Karen L Wooley

List of Publications by Citations

358 papers	28,947 citations	89 h-index	157 g-index
381 ext. papers	30,360 ext. citations	9.2 avg, IF	7.27 L-index

#	Paper	IF	Citations
358	Applications of orthogonal "click" chemistries in the synthesis of functional soft materials. *Chemical Reviews*, **2009**, 109, 5620-86	68.1	1278
357	Design of polymeric nanoparticles for biomedical delivery applications. *Chemical Society Reviews*, **2012**, 41, 2545-61	58.5	1250
356	The convergence of synthetic organic and polymer chemistries. *Science*, **2005**, 309, 1200-5	33.3	1169
355	Block copolymer assembly via kinetic control. *Science*, **2007**, 317, 647-50	33.3	909
354	Cross-linked block copolymer micelles: functional nanostructures of great potential and versatility. *Chemical Society Reviews*, **2006**, 35, 1068-83	58.5	795
353	Toroidal triblock copolymer assemblies. *Science*, **2004**, 306, 94-7	33.3	702
352	Nanocages Derived from Shell Cross-Linked Micelle Templates. *Journal of the American Chemical Society*, **1999**, 121, 3805-3806	16.4	566
351	Water-Soluble Knedel-like Structures: The Preparation of Shell-Cross-Linked Small Particles. *Journal of the American Chemical Society*, **1996**, 118, 7239-7240	16.4	490
350	Unique behavior of dendritic macromolecules: intrinsic viscosity of polyether dendrimers. *Macromolecules*, **1992**, 25, 2401-2406	5.5	482
349	Unimolecular micelles and globular amphiphiles: dendritic macromolecules as novel recyclable solubilization agents. *Journal of the Chemical Society Perkin Transactions 1*, **1993**, 1287-1297		424
348	The antifouling and fouling-release performance of hyperbranched fluoropolymer (HBFP)-poly(ethylene glycol) (PEG) composite coatings evaluated by adsorption of biomacromolecules and the green fouling alga Ulva. *Langmuir*, **2005**, 21, 3044-53	4	412
347	Shell Cross-Linked Nanoparticles Containing Hydrolytically Degradable, Crystalline Core Domains. *Journal of the American Chemical Society*, **2000**, 122, 3642-3651	16.4	372
346	Polymeric Nanostructures for Imaging and Therapy. *Chemical Reviews*, **2015**, 115, 10967-1011	68.1	351
345	Shell Cross-Linked Knedels: A Synthetic Study of the Factors Affecting the Dimensions and Properties of Amphiphilic Core-Shell Nanospheres. *Journal of the American Chemical Society*, **1997**, 119, 6656-6665	16.4	338
344	Hyperbranched macromolecules via a novel double-stage convergent growth approach. *Journal of the American Chemical Society*, **1991**, 113, 4252-4261	16.4	322
343	Shell click-crosslinked (SCC) nanoparticles: a new methodology for synthesis and orthogonal functionalization. *Journal of the American Chemical Society*, **2005**, 127, 16892-9	16.4	293
342	Physical properties of dendritic macromolecules: a study of glass transition temperature. *Macromolecules*, **1993**, 26, 1514-1519	5.5	262

