible Addition Fragmentation Chain Transfer Polymerization. *ACS Macro Letters*, **2015**, 4, 984-990	6.6	210
339	Selective Photoactivation: From a Single Unit Monomer Insertion Reaction to Controlled Polymer Architectures. *Journal of the American Chemical Society*, **2016**, 138, 3094-106	16.4	208
338	Investigation into thiol-(meth)acrylate Michael addition reactions using amine and phosphine catalysts. *Polymer Chemistry*, **2010**, 1, 1196	4.9	203
337	Thermosensitive graphene nanocomposites formed using pyrene-terminal polymers made by RAFT polymerization. *Journal of Polymer Science Part A*, **2010**, 48, 425-433	2.5	193
336	Beyond Traditional RAFT: Alternative Activation of Thiocarbonylthio Compounds for Controlled Polymerization. *Advanced Science*, **2016**, 3, 1500394	13.6	189
335	Utilizing the electron transfer mechanism of chlorophyll a under light for controlled radical polymerization. *Chemical Science*, **2015**, 6, 1341-1349	9.4	185
334	Photoinduced Electron Transfer Reversible Addition Fragmentation Chain Transfer (PET-RAFT) Polymerization of Vinyl Acetate and N-Vinylpyrrolidinone: Kinetic and Oxygen Tolerance Study. *Macromolecules*, **2014**, 47, 4930-4942	5.5	185
333	Synthesis, characterization, and multilayer assembly of pH sensitive graphene-polymer nanocomposites. *Langmuir*, **2010**, 26, 10068-75	4	183
332	RAFT polymerization and thiol chemistry: a complementary pairing for implementing modern macromolecular design. *Macromolecular Rapid Communications*, **2011**, 32, 1123-43	4.8	174
331	Design and Synthesis of Dual Thermoresponsive and Antifouling Hybrid Polymer/Gold Nanoparticles. *Macromolecules*, **2009**, 42, 6917-6926	5.5	170
330	Visible Light-Mediated Polymerization-Induced Self-Assembly in the Absence of External Catalyst or Initiator. *ACS Macro Letters*, **2016**, 5, 558-564	6.6	169
329	Oxygen tolerant photopolymerization for ultralow volumes. *Polymer Chemistry*, **2017**, 8, 5012-5022	4.9	161
328	Aqueous photoinduced living/controlled polymerization: tailoring for bioconjugation. *Chemical Science*, **2014**, 5, 3568	9.4	161

327	Synthesis of Complex Multiblock Copolymers via a Simple Iterative Cu(0)-Mediated Radical Polymerization Approach. *Macromolecules*, **2011**, 44, 8028-8033	5.5	158
326	Efficient usage of thiocarbonates for both the production and the biofunctionalization of polymers. *Macromolecular Rapid Communications*, **2009**, 30, 493-7	4.8	151
325	Direct Synthesis of Well-Defined Heterotelechelic Polymers for Bioconjugations. *Macromolecules*, **2008**, 41, 5641-5650	5.5	150
324	Combining ThioBromo "Click" Chemistry and RAFT Polymerization: A Powerful Tool for Preparing Functionalized Multiblock and Hyperbranched Polymers. *Macromolecules*, **2010**, 43, 20-24	5.5	149
323	Antimicrobial polymeric nanoparticles. *Progress in Polymer Science*, **2018**, 76, 40-64	29.6	147
322	Oxygen Tolerance in Living Radical Polymerization: Investigation of Mechanism and Implementation in Continuous Flow Polymerization. *Macromolecules*, **2016**, 49, 6779-6789	5.5	147
321	Iodine Transfer Polymerization (ITP) of Vinylidene Fluoride (VDF). Influence of the Defect of VDF Chaining on the Control of ITP. *Macromolecules*, **2005**, 38, 10353-10362	5.5	144
320	The stabilization and bio-functionalization of iron oxide nanoparticles using heterotelechelic polymers. *Journal of Materials Chemistry*, **2009**, 19, 111-123		143
319	Doxorubicin loaded dual pH- and thermo-responsive magnetic nanocarrier for combined magnetic hyperthermia and targeted controlled drug delivery applications. *Nanoscale*, **2016**, 8, 12152-61	7.7	141
318	Using fluorescence lifetime imaging microscopy to monitor theranostic nanoparticle uptake and intracellular doxorubicin release. *ACS Nano*, **2013**, 7, 10175-89	16.7	140
317	Stereo-, Temporal and Chemical Control through Photoactivation of Living Radical Polymerization: Synthesis of Block and Gradient Copolymers. *Journal of the American Chemical Society*, **2015**, 137, 9988-99	16.4	139
316	Water-soluble, thermoresponsive, hyperbranched copolymers based on PEG-methacrylates: Synthesis, characterization, and LCST behavior. *Journal of Polymer Science Part A*, **2010**, 48, 2783-2792	2.5	137
315	Lanthanide-Doped Upconversion Nanoparticles: Emerging Intelligent Light-Activated Drug Delivery Systems. *Advanced Science*, **2016**, 3, 1500437	13.6	136
314	Photoacid-mediated ring opening polymerization driven by visible light. *Chemical Communications*, **2016**, 52, 7126-9	5.8	134
313	Stability and utility of pyridyl disulfide functionality in RAFT and conventional radical polymerizations. *Journal of Polymer Science Part A*, **2008**, 46, 7207-7224	2.5	130
312	Synthesis of Discrete Oligomers by Sequential PET-RAFT Single-Unit Monomer Insertion. *Angewandte Chemie - International Edition*, **2017**, 56, 8376-8383	16.4	127
311	Synthesis of versatile thiol-reactive polymer scaffolds via RAFT polymerization. *Biomacromolecules*, **2008**, 9, 1934-44	6.9	127
310	Functional iron oxide magnetic nanoparticles with hyperthermia-induced drug release ability by using a combination of orthogonal click reactions. *Angewandte Chemie - International Edition*, **2013**, 52, 14152-6	16.4	126

309	Co-delivery of nitric oxide and antibiotic using polymeric nanoparticles. *Chemical Science*, **2016**, 7, 1016-1027	9.4	125
308	An Oxygen-Tolerant PET-RAFT Polymerization for Screening Structure-Activity Relationships. *Angewandte Chemie - International Edition*, **2018**, 57, 1557-1562	16.4	124
307	Visible Light Photocatalytic Thiol-Ene Reaction: An Elegant Approach for Fast Polymer Postfunctionalization and Step-Growth Polymerization. *Macromolecules*, **2015**, 48, 520-529	5.5	124
306	Macromolecular Ligands for Gadolinium MRI Contrast Agents. *Macromolecules*, **2012**, 45, 4196-4204	5.5	124
305	One-pot synthesis and biofunctionalization of glycopolymers via RAFT polymerization and thiol-ene reactions. *Chemical Communications*, **2009**, 6029-31	5.8	122
304	Reverse Iodine Transfer Polymerization (RITP) of Methyl Methacrylate. *Macromolecules*, **2006**, 39, 4044-4053	5.5	120
303	Synthesis of functional core, star polymers via RAFT polymerization for drug delivery applications. *Macromolecular Rapid Communications*, **2012**, 33, 760-6	4.8	118
302	Anti-fouling magnetic nanoparticles for siRNA delivery. *Journal of Materials Chemistry*, **2010**, 20, 255-265		118
301	Application of oxygen tolerant PET-RAFT to polymerization-induced self-assembly. *Polymer Chemistry*, **2017**, 8, 2841-2851	4.9	117
300	A Polymerization-Induced Self-Assembly Approach to Nanoparticles Loaded with Singlet Oxygen Generators. *Macromolecules*, **2016**, 49, 7277-7285	5.5	116
299	High Molecular Weight Block Copolymers by Sequential Monomer Addition via Cu(0)-Mediated Living Radical Polymerization (SET-LRP): An Optimized Approach. *ACS Macro Letters*, **2013**, 2, 896-900	6.6	111
298	PET-RAFT polymerisation: towards green and precision polymer manufacturing. *Chemical Communications*, **2018**, 54, 6591-6606	5.8	110
297	Rational Design of Single-Chain Polymeric Nanoparticles That Kill Planktonic and Biofilm Bacteria. *ACS Infectious Diseases*, **2017**, 3, 237-248	5.5	109
296	Synthesis of multi-block copolymer stars using a simple iterative Cu(0)-mediated radical polymerization technique. *Polymer Chemistry*, **2012**, 3, 117-123	4.9	108
295	Controlling Molecular Weight Distributions through Photoinduced Flow Polymerization. *Macromolecules*, **2017**, 50, 8438-8448	5.5	107
294	Temperature-responsive self-assembled monolayers of oligo(ethylene glycol): control of biomolecular recognition. *ACS Nano*, **2008**, 2, 757-65	16.7	107
293	Functional, star polymeric molecular carriers, built from biodegradable microgel/nanogel cores. *Chemical Communications*, **2011**, 47, 1449-51	5.8	106
292	Optimizing the generation of narrow polydispersity arm-first star polymers made using RAFT polymerization. *Polymer Chemistry*, **2011**, 2, 1671	4.9	106