341	Cytokines as biomarkers of nanoparticle immunotoxicity. *Chemical Society Reviews*, **2013**, 42, 5552-76	58.5	259
340	Functionalization of Micelles and Shell Cross-linked Nanoparticles Using Click Chemistry. *Chemistry of Materials*, **2005**, 17, 5976-5988	9.6	234
339	Facile syntheses of surface-functionalized micelles and shell cross-linked nanoparticles. *Journal of Polymer Science Part A*, **2006**, 44, 5203-5217	2.5	232
338	Hydrogel-Coated Glassy Nanospheres: A Novel Method for the Synthesis of Shell Cross-Linked Knedels. *Journal of the American Chemical Society*, **1997**, 119, 11653-11659	16.4	230
337	Dendrimers Clicked Together Divergently. *Macromolecules*, **2005**, 38, 5436-5443	5.5	227
336	Solvatochromism as a probe of the microenvironment in dendritic polyethers: transition from an extended to a globular structure. *Journal of the American Chemical Society*, **1993**, 115, 4375-4376	16.4	210
335	Novel Polyether Copolymers Consisting of Linear and Dendritic Blocks. *Angewandte Chemie International Edition in English*, **1992**, 31, 1200-1202		206
334	Shell crosslinked polymer assemblies: Nanoscale constructs inspired from biological systems **2000**, 38, 1397-1407		204
333	The preparation of t-butyl acrylate, methyl acrylate, and styrene block copolymers by atom transfer radical polymerization: Precursors to amphiphilic and hydrophilic block copolymers and conversion to complex nanostructured materials. *Journal of Polymer Science Part A*, **2000**, 38, 4805-4820	2.5	204
332	Molecular Ball Bearings: The Unusual Melt Viscosity Behavior of Dendritic Macromolecules. *Journal of the American Chemical Society*, **1995**, 117, 4409-4410	16.4	200
331	Tandem synthesis of core-shell brush copolymers and their transformation to peripherally cross-linked and hollowed nanostructures. *Journal of the American Chemical Society*, **2006**, 128, 6808-9	16.4	198
330	An assessment of the effects of shell cross-linked nanoparticle size, core composition, and surface PEGylation on in vivo biodistribution. *Biomacromolecules*, **2005**, 6, 2541-54	6.9	193
329	Influence of shape on the reactivity and properties of dendritic, hyperbranched and linear aromatic polyesters. *Polymer*, **1994**, 35, 4489-4495	3.9	191
328	Hyperbranched fluoropolymer and linear poly(ethylene glycol) based amphiphilic crosslinked networks as efficient antifouling coatings: An insight into the surface compositions, topographies, and morphologies. *Journal of Polymer Science Part A*, **2004**, 42, 6193-6208	2.5	190
327	Determination of the bioavailability of biotin conjugated onto shell cross-linked (SCK) nanoparticles. *Journal of the American Chemical Society*, **2004**, 126, 6599-607	16.4	172
326	Shape effects of nanoparticles conjugated with cell-penetrating peptides (HIV Tat PTD) on CHO cell uptake. *Bioconjugate Chemistry*, **2008**, 19, 1880-7	6.3	165
325	Helix self-assembly through the coiling of cylindrical micelles. *Soft Matter*, **2007**, 4, 90-93	3.6	158
324	Triple-Shape Memory Polymers Based on Self-Complementary Hydrogen Bonding. *Macromolecules*, **2012**, 45, 1062-1069	5.5	157

323	Improving paclitaxel delivery: in vitro and in vivo characterization of PEGylated polyphosphoester-based nanocarriers. *Journal of the American Chemical Society*, **2015**, 137, 2056-66	16.4	156
322	Rapid and versatile construction of diverse and functional nanostructures derived from a polyphosphoester-based biomimetic block copolymer system. *Journal of the American Chemical Society*, **2012**, 134, 18467-74	16.4	155
321	Folic acid-conjugated nanostructured materials designed for cancer cell targeting. *Chemical Communications*, **2003**, 2400-1	5.8	155
320	Synthesis and properties of novel linear-dendritic block copolymers. Reactivity of dendritic macromolecules toward linear polymers. *Macromolecules*, **1993**, 26, 5621-5627	5.5	154
319	FACILE PREPARATION OF NANOPARTICLES BY INTRAMOLECULAR CROSSLINKING OF ISOCYANATE FUNCTIONALIZED COPOLYMERS. *Macromolecules*, **2009**, 42, 5629-5635	5.5	152
318	Dynamic cylindrical assembly of triblock copolymers by a hierarchical process of covalent and supramolecular interactions. *Journal of the American Chemical Society*, **2011**, 133, 1228-31	16.4	149
317	Fullerene-bound dendrimers: soluble, isolated carbon clusters. *Journal of the American Chemical Society*, **1993**, 115, 9836-9837	16.4	147
316	Synthesis and characterization of core-shell star copolymers for in vivo PET imaging applications. *Biomacromolecules*, **2008**, 9, 1329-39	6.9	140
315	Functionalized micellar assemblies prepared via block copolymers synthesized by living free radical polymerization upon peptide-loaded resins. *Biomacromolecules*, **2005**, 6, 220-8	6.9	140
314	Research in Macromolecular Science: Challenges and Opportunities for the Next Decade. *Macromolecules*, **2009**, 42, 465-471	5.5	139
313	Nanostructured materials designed for cell binding and transduction. *Biomacromolecules*, **2001**, 2, 362-86	6.9	139
312	Fabrication of hybrid nanocapsules by calcium phosphate mineralization of shell cross-linked polymer micelles and nanocages. *Nano Letters*, **2005**, 5, 1457-61	11.5	138
311	Synthesis of Hetero-Grafted Amphiphilic Diblock Molecular Brushes and Their Self-Assembly in Aqueous Medium. *Macromolecules*, **2010**, 43, 1182-1184	5.5	135
310	Fluorogenic 1,3-dipolar cycloaddition within the hydrophobic core of a shell cross-linked nanoparticle. *Chemistry - A European Journal*, **2006**, 12, 6776-86	4.8	134
309	Unique toroidal morphology from composition and sequence control of triblock copolymers. *Journal of the American Chemical Society*, **2005**, 127, 8592-3	16.4	134
308	Peptide-polymer bioconjugates: hybrid block copolymers generated via living radical polymerizations from resin-supported peptides. *Chemical Communications*, **2003**, 180-1	5.8	133
307	Unsymmetrical three-dimensional macromolecules: preparation and characterization of strongly dipolar dendritic macromolecules. *Journal of the American Chemical Society*, **1993**, 115, 11496-11505	16.4	133
306	Facile Synthesis of Clickable, Water-soluble and Degradable Polyphosphoesters. *ACS Macro Letters*, **2012**, 1, 328-333	6.6	131

305	Shapes of Dendrimers from Rotational-Echo Double-Resonance NMR. *Journal of the American Chemical Society*, **1997**, 119, 53-58	16.4	131
304	One-Step Synthesis of Hyperbranched Polyesters. Molecular Weight Control and Chain End Functionalization. *Polymer Journal*, **1994**, 26, 187-197	2.7	127
303	Facile syntheses of cylindrical molecular brushes by a sequential RAFT and ROMP "grafting-through" methodology. *Journal of Polymer Science Part A*, **2009**, 47, 5557-5563	2.5	126
302	64Cu-labeled folate-conjugated shell cross-linked nanoparticles for tumor imaging and radiotherapy: synthesis, radiolabeling, and biologic evaluation. *Journal of Nuclear Medicine*, **2005**, 46, 1210-8	8.9	125
301	The importance of chemistry in creating well-defined nanoscopic embedded therapeutics: devices capable of the dual functions of imaging and therapy. *Accounts of Chemical Research*, **2011**, 44, 969-78	24.3	122
300	Disk-cylinder and disk-sphere nanoparticles via a block copolymer blend solution construction. *Nature Communications*, **2013**, 4, 2297	17.4	120
299	The advantages of nanoparticles for PET. *Journal of Nuclear Medicine*, **2009**, 50, 1743-6	8.9	116
298	Structural effects on the biodistribution and positron emission tomography (PET) imaging of well-defined (64)Cu-labeled nanoparticles comprised of amphiphilic block graft copolymers. *Biomacromolecules*, **2007**, 8, 3126-34	6.9	116
297	Facile one-pot synthesis of brush polymers through tandem catalysis using Grubbs' catalyst for both ring-opening metathesis and atom transfer radical polymerizations. *Nano Letters*, **2006**, 6, 1741-6	11.5	115
296	Copper-64-alloyed gold nanoparticles for cancer imaging: improved radiolabel stability and diagnostic accuracy. *Angewandte Chemie - International Edition*, **2014**, 53, 156-9	16.4	114
295	Degradability of poly(lactic acid)-containing nanoparticles: enzymatic access through a cross-linked shell barrier. *Journal of the American Chemical Society*, **2012**, 134, 1235-42	16.4	111
294	Shell-crosslinked nanostructures from amphiphilic AB and ABA block copolymers of styrene-alt-(maleic anhydride) and styrene: polymerization, assembly and stabilization in one pot. *Chemical Communications*, **2005**, 3259-61	5.8	111
293	Poly(ethylene oxide)-block-polyphosphoester-graft-paclitaxel conjugates with acid-labile linkages as a pH-sensitive and functional nanoscopic platform for paclitaxel delivery. *Advanced Healthcare Materials*, **2014**, 3, 441-8	10.1	110
292	A Branched-Monomer Approach for the Rapid Synthesis of Dendimers. *Angewandte Chemie International Edition in English*, **1994**, 33, 82-85		110
291	Synthesis, characterization, and bioavailability of mannosylated shell cross-linked nanoparticles. *Biomacromolecules*, **2004**, 5, 903-13	6.9	107
290	Robust magnetic/polymer hybrid nanoparticles designed for crude oil entrapment and recovery in aqueous environments. *ACS Nano*, **2013**, 7, 7552-61	16.7	106
289	Amphiphilic and hydrophobic surface patterns generated from hyperbranched fluoropolymer/linear polymer networks: Minimally adhesive coatings via the crosslinking of hyperbranched fluoropolymers. *Journal of Polymer Science Part A*, **2003**, 41, 3531-3540	2.5	106
288	Poly(ethylene oxide)--polyphosphester-based Paclitaxel Conjugates as a Platform for Ultra-high Paclitaxel-loaded Multifunctional Nanoparticles. *Chemical Science*, **2013**, 4, 2122-2126	9.4	105