291	In vitro cytotoxicity of RAFT polymers. *Biomacromolecules*, **2010**, 11, 412-20	6.9	106
290	Intracellular nitric oxide delivery from stable NO-polymeric nanoparticle carriers. *Chemical Communications*, **2013**, 49, 4190-2	5.8	105
289	Magnetic nanoparticles with diblock glycopolymer shells give lectin concentration-dependent MRI signals and selective cell uptake. *Chemical Science*, **2014**, 5, 715-726	9.4	104
288	Nanoparticle (star polymer) delivery of nitric oxide effectively negates Pseudomonas aeruginosa biofilm formation. *Biomacromolecules*, **2014**, 15, 2583-9	6.9	103
287	Photocontrolled Living Polymerization Systems with Reversible Deactivations through Electron and Energy Transfer. *Macromolecular Rapid Communications*, **2017**, 38, 1700143	4.8	101
286	In Situ Formation of Polymer-Gold Composite Nanoparticles with Tunable Morphologies.. *ACS Macro Letters*, **2014**, 3, 591-596	6.6	99
285	Poly(vinylidene fluoride)-b-poly(styrene) Block Copolymers by Iodine Transfer Polymerization (ITP): Synthesis, Characterization, and Kinetics of ITP. *Macromolecules*, **2006**, 39, 8639-8651	5.5	98
284	Towards Sequence-Controlled Antimicrobial Polymers: Effect of Polymer Block Order on Antimicrobial Activity. *Angewandte Chemie - International Edition*, **2018**, 57, 4559-4564	16.4	97
283	A Versatile 3D and 4D Printing System through Photocontrolled RAFT Polymerization. *Angewandte Chemie - International Edition*, **2019**, 58, 17954-17963	16.4	97
282	Color-Coding Visible Light Polymerizations To Elucidate the Activation of Trithiocarbonates Using Eosin Y. *Macromolecules*, **2018**, 51, 1370-1376	5.5	96
281	Kinetics of the iodine transfer polymerization of vinylidene fluoride. *Journal of Polymer Science Part A*, **2006**, 44, 5763-5777	2.5	94
280	Aqueous RAFT Photopolymerization with Oxygen Tolerance. *Macromolecules*, **2016**, 49, 9345-9357	5.5	94
279	A Photoinitiation System for Conventional and Controlled Radical Polymerization at Visible and NIR Wavelengths. *Macromolecules*, **2016**, 49, 3274-3285	5.5	94
278	Recent advances in stimuli-responsive polymer systems for remotely controlled drug release. *Progress in Polymer Science*, **2019**, 99, 101164	29.6	93
277	Acid Degradable and Biocompatible Polymeric Nanoparticles for the Potential Codelivery of Therapeutic Agents. *Macromolecules*, **2011**, 44, 8008-8019	5.5	93
276	RAFT Polymer End-Group Modification and Chain Coupling/Conjugation Via Disulfide Bonds. *Australian Journal of Chemistry*, **2009**, 62, 830	1.2	93
275	Enhancing the therapeutic effects of polyphenols with macromolecules. *Polymer Chemistry*, **2016**, 7, 1529-1544	4.9	92
274	Dextran-based doxorubicin nanocarriers with improved tumor penetration. *Biomacromolecules*, **2014**, 15, 262-75	6.9	92

273	Synthesis and modification of thermoresponsive poly(oligo(ethylene glycol) methacrylate) via catalytic chain transfer polymerization and thiol–ene Michael addition. *Polymer Chemistry*, **2011**, 2, 815	4.9	87
272	SI-PET-RAFT: Surface-Initiated Photoinduced Electron Transfer-Reversible Addition–Fragmentation Chain Transfer Polymerization. *ACS Macro Letters*, **2019**, 8, 374-380	6.6	83
271	Copolymers with Controlled Molecular Weight Distributions and Compositional Gradients through Flow Polymerization. *Macromolecules*, **2018**, 51, 4553-4563	5.5	82
270	Effective delivery of siRNA into cancer cells and tumors using well-defined biodegradable cationic star polymers. *Molecular Pharmaceutics*, **2013**, 10, 2435-44	5.6	81
269	Designing with Light: Advanced 2D, 3D, and 4D Materials. *Advanced Materials*, **2020**, 32, e1903850	24	81
268	2-(Methylthio)ethyl Methacrylate: A Versatile Monomer for Stimuli Responsiveness and Polymerization-Induced Self-Assembly in the Presence of Air. *ACS Macro Letters*, **2017**, 6, 1237-1244	6.6	80
267	Seeing the Light: Advancing Materials Chemistry through Photopolymerization. *Angewandte Chemie*, **2019**, 131, 5224-5243	3.6	80
266	End-group fidelity of copper(0)-meditated radical polymerization at high monomer conversion: an ESI-MS investigation. *Journal of Polymer Science Part A*, **2011**, 49, 5313-5321	2.5	80
265	An overview of protein–polymer particles. *Soft Matter*, **2011**, 7, 1599-1614	3.6	79
264	Iron oxide nanoparticle-mediated hyperthermia stimulates dispersal in bacterial biofilms and enhances antibiotic efficacy. *Scientific Reports*, **2015**, 5, 18385	4.9	78
263	Guiding the Design of Organic Photocatalyst for PET-RAFT Polymerization: Halogenated Xanthene Dyes. *Macromolecules*, **2019**, 52, 236-248	5.5	78
262	Discrete and Stereospecific Oligomers Prepared by Sequential and Alternating Single Unit Monomer Insertion. *Journal of the American Chemical Society*, **2018**, 140, 13392-13406	16.4	78
261	Catalyst-Free Visible Light-Induced RAFT Photopolymerization. *ACS Symposium Series*, **2015**, 247-267	0.4	77
260	An efficient and highly versatile synthetic route to prepare iron oxide nanoparticles/nanocomposites with tunable morphologies. *Langmuir*, **2014**, 30, 10493-502	4	76
259	Simultaneous polymerization-induced self-assembly (PISA) and guest molecule encapsulation. *Macromolecular Rapid Communications*, **2014**, 35, 417-21	4.8	76
258	Recent advances in nitric oxide delivery for antimicrobial applications using polymer-based systems. *Journal of Materials Chemistry B*, **2018**, 6, 2945-2959	7.3	75
257	Visible Light-Mediated Polymerization-Induced Self-Assembly Using Continuous Flow Reactors. *Macromolecules*, **2018**, 51, 5165-5172	5.5	74
256	Synthesis of Hollow Polymer Nanocapsules Exploiting Gold Nanoparticles as Sacrificial Templates. *Macromolecules*, **2010**, 43, 1792-1799	5.5	74

255	Copper(0)-mediated radical polymerisation in a self-generating biphasic system. *Polymer Chemistry*, **2013**, 4, 106-112	4.9	73
254	Synthesis and Characterization of Poly(vinylidene fluoride)-g-poly(styrene) Graft Polymers Obtained by Atom Transfer Radical Polymerization of Styrene. *Macromolecules*, **2006**, 39, 9087-9101	5.5	73
253	Biodegradable 2D Fe-Al Hydroxide for Nanocatalytic Tumor-Dynamic Therapy with Tumor Specificity. *Advanced Science*, **2018**, 5, 1801155	13.6	73
252	Exploiting Wavelength Orthogonality for Successive Photoinduced Polymerization-Induced Self-Assembly and Photo-Crosslinking. *ACS Macro Letters*, **2018**, 7, 1376-1382	6.6	72
251	The use of nanoparticles to deliver nitric oxide to hepatic stellate cells for treating liver fibrosis and portal hypertension. *Small*, **2015**, 11, 2291-304	11	71
250	Visible-Light-Regulated Controlled/Living Radical Polymerization in Miniemulsion. *ACS Macro Letters*, **2015**, 4, 1139-1143	6.6	71
249	Heterogeneous Photocatalysis as a Means for Improving Recyclability of Organocatalyst in "living" Radical Polymerization. *Macromolecules*, **2018**, 51, 779-790	5.5	71
248	Synthesis of dendritic carbohydrate end-functional polymers via RAFT: Versatile multi-functional precursors for bioconjugations. *Journal of Polymer Science Part A*, **2009**, 47, 4302-4313	2.5	70
247	Biodegradable star polymers functionalized with beta-cyclodextrin inclusion complexes. *Biomacromolecules*, **2009**, 10, 2699-707	6.9	70
246	Organic Electron Donor–Acceptor Photoredox Catalysts: Enhanced Catalytic Efficiency toward Controlled Radical Polymerization. *ACS Macro Letters*, **2015**, 4, 926-932	6.6	66
245	Glycopolymer Decoration of Gold Nanoparticles Using a LbL Approach. *Macromolecules*, **2010**, 43, 3775-3784	5.5	66
244	POLYMER SYNTHESIS. Organic photocatalysts for cleaner polymer synthesis. *Science*, **2016**, 352, 1053-4	33.3	66
243	Nitric Oxide-Loaded Antimicrobial Polymer for the Synergistic Eradication of Bacterial Biofilm. *ACS Macro Letters*, **2018**, 7, 592-597	6.6	65
242	Computer-Guided Discovery of a pH-Responsive Organic Photocatalyst and Application for pH and Light Dual-Gated Polymerization. *Journal of the American Chemical Society*, **2019**, 141, 8207-8220	16.4	63
241	Pushing the Limits of High Throughput PET-RAFT Polymerization. *Macromolecules*, **2018**, 51, 7600-7607	5.5	63
240	Macromolecular and Inorganic Nanomaterials Scaffolds for Carbon Monoxide Delivery: Recent Developments and Future Trends. *ACS Biomaterials Science and Engineering*, **2015**, 1, 895-913	5.5	62
239	Combining Enzymatic Monomer Transformation with Photoinduced Electron Transfer - Reversible Addition-Fragmentation Chain Transfer for the Synthesis of Complex Multiblock Copolymers.. *ACS Macro Letters*, **2014**, 3, 633-638	6.6	62
238	Grafting of P(OEGA) Onto Magnetic Nanoparticles Using Cu(0) Mediated Polymerization: Comparing Grafting "from" and "to" Approaches in the Search for the Optimal Material Design of Nanoparticle MRI Contrast Agents. *Macromolecules*, **2013**, 46, 6038-6047	5.5	62

237	What happens in the dark? Assessing the temporal control of photo-mediated controlled radical polymerizations. *Journal of Polymer Science Part A*, **2019**, 57, 268-273	2.5	61
236	Photoinduced Oxygen Reduction for Dark Polymerization. *Macromolecules*, **2017**, 50, 1832-1846	5.5	60
235	Modulation of the surface charge on polymer-stabilized gold nanoparticles by the application of an external stimulus. *Langmuir*, **2010**, 26, 2721-30	4	60
234	CO-Releasing Polymers Exert Antimicrobial Activity. *Biomacromolecules*, **2015**, 16, 2776-86	6.9	59
233	Functionalizing biodegradable dextran scaffolds using living radical polymerization: new versatile nanoparticles for the delivery of therapeutic molecules. *Molecular Pharmaceutics*, **2012**, 9, 3046-61	5.6	59
232	Facile Access to Polymeric Vesicular Nanostructures: Remarkable End group Effects in Cholesterol and Pyrene Functional (Co)Polymers. *Macromolecules*, **2011**, 44, 299-312	5.5	58
231	Functional disulfide-stabilized polymer-protein particles. *Biomacromolecules*, **2009**, 10, 3253-8	6.9	58
230	Photo-responsive supramolecular hyaluronic acid hydrogels for accelerated wound healing. *Journal of Controlled Release*, **2020**, 323, 24-35	11.7	57
229	Adsorption behaviour of sulfur containing polymers to gold surfaces using QCM-D. *Soft Matter*, **2012**, 8, 118-128	3.6	57
228	-Diaryl Dihydrophenazines as Photoredox Catalysts for PET-RAFT and Sequential PET-RAFT/O-ATRP. *ACS Macro Letters*, **2018**, 7, 662-666	6.6	57
227	A Versatile 3D and 4D Printing System through Photocontrolled RAFT Polymerization. *Angewandte Chemie*, **2019**, 131, 18122-18131	3.6	56
226	RAFT-mediated, visible light-initiated single unit monomer insertion and its application in the synthesis of sequence-defined polymers. *Polymer Chemistry*, **2017**, 8, 4637-4643	4.9	56
225	One-Pot Synthesis of Block Copolymers by Orthogonal Ring-Opening Polymerization and PET-RAFT Polymerization at Ambient Temperature. *ACS Macro Letters*, **2016**, 5, 444-449	6.6	55
224	Functional gold nanoparticles for the storage and controlled release of nitric oxide: applications in biofilm dispersal and intracellular delivery. *Journal of Materials Chemistry B*, **2014**, 2, 5003-5011	7.3	55
223	Approach to peptide decorated micelles via RAFT polymerization. *Journal of Polymer Science Part A*, **2009**, 47, 899-912	2.5	55
222	Effective Utilization of NIR Wavelengths for Photo-Controlled Polymerization: Penetration Through Thick Barriers and Parallel Solar Syntheses. *Angewandte Chemie - International Edition*, **2020**, 59, 2013-2017	16.4	55
221	Progress and Perspectives Beyond Traditional RAFT Polymerization. *Advanced Science*, **2020**, 7, 2001656	13.6	55
220	Living in the Fast Lane High Throughput Controlled/Living Radical Polymerization. *Macromolecules*, **2019**, 52, 3-23	5.5	55

219	A Rationally Optimized Nanoparticle System for the Delivery of RNA Interference Therapeutics into Pancreatic Tumors in Vivo. *Biomacromolecules*, **2016**, 17, 2337-51	6.9	54
218	A block copolymer-stabilized co-precipitation approach to magnetic iron oxide nanoparticles for potential use as MRI contrast agents. *Polymer Chemistry*, **2014**, 5, 2611-2620	4.9	53
217	Study of the telomerization of dimethylaminoethyl methacrylate (DMAEMA) with mercaptoethanol. Application to the synthesis of a new macromonomer. *Polymer*, **2004**, 45, 7863-7876	3.9	53
216	Biomimetic polymers responsive to a biological signaling molecule: nitric oxide triggered reversible self-assembly of single macromolecular chains into nanoparticles. *Angewandte Chemie - International Edition*, **2014**, 53, 7779-84	16.4	52
215	Effect of gold nanoparticle shapes for phototherapy and drug delivery. *Polymer Chemistry*, **2016**, 7, 2888-2903	4.9	52
214	Biomimetic synthesis of coordination network materials: Recent advances in MOFs and MPNs. *Applied Materials Today*, **2018**, 10, 93-105	6.6	51
213	Telechelic Diiodopoly(VDF-co-PMVE) Copolymers by Iodine Transfer Copolymerization of Vinylidene Fluoride (VDF) with Perfluoromethyl Vinyl Ether (PMVE). *Macromolecules*, **2010**, 43, 3652-3663	5.5	51
212	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
211	Gadolinium-functionalized nanoparticles for application as magnetic resonance imaging contrast agents via polymerization-induced self-assembly. *Polymer Chemistry*, **2016**, 7, 7325-7337	4.9	49
210	Post-functionalization of ATRP polymers using both thiol/ene and thiol/disulfide exchange chemistry. *Chemical Communications*, **2011**, 47, 1318-20	5.8	49
209	Enhancing the antimicrobial and antibiofilm effectiveness of silver nanoparticles prepared by green synthesis. *Journal of Materials Chemistry B*, **2018**, 6, 4124-4138	7.3	49
208	Nanoparticles based on star polymers as theranostic vectors: endosomal-triggered drug release combined with MRI sensitivity. *Advanced Healthcare Materials*, **2015**, 4, 148-56	10.1	47
207	Light-Regulated Polymerization under Near-Infrared/Far-Red Irradiation Catalyzed by Bacteriochlorophyll a. *Angewandte Chemie*, **2016**, 128, 1048-1052	3.6	46
206	Potential applications of nanotechnology for the diagnosis and treatment of pancreatic cancer. *Frontiers in Physiology*, **2014**, 5, 2	4.6	45
205	3D printing of polymeric materials based on photo-RAFT polymerization. *Polymer Chemistry*, **2020**, 11, 641-647	4.9	45
204	Oxygen Tolerant PET-RAFT Facilitated 3D Printing of Polymeric Materials under Visible LEDs. *ACS Applied Polymer Materials*, **2020**, 2, 782-790	4.3	44
203	Chlorophyll a crude extract: efficient photo-degradable photocatalyst for PET-RAFT polymerization. *Chemical Communications*, **2017**, 53, 12560-12563	5.8	44
202	Polymerization of a Photocleavable Monomer Using Visible Light. *Macromolecular Rapid Communications*, **2016**, 37, 905-10	4.8	44

201	A logic gate for external regulation of photopolymerization. *Polymer Chemistry*, **2016**, 7, 6437-6449	4.9	44
200	High-Throughput Synthesis of Antimicrobial Copolymers and Rapid Evaluation of Their Bioactivity. *Macromolecules*, **2019**, 52, 3975-3986	5.5	43
199	A Self-Reporting Photocatalyst for Online Fluorescence Monitoring of High Throughput RAFT Polymerization. *Angewandte Chemie - International Edition*, **2018**, 57, 10102-10106	16.4	43
198	A photocatalyst immobilized on fibrous and porous monolithic cellulose for heterogeneous catalysis of controlled radical polymerization. *Polymer Chemistry*, **2018**, 9, 1666-1673	4.9	43
197	Catalyst-Free Selective Photoactivation of RAFT Polymerization: A Facile Route for Preparation of Comblike and Bottlebrush Polymers. *Macromolecules*, **2018**, 51, 7776-7784	5.5	43
196	RAFT iniferter polymerization in miniemulsion using visible light. *Polymer Chemistry*, **2017**, 8, 3965-3970	4.9	42
195	In Situ Synthesis of Coil□Coil Diblock Copolymer Nanotubes and Tubular Ag/Polymer Nanocomposites by RAFT Dispersion Polymerization in Poly(ethylene glycol). *Macromolecules*, **2017**, 50, 7593-7602	5.5	42
194	Antibiofilm Nitric Oxide-Releasing Polydopamine Coatings. *ACS Applied Materials & Interfaces*, **2019**, 11, 7320-7329	9.5	42
193	100th Anniversary of Macromolecular Science Viewpoint: Photochemical Reaction Orthogonality in Modern Macromolecular Science. *ACS Macro Letters*, **2019**, 8, 812-818	6.6	42
192	Rapid Oxygen Tolerant Aqueous RAFT Photopolymerization in Continuous Flow Reactors. *Macromolecules*, **2019**, 52, 1609-1619	5.5	42
191	Enhanced colloidal stability and protein resistance of layered double hydroxide nanoparticles with phosphonic acid-terminated PEG coating for drug delivery. *Journal of Colloid and Interface Science*, **2018**, 521, 242-251	9.3	42
190	The precise molecular location of gadolinium atoms has a significant influence on the efficacy of nanoparticulate MRI positive contrast agents. *Polymer Chemistry*, **2014**, 5, 2592-2601	4.9	42
189	Controlled Direct Growth of Polymer Shell on Upconversion Nanoparticle Surface via Visible Light Regulated Polymerization. *Macromolecules*, **2017**, 50, 7137-7147	5.5	42
188	Synthesis of Biodegradable Hydrogel Nanoparticles for Bioapplications Using Inverse Miniemulsion RAFT Polymerization. *Macromolecules*, **2011**, 44, 7167-7175	5.5	42
187	Iodine transfer copolymerization of vinylidene fluoride and □trifluoromethacrylic acid in emulsion process without any surfactants. *Journal of Polymer Science Part A*, **2009**, 47, 4710-4722	2.5	42
186	RAFT controlled synthesis of six-armed biodegradable star polymeric architectures via a □ore-first□ methodology. *Polymer*, **2009**, 50, 4455-4463	3.9	42
185	Polymer Synthesis in Continuous Flow Reactors. *Progress in Polymer Science*, **2020**, 107, 101256	29.6	41
184	Selective Postmodification of Copolymer Backbones Bearing Different Activated Esters with Disparate Reactivities. *ACS Macro Letters*, **2013**, 2, 912-917	6.6	41

183	PEGylated Gold Nanoparticles Functionalized with Cyclodextrin Inclusion Complexes: Towards Metal Nanoparticle - Polymer - Carbohydrate Cluster Biohybrid Materials. *Australian Journal of Chemistry*, **2010**, 63, 1245	1.2	41
182	The effects of polymer topology and chain length on the antimicrobial activity and hemocompatibility of amphiphilic ternary copolymers. *Polymer Chemistry*, **2018**, 9, 1735-1744	4.9	41
181	Transformation of gels via catalyst-free selective RAFT photoactivation. *Polymer Chemistry*, **2019**, 10, 2477-2483	4.9	40
180	A simple methodology for the synthesis of heterotelechelic protein–polymer–biomolecule conjugates. *Journal of Polymer Science Part A*, **2010**, 48, 1399-1405	2.5	40
179	Biofilm dispersal using nitric oxide loaded nanoparticles fabricated by photo-PISA: influence of morphology. *Chemical Communications*, **2017**, 53, 12894-12897	5.8	39
178	Spin capturing with nitrones: radical coupling reactions with concurrent introduction of mid-chain functionality. *Chemical Communications*, **2010**, 46, 1959-1961	5.8	38
177	A polydiacetylene-based colorimetric sensor as an active use-by date indicator for milk. *Journal of Colloid and Interface Science*, **2020**, 572, 31-38	9.3	37
176	How Do Reaction and Reactor Conditions Affect Photoinduced Electron/Energy Transfer Reversible Addition–Fragmentation Transfer Polymerization?. *Industrial & Engineering Chemistry Research*, **2018**, 57, 4203-4213	3.9	37
175	Effect of TiO2 nanoparticle surface functionalization on protein adsorption, cellular uptake and cytotoxicity: the attachment of PEG comb polymers using catalytic chain transfer and thiol–ene chemistry. *Polymer Chemistry*, **2012**, 3, 2743	4.9	37
174	Synthesis of siRNA Polyplexes Adopting a Combination of RAFT Polymerization and Thiol-ene Chemistry. *Australian Journal of Chemistry*, **2009**, 62, 1344	1.2	37
173	Flow mediated metal-free PET-RAFT polymerisation for upscaled and consistent polymer production. *Reaction Chemistry and Engineering*, **2019**, 4, 1216-1228	4.9	36
172	Alcohol-based PISA in batch and flow: exploring the role of photoinitiators. *Polymer Chemistry*, **2019**, 10, 2406-2414	4.9	36
171	Synthesis of telechelic oligomers by atom transfer radical polymerization: A study of acrylate monomers. *Journal of Polymer Science Part A*, **2005**, 43, 2377-2394	2.5	36
170	The Next 100 Years of Polymer Science. *Macromolecular Chemistry and Physics*, **2020**, 221, 2000216	2.6	36
169	Photoredox catalyst-mediated atom transfer radical addition for polymer functionalization under visible light. *Polymer Chemistry*, **2014**, 5, 3321-3325	4.9	35
168	Towards Sequence-Controlled Antimicrobial Polymers: Effect of Polymer Block Order on Antimicrobial Activity. *Angewandte Chemie*, **2018**, 130, 4649-4654	3.6	34
167	An Oxygen Paradox: Catalytic Use of Oxygen in Radical Photopolymerization. *Angewandte Chemie - International Edition*, **2019**, 58, 16811-16814	16.4	34
166	High fidelity vinyl terminated polymers by combining RAFT and cobalt catalytic chain transfer (CCT) polymerization methods. *Chemical Communications*, **2010**, 46, 6338-40	5.8	34

165	Reversible Deactivation Radical Polymerization: From Polymer Network Synthesis to 3D Printing. *Advanced Science*, **2021**, 8, 2003701	13.6	34
164	Synergy between Synthetic Antimicrobial Polymer and Antibiotics: A Promising Platform To Combat Multidrug-Resistant Bacteria. *ACS Infectious Diseases*, **2019**, 5, 1357-1365	5.5	33
163	Spatial and temporal control of drug release through pH and alternating magnetic field induced breakage of Schiff base bonds. *Polymer Chemistry*, **2014**, 5, 3311-3315	4.9	33
162	Polymer–gold nanohybrids with potential use in bimodal MRI/CT: enhancing the relaxometric properties of Gd(III) complexes. *Journal of Materials Chemistry*, **2012**, 22, 21382		33
161	Biomimetic surface modification of honeycomb films via a "grafting from" approach. *Langmuir*, **2010**, 26, 12748-54	4	33
160	Catalytic Metal Foam by Chemical Melting and Sintering of Liquid Metal Nanoparticles. *Advanced Functional Materials*, **2020**, 30, 1907879	15.6	33
159	Efficient Photoinitiated Polymerization-Induced Self-Assembly with Oxygen Tolerance through Dual-Wavelength Type I Photoinitiation and Photoinduced Deoxygenation. *Macromolecules*, **2020**, 53, 1212-1223	5.5	32
158	High-Throughput Process for the Discovery of Antimicrobial Polymers and Their Upscaled Production via Flow Polymerization. *Macromolecules*, **2020**, 53, 631-639	5.5	32
157	Synthesis and properties of polyolefin graft copolymers by a grafting onto reactive process. *Polymer*, **2008**, 49, 4519-4528	3.9	31
156	Mediating Reaction Orthogonality in Polymer and Materials Science. *Angewandte Chemie - International Edition*, **2021**, 60, 1748-1781	16.4	31
155	Rapid High-Resolution 3D Printing and Surface Functionalization via Type I Photoinitiated RAFT Polymerization. *Angewandte Chemie - International Edition*, **2021**, 60, 8839-8850	16.4	31
154	Dextran-Catechin: An anticancer chemically-modified natural compound targeting copper that attenuates neuroblastoma growth. *Oncotarget*, **2016**, 7, 47479-47493	3.3	30
153	MgH2 with different morphologies synthesized by thermal hydrogenolysis method for enhanced hydrogen sorption. *International Journal of Hydrogen Energy*, **2013**, 38, 5746-5757	6.7	29
152	Electrostatic assembly of functional polymer combs onto gold nanoparticle surfaces: combining RAFT, click and LbL to generate new hybrid nanomaterials. *Polymer Chemistry*, **2010**, 1, 1186	4.9	29
151	A Process for Polymerizing Vinyl Phosphonic Acid with C6F13I Perfluoroalkyl Iodide Chain-Transfer Agent. *Macromolecular Chemistry and Physics*, **2008**, 209, 75-83	2.6	29
150	Nanoparticles of polydopamine for improving mechanical and flame-retardant properties of an epoxy resin. *Composites Part B: Engineering*, **2020**, 186, 107828	10	29
149	Targeting the undruggable in pancreatic cancer using nano-based gene silencing drugs. *Biomaterials*, **2020**, 240, 119742	15.6	29
148	A Process for Well-Defined Polymer Synthesis through Textile Dyeing Inspired Catalyst Immobilization. *ACS Sustainable Chemistry and Engineering*, **2018**, 6, 15245-15253	8.3	29

147	Matrices for combined delivery of proteins and synthetic molecules. *Advanced Drug Delivery Reviews*, **2016**, 98, 77-85	18.5	28
146	Radical Terpolymerization of 1,1,2-Trifluoro-2-pentafluorosulfanylethylene and Pentafluorosulfanylethylene in the Presence of Vinylidene Fluoride and Hexafluoropropylene by Iodine Transfer Polymerization. *Macromolecules*, **2008**, 41, 1254-1263	5.5	28
145	A Comprehensive Platform for the Design and Synthesis of Polymer Molecular Weight Distributions. *Macromolecules*, **2020**, 53, 8867-8882	5.5	28
144	Exploiting the Versatility of Polydopamine-Coated Nanoparticles to Deliver Nitric Oxide and Combat Bacterial Biofilm. *Macromolecular Rapid Communications*, **2018**, 39, e1800159	4.8	28
143	Synthetic Antimicrobial Polymers in Combination Therapy: Tackling Antibiotic Resistance. *ACS Infectious Diseases*, **2021**, 7, 215-253	5.5	28
142	Synthesis of Discrete Oligomers by Sequential PET-RAFT Single-Unit Monomer Insertion. *Angewandte Chemie*, **2017**, 129, 8496-8503	3.6	27
141	Water Soluble Antioxidant Dextran-Quercetin Conjugate with Potential Anticancer Properties. *Macromolecular Bioscience*, **2018**, 18, e1700239	5.5	27
140	Remarkable hydrogen storage properties for nanocrystalline MgH2 synthesised by the hydrogenolysis of Grignard reagents. *Physical Chemistry Chemical Physics*, **2012**, 14, 11386-97	3.6	27
139	An Oxygen-Tolerant PET-RAFT Polymerization for Screening Structure–Activity Relationships. *Angewandte Chemie*, **2018**, 130, 1573-1578	3.6	26
138	Surface functionalization of upconversion nanoparticles using visible light-mediated polymerization. *Polymer*, **2018**, 151, 6-14	3.9	26
137	Advancing the boundary of insolubility of non-linear PEG-analogues in alcohols: UCST transitions in ethanol–water mixtures. *Soft Matter*, **2013**, 9, 1825-1834	3.6	26
136	Synthesis and postfunctionalization of well-defined star polymers via double-click chemistry. *Journal of Polymer Science Part A*, **2011**, 49, 5245-5256	2.5	26
135	Synthesis of Light-Responsive Pyrene-Based Polymer Nanoparticles via Polymerization-Induced Self-Assembly. *Macromolecular Rapid Communications*, **2019**, 40, e1800510	4.8	26
134	Scalable Aqueous Reversible Addition–Fragmentation Chain Transfer Photopolymerization-Induced Self-Assembly of Acrylamides for Direct Synthesis of Polymer Nanoparticles for Potential Drug Delivery Applications. *ACS Applied Polymer Materials*, **2019**, 1, 1251-1256	4.3	25
133	The Interaction of CORM-2 with Block Copolymers Containing Poly(4-vinylpyridine): Macromolecular Scaffolds for Carbon Monoxide Delivery in Biological Systems. *Macromolecular Rapid Communications*, **2016**, 37, 739-44	4.8	25
132	Efficient functionalisation of dextran-aldehyde with catechin: potential applications in the treatment of cancer. *Polymer Chemistry*, **2016**, 7, 2542-2552	4.9	25
131	Synthesis of complex macromolecules using iterative copper(0)-mediated radical polymerization. *Journal of Polymer Science Part A*, **2014**, 52, 2083-2098	2.5	25
130	Exploration of the PET-RAFT Initiation Mechanism for Two Commonly Used Photocatalysts. *ChemPhotoChem*, **2019**, 3, 1193-1199	3.3	25

129	Upscaling single unit monomer insertion to synthesize discrete oligomers. *Journal of Polymer Science Part A*, **2019**, 57, 1947-1955	2.5	24
128	Inhalable curcumin formulations: Micronization and bioassay. *Chemical Engineering Journal*, **2015**, 279, 799-808	14.7	24
127	Factors influencing the synthesis and the post-modification of PEGylated pentafluorophenyl acrylate containing copolymers. *European Polymer Journal*, **2013**, 49, 3060-3071	5.2	24
126	Manganese-Based Magnetic Layered Double Hydroxide Nanoparticle: A pH-Sensitive and Concurrently Enhanced /-Weighted Dual-Mode Magnetic Resonance Imaging Contrast Agent. *ACS Biomaterials Science and Engineering*, **2019**, 5, 2555-2562	5.5	22
125	Surface modification of polydopamine coated particles via glycopolymer brush synthesis for protein binding and FLIM testing. *Polymer Chemistry*, **2015**, 6, 2504-2511	4.9	22
124	Low-Fouling Fluoropolymers for Bioconjugation and In Vivo Tracking. *Angewandte Chemie - International Edition*, **2020**, 59, 4729-4735	16.4	22
123	A cocktail of vitamins for aqueous RAFT polymerization in an open-to-air microtiter plate. *Polymer Chemistry*, **2019**, 10, 4643-4654	4.9	22
122	Synthesis of heterotelechelic polymers with affinity to glutathione-S-transferase and biotin-tagged proteins by RAFT polymerization and thiol□ne reactions. *Polymer Chemistry*, **2011**, 2, 1505	4.9	22
121	Synthesis of functionalized amine oligomers by free-radical telomerization of methyl methacrylate with a peculiar telogen: 2-Aminoethanethiol hydrochloride. *Journal of Polymer Science Part A*, **2004**, 42, 5146-5160	2.5	22
120	Synthesis of maleimide-terminated n-butyl acrylate oligomers by atom transfer radical polymerization: Study of their copolymerization with vinyl ethers. *Journal of Polymer Science Part A*, **2005**, 43, 4303-4322	2.5	22
119	Unraveling Photocatalytic Mechanism and Selectivity in PET-RAFT Polymerization. *Advanced Theory and Simulations*, **2019**, 2, 1900038	3.5	21
118	Effectively delivering a unique hsp90 inhibitor using star polymers. *ACS Medicinal Chemistry Letters*, **2013**, 4,	4.3	21
117	Soft ionization mass spectroscopy: Insights into the polymerization mechanism. *Journal of Polymer Science Part A*, **2013**, 51, 1475-1505	2.5	21
116	Synthesis of macromonomers of acrylic acid by telomerization: Application to the synthesis of polystyrene-g-poly(acrylic acid) copolymers. *Journal of Polymer Science Part A*, **2007**, 45, 395-415	2.5	21
115	Planar polymer electrolyte membrane fuel cells: powering portable devices from hydrogen. *Sustainable Energy and Fuels*, **2020**, 4, 439-468	5.8	21
114	Effect of Hydrophobic Groups on Antimicrobial and Hemolytic Activity: Developing a Predictive Tool for Ternary Antimicrobial Polymers. *Biomacromolecules*, **2020**, 21, 5241-5255	6.9	21
113	Study of the synthesis of graft copolymers by a reactive process. Influence of the copolymer structure on the adhesion of polypropylene onto poly(vinylidene fluoride). *Polymer Degradation and Stability*, **2005**, 90, 326-339	4.7	20
112	Unravelling an oxygen-mediated reductive quenching pathway for photopolymerisation under long wavelengths. *Nature Communications*, **2021**, 12, 478	17.4	20

111	Tuneable catechin functionalisation of carbohydrate polymers. *Carbohydrate Polymers*, **2017**, 169, 480-494	10.3	19
110	Polymer-Grafted, Nonfouling, Magnetic Nanoparticles Designed to Selectively Store and Release Molecules via Ionic Interactions. *Macromolecules*, **2013**, 46, 7043-7054	5.5	19
109	Antibiofilm Platform based on the Combination of Antimicrobial Polymers and Essential Oils. *Biomacromolecules*, **2020**, 21, 262-272	6.9	19
108	Benchtop Preparation of Polymer Brushes by SI-PET-RAFT: The Effect of the Polymer Composition and Structure on Inhibition of a Biofilm. *ACS Applied Materials & Interfaces*, **2020**, 12, 55243-55254	9.5	19
107	Forced gradient copolymerisation: a simplified approach for polymerisation-induced self-assembly. *Polymer Chemistry*, **2021**, 12, 57-68	4.9	19
106	Elements of RAFT Navigation. *ACS Symposium Series*, **2018**, 77-103	0.4	18
105	Functional Iron Oxide Magnetic Nanoparticles with Hyperthermia-Induced Drug Release Ability by Using a Combination of Orthogonal Click Reactions. *Angewandte Chemie*, **2013**, 125, 14402-14406	3.6	18
104	Tuning crystallization and morphology of zinc oxide with polyvinylpyrrolidone: Formation mechanisms and antimicrobial activity. *Journal of Colloid and Interface Science*, **2019**, 546, 43-52	9.3	17
103	PET-RAFT facilitated 3D printable resins with multifunctional RAFT agents. *Materials Chemistry Frontiers*, **2021**, 5, 2271-2282	7.8	17
102	2D Porphyrinic Metal-Organic Framework Nanosheets as Multidimensional Photocatalysts for Functional Materials. *Angewandte Chemie - International Edition*, **2021**, 60, 22664-22671	16.4	17
101	Precise synthesis of poly(N-acryloyl amino acid) through photoinduced living polymerization. *Polymer Chemistry*, **2018**, 9, 2733-2745	4.9	16
100	Temperature programed photo-induced RAFT polymerization of stereo-block copolymers of poly(vinyl acetate). *Polymer Chemistry*, **2017**, 8, 6024-6027	4.9	16
99	Exploring the potential of linear polymer structures for the synthesis of fluorescent gold nanoclusters. *Materials Chemistry Frontiers*, **2017**, 1, 80-90	7.8	16
98	Dicer-labile PEG conjugates for siRNA delivery. *Biomacromolecules*, **2011**, 12, 4301-10	6.9	16
97	Polymers for Fluorescence Imaging of Formaldehyde in Living Systems via the Hantzsch Reaction. *ACS Macro Letters*, **2018**, 7, 1346-1352	6.6	16
96	Versatile oligomers and polymers from flavonoids a new approach to synthesis. *Polymer Chemistry*, **2017**, 8, 2317-2326	4.9	15
95	Particle Size Control in Miniemulsion Polymerization via Membrane Emulsification. *Macromolecules*, **2019**, 52, 4492-4499	5.5	15
94	Polymerization of cubosome and hexosome templates to produce complex microparticle shapes. *Journal of Colloid and Interface Science*, **2019**, 546, 240-250	9.3	15

93	A detailed surface analytical study of degradation processes in (meth)acrylic polymers. *Journal of Polymer Science Part A*, **2012**, 50, 1801-1811	2.5	15
92	Effective Utilization of NIR Wavelengths for Photo-Controlled Polymerization: Penetration Through Thick Barriers and Parallel Solar Syntheses. *Angewandte Chemie*, **2020**, 132, 2029-2033	3.6	15
91	In the Limelight: 2D and 3D Materials via Photo-Controlled Radical Polymerization. *Trends in Chemistry*, **2020**, 2, 689-706	14.8	15
90	Cancer-Associated Fibroblasts in Pancreatic Ductal Adenocarcinoma Determine Response to SLC7A11 Inhibition. *Cancer Research*, **2021**, 81, 3461-3479	10.1	15
89	Interconvertible and switchable cationic/PET-RAFT copolymerization triggered by visible light. *Polymer Journal*, **2020**, 52, 65-73	2.7	15
88	Copper-doped metal-organic frameworks for the controlled generation of nitric oxide from endogenous S-nitrosothiols. *Journal of Materials Chemistry B*, **2021**, 9, 1059-1068	7.3	15
87	Photo-driven synthesis of polymer-coated platinized ZnO nanoparticles with enhanced photoelectrochemical charge transportation. *Journal of Materials Chemistry A*, **2017**, 5, 4568-4575	13	14
86	Rational Design of Photocatalysts for Controlled Polymerization: Effect of Structures on Photocatalytic Activities.. *Chemical Reviews*, **2022**,	68.1	14
85	Gradient Polymerization-Induced Self-Assembly: A One-Step Approach. *Macromolecular Rapid Communications*, **2020**, 41, e1900493	4.8	14
84	Divergent Synthesis of Graft and Branched Copolymers through Spatially Controlled Photopolymerization in Flow Reactors. *Macromolecules*, **2021**, 54, 3430-3446	5.5	14
83	Incorporation and antimicrobial activity of nisin Z within carrageenan/chitosan multilayers. *Scientific Reports*, **2021**, 11, 1690	4.9	14
82	Soft polyhedral particles based on cubic liquid crystalline emulsion droplets. *Soft Matter*, **2017**, 13, 8492-8501	3	13
81	NIR/blue light emission optimization of NaYYbF:Tm upconversion nanoparticles via Yb/Tm dopant balancing. *Dalton Transactions*, **2018**, 47, 8629-8637	4.3	13
80	An Oxygen Paradox: Catalytic Use of Oxygen in Radical Photopolymerization. *Angewandte Chemie*, **2019**, 131, 16967-16970	3.6	13
79	Effect of Thiocarbonylthio Compounds on Visible-Light-Mediated 3D Printing. *Macromolecules*, **2021**, 54, 1170-1182	5.5	13
78	Highly Bactericidal Macroporous Antimicrobial Polymeric Gel for Point-of-Use Water Disinfection. *Scientific Reports*, **2018**, 8, 7965	4.9	13
77	Switching the thermodynamics of MgH2 nanoparticles through polystyrene stabilisation and oxidation. *RSC Advances*, **2014**, 4, 39934	3.7	12
76	Synthesis and Stabilisation of MgH2 Nanoparticles by Self-Assembly. *ChemPlusChem*, **2012**, 77, 423-426	2.8	12

75	Selective and Rapid Light-Induced RAFT Single Unit Monomer Insertion in Aqueous Solution. *Macromolecular Rapid Communications*, **2020**, 41, e1900478	4.8	12
74	Wavelength-selective light-matter interactions in polymer science. *Matter*, **2021**, 4, 2172-2229	12.7	12
73	Ex vivo culture of intact human patient derived pancreatic tumour tissue. *Scientific Reports*, **2021**, 11, 1944	4.9	12
72	Polymer–protein hybrid scaffolds as carriers for CORM-3: platforms for the delivery of carbon monoxide (CO). *RSC Advances*, **2016**, 6, 92975-92980	3.7	11
71	Organic nitrate functional nanoparticles for the glutathione-triggered slow-release of nitric oxide. *Journal of Polymer Science Part A*, **2014**, 52, 2099-2103	2.5	11
70	Synthesis of block copolymers via atom transfer radical polymerization and "click chemistry" grafted from pre-functionalized polypropylene surfaces using gamma irradiation. *Polymer Chemistry*, **2012**, 3, 2102	4.9	11
69	Synthesis and Characterisation of Organogels from ABA Triblock Copolymers. *Macromolecular Chemistry and Physics*, **2007**, 208, 262-270	2.6	11
68	Bioactive Synthetic Polymers. *Advanced Materials*, **2021**, e2105063	24	11
67	Porphyrinic Zirconium Metal–Organic Frameworks (MOFs) as Heterogeneous Photocatalysts for PET-RAFT Polymerization and Stereolithography. *Angewandte Chemie*, **2021**, 133, 5549-5556	3.6	11
66	Chapter 8:Recent developments in the design of nanomaterials for photothermal and magnetic hyperthermia induced controllable drug delivery. *SPR Nanoscience*, **2013**, 225-254	3	10
65	Controlling mechanical properties of 3D printed polymer composites through photoinduced reversible addition–fragmentation chain transfer (RAFT) polymerization. *Polymer Chemistry*,	4.9	10
64	Strain stiffening and positive piezoconductive effect of liquid metal/elastomer soft composites. *Composites Science and Technology*, **2021**, 201, 108497	8.6	10
63	More than skin deep: using polymers to facilitate topical delivery of nitric oxide. *Biomaterials Science*, **2021**, 9, 391-405	7.4	10
62	Low-Fouling Fluoropolymers for Bioconjugation and In Vivo Tracking. *Angewandte Chemie*, **2020**, 132, 4759-4765	3.6	9
61	Photo-Induced Depolymerisation: Recent Advances and Future Challenges. *ChemPhotoChem*, **2019**, 3, 1059-1076	3.3	9
60	Biomimetic Polymers Responsive to a Biological Signaling Molecule: Nitric Oxide Triggered Reversible Self-assembly of Single Macromolecular Chains into Nanoparticles. *Angewandte Chemie*, **2014**, 126, 7913-7918	3.6	9
59	Nanostructure Control in 3D Printed Materials. *Advanced Materials*, **2021**, e2107643	24	9
58	A Self-Reporting Photocatalyst for Online Fluorescence Monitoring of High Throughput RAFT Polymerization. *Angewandte Chemie*, **2018**, 130, 10259-10263	3.6	9

57	Large Hexosomes from Emulsion Droplets: Particle Shape and Mesostructure Control. *Langmuir*, **2018**, 34, 13662-13671	4	9
56	Polydopamine Shell as a Ga Reservoir for Triggering Gallium-Indium Phase Separation in Eutectic Gallium-Indium Nanoalloys. *ACS Nano*, **2021**, 15, 16839-16850	16.7	8
55	Synthesis of polymeric nano-objects of various morphologies based on block copolymer self-assembly using microporous membranes. *Reaction Chemistry and Engineering*, **2017**, 2, 451-457	4.9	7
54	-Nitrosothiol Plasma-Modified Surfaces for the Prevention of Bacterial Biofilm Formation. *ACS Biomaterials Science and Engineering*, **2019**, 5, 5881-5887	5.5	7
53	High peak and high average radiofrequency power transmit/receive switch for thermal magnetic resonance. *Magnetic Resonance in Medicine*, **2018**, 80, 2246-2255	4.4	7
52	Dual Role of Doxorubicin for Photopolymerization and Therapy. *Biomacromolecules*, **2020**, 21, 3887-3897	6.9	7
51	Enhancing the triboelectricity of stretchable electrospun piezoelectric polyvinylidene fluoride/boron nitride nanosheets composite nanofibers. *Composites Communications*, **2020**, 22, 100535	6.7	7
50	Synthesis of Polymer Brushes Via SI-PET-RAFT for Photodynamic Inactivation of Bacteria. *Macromolecular Rapid Communications*, **2021**, 42, e2100106	4.8	7
49	Rational Design of an Antifungal Polyacrylamide Library with Reduced Host-Cell Toxicity. *ACS Applied Materials & Interfaces*, **2021**, 13, 27430-27444	9.5	7
48	Gesteuerte Reaktionsorthogonalität in der Polymer- und Materialwissenschaft. *Angewandte Chemie*, **2021**, 133, 1774-1809	3.6	7
47	Effect of hydrophilic groups on the bioactivity of antimicrobial polymers. *Polymer Chemistry*,	4.9	7
46	Photo-Enhanced Antimicrobial Activity of Polymers Containing an Embedded Photosensitiser. *Angewandte Chemie - International Edition*, **2021**, 60, 24248-24256	16.4	7
45	Intrinsic and Catalyzed Photochemistry of Phenylvinylketone for Wavelength-Sensitive Controlled Polymerization. *ChemPhotoChem*, **2019**, 3, 1171-1179	3.3	6
44	Miniemulsion photopolymerization in a continuous tubular reactor: particle size control via membrane emulsification. *Polymer Chemistry*, **2020**, 11, 4660-4669	4.9	6
43	Synthesis of triblock copolymers from glycolysed poly(ethylene terephthalate) by living radical polymerization. *Journal of Polymer Science Part A*, **2008**, 46, 433-443	2.5	6
42	Electrospun liquid metal/PVDF-HFP nanofiber membranes with exceptional triboelectric performance. *Nano Energy*, **2022**, 92, 106713	17.1	6
41	Well-Defined Polymers for Nonchemistry Laboratories using Oxygen Tolerant Controlled Radical Polymerization. *Journal of Chemical Education*, **2020**, 97, 549-556	2.4	6
40	Recent developments of hybrid piezo triboelectric nanogenerators for flexible sensors and energy harvesters. *Nanoscale Advances*, **2021**, 3, 5465-5486	5.1	6

39	Soft Liquid Metal Infused Conductive Sponges. *Advanced Materials Technologies*,2101500	6.8	6
38	Recent Developments in External Regulation of Reversible Addition Fragmentation Chain Transfer (RAFT) Polymerization. *ACS Symposium Series*, **2018**, 273-290	0.4	5
37	A Photoinduced Dual-Wavelength Approach for 3D Printing and Self-healing of Thermosetting Materials. *Angewandte Chemie - International Edition*, **2021**,	16.4	5
36	Photo RAFT Polymerization **2021**, 611-645		5
35	Polydiacetylene for the Detection of -Hemolysin in Milk toward the Diagnosis of Bovine Mastitis. *ACS Applied Polymer Materials*, **2020**, 2, 5238-5248	4.3	5
34	Controlled Polymerization: Beyond Traditional RAFT: Alternative Activation of Thiocarbonylthio Compounds for Controlled Polymerization (Adv. Sci. 9/2016). *Advanced Science*, **2016**, 3,	13.6	5
33	Rapid High-Resolution 3D Printing and Surface Functionalization via Type I Photoinitiated RAFT Polymerization. *Angewandte Chemie*, **2021**, 133, 8921-8932	3.6	5
32	Liquid Metal-Triggered Assembly of Phenolic Nanocoatings with Antioxidant and Antibacterial Properties. *ACS Applied Nano Materials*, **2021**, 4, 2987-2998	5.6	5
31	Merging New Organoborane Chemistry with Living Radical Polymerization. *CheM*, **2020**, 6, 1212-1214	16.2	4
30	Biomimetic polymers responsive to a biological signaling molecule: Nitric oxide (NO) triggered reversible self-assembly of single macromolecular chains into nanoparticles. *Journal of Controlled Release*, **2015**, 213, e55-6	11.7	4
29	Synthesis of Macromonomers and Telechelic Oligomers by Living Polymerizations **2011**, 775-812		4
28	Selective Photoactivation of Trithiocarbonates Mediated by Metal Naphthalocyanines and Overcoming Activation Barriers Using Thermal Energy.. *Journal of the American Chemical Society*, **2022**,	16.4	4
27	PNIPAM-immobilized gold-nanoparticles with colorimetric temperature-sensing and reusable temperature-switchable catalysis properties. *Polymer Chemistry*, **2021**, 12, 6903-6913	4.9	4
26	Two colours of light drive PET-RAFT photoligation. *Polymer Chemistry*, **2020**, 11, 6453-6462	4.9	4
25	Influence of Molecular Weight Distribution on the Thermoresponsive Transition of Poly(N-isopropylacrylamide). *Macromolecular Rapid Communications*, **2021**, 42, e2100212	4.8	4
24	Two-Dimensional Ultra-Thin Nanosheets with Extraordinarily High Drug Loading and Long Blood Circulation for Cancer Therapy.. *Small*, **2022**, e2200299	11	4
23	Scalable and Recyclable Heterogeneous Organo-photocatalysts on Cotton Threads for Organic and Polymer Synthesis. *ChemPhotoChem*, **2020**, 4, 5201-5208	3.3	3
22	Methionine-based carbon monoxide releasing polymer for the prevention of biofilm formation. *Polymer Chemistry*, **2021**, 12, 3968-3975	4.9	3

21	Sustained A1 Adenosine Receptor Antagonist Drug Release from Nanoparticles Functionalized by a Neural Tracing Protein. *ACS Chemical Neuroscience*, **2021**, 12, 4438-4448	5.7	2
20	Fire-Resistant Flexible Polyurethane Foams via Nature-Inspired Chitosan-Expandable Graphite Coatings. *ACS Applied Polymer Materials*, **2021**, 3, 4079-4087	4.3	2
19	Wet or dry multifunctional coating prepared by visible light polymerisation with fire retardant, thermal protective, and antimicrobial properties. *Cellulose*, **2021**, 28, 8821-8840	5.5	2
18	3D Printing based on photopolymerization and Photocatalysts: Review and Prospect. *Macromolecular Materials and Engineering*,2200010	3.9	2
17	Enhancing output performance of PVDF-HFP fiber-based nanogenerator by hybridizing silver nanowires and perovskite oxide nanocrystals. *Nano Energy*, **2022**, 98, 107343	17.1	2
16	Synthetic copolymer conjugates of docetaxel and in vitro assessment of anticancer efficacy. *New Journal of Chemistry*, **2020**, 44, 20013-20020	3.6	1
15	Facile Synthesis of Worm-like Micelles by Visible Light Mediated Dispersion Polymerization Using Photoredox Catalyst. *Journal of Visualized Experiments*, **2016**,	1.6	1
14	Nanosized-Zinc-Mediated Self-Gelation of Graphene Oxide under Ambient Conditions. *ChemPlusChem*, **2018**, 83, 947-955	2.8	1
13	Frontispiece: Synthesis of Discrete Oligomers by Sequential PET-RAFT Single-Unit Monomer Insertion. *Angewandte Chemie - International Edition*, **2017**, 56,	16.4	1
12	Disulfiram-loaded metal organic framework for precision cancer treatment via ultrasensitive tumor microenvironment-responsive copper chelation and radical generation.. *Journal of Colloid and Interface Science*, **2022**, 615, 517-526	9.3	1
11	Screening RAFT agents and photocatalysts to mediate PET-RAFT polymerization using a high throughput approach. *Polymer Chemistry*,	4.9	1
10	Miniemulsion polymerization via membrane emulsification: Exploring system feasibility for different monomers. *Colloid and Polymer Science*, **2022**, 300, 309	2.4	1
9	Cancer-associated fibroblasts in pancreatic ductal adenocarcinoma determine response to SLC7A11 inhibition		1
8	Solvent Effects on the Synthesis of Polymeric Nanoparticles via Block Copolymer Self-Assembly Using Microporous Membranes. *Materials Science Forum*, **2020**, 1000, 324-330	0.4	1
7	Silk Sponges with Surface Antimicrobial Activity. *ACS Applied Bio Materials*, **2021**, 4, 692-700	4.1	1
6	Frontispiece: A Photoinduced Dual-Wavelength Approach for 3D Printing and Self-Healing of Thermosetting Materials. *Angewandte Chemie - International Edition*, **2022**, 61,	16.4	1
5	Releasable antimicrobial polymer-silk coatings for combating multidrug-resistant bacteria. *Polymer Chemistry*, **2021**, 12, 7038-7047	4.9	0
4	2D Porphyrinic Metal□Organic Framework Nanosheets as Multidimensional Photocatalysts for Functional Materials. *Angewandte Chemie*, **2021**, 133, 22846	3.6	0

3	Photoactivation-triggered in situ self-supplied H2O2 for boosting chemodynamic therapy via layered double Hydroxide-mediated catalytic cascade reaction. *Chemical Engineering Journal*, **2022**, 137310	14.7	0
2	Cu(0)-Mediated Controlled/Living Radical Polymerization: A Tool for Precise Multiblock Copolymer Synthesis. *ACS Symposium Series*, **2014**, 201-212	0.4	
1	Macromol. Rapid Commun. 11/2016. *Macromolecular Rapid Communications*, **2016**, 37, 940	4.8	