287	Nanoparticles with tunable internal structure from triblock copolymers of PAA-b-PMA-b-PS. *Nano Letters*, **2008**, 8, 2023-6	11.5	105
286	Amphiphilic hyperbranched fluoropolymers as nanoscopic 19F magnetic resonance imaging agent assemblies. *Biomacromolecules*, **2008**, 9, 2826-33	6.9	103
285	Disk morphology and disk-to-cylinder tunability of poly(acrylic acid)-b-poly(methyl acrylate)-b-polystyrene triblock copolymer solution-state assemblies. *Langmuir*, **2005**, 21, 7533-9	4	103
284	Monomer design strategies to create natural product-based polymer materials. *Natural Product Reports*, **2017**, 34, 433-459	15.1	101
283	Polymers with controlled molecular architecture: control of surface functionality in the synthesis of dendritic hyperbranched macromolecules using the convergent approach. *Journal of the Chemical Society Perkin Transactions 1*, **1991**, 1059-1076		99
282	pH-Responsive Shell Cross-Linked Nanoparticles with Hydrolytically Labile Cross-Links. *Macromolecules*, **2008**, 41, 6605-6607	5.5	98
281	Neutron Reflectivity and Structure of Polyether Dendrimers as Langmuir Films. *The Journal of Physical Chemistry*, **1995**, 99, 8283-8289		98
280	Well-defined carbon nanoparticles prepared from water-soluble shell cross-linked micelles that contain polyacrylonitrile cores. *Angewandte Chemie - International Edition*, **2004**, 43, 2783-7	16.4	97
279	One-Pot Tandem Synthesis of a Core−Shell Brush Copolymer from Small Molecule Reactants by Ring-Opening Metathesis and Reversible Addition−Fragmentation Chain Transfer (Co)polymerizations. *Macromolecules*, **2007**, 40, 2289-2292	5.5	96
278	Comb polymers prepared by ATRP from hydroxypropyl cellulose. *Biomacromolecules*, **2007**, 8, 1138-48	6.9	96
277	Polycarbonates derived from glucose via an organocatalytic approach. *Journal of the American Chemical Society*, **2013**, 135, 6826-9	16.4	95
276	Amphiphilic core−shell nanospheres obtained by intramicellar shell crosslinking of polymer micelles with poly(ethylene oxide) linkers. *Chemical Communications*, **1998**, 1415-1416	5.8	95
275	Controlling Micellar Structure of Amphiphilic Charged Triblock Copolymers in Dilute Solution via Coassembly with Organic Counterions of Different Spacer Lengths. *Macromolecules*, **2006**, 39, 6599-6607	5.5	95
274	Synthesis and Characterization of Hyperbranched Polycarbonates. *Macromolecules*, **1997**, 30, 1890-1896	5.5	93
273	Nanoscopic cylindrical dual concentric and lengthwise block brush terpolymers as covalent preassembled high-resolution and high-sensitivity negative-tone photoresist materials. *Journal of the American Chemical Society*, **2013**, 135, 4203-6	16.4	92
272	COMPLEX AMPHIPHILIC HYPERBRANCHED FLUOROPOLYMERS BY ATOM TRANSFER RADICAL SELF-CONDENSING VINYL (CO)POLYMERIZATION. *Macromolecules*, **2007**, 40, 4509-4515	5.5	92
271	Origins of toroidal micelle formation through charged triblock copolymer self-assembly. *Soft Matter*, **2009**, 5, 1269-1278	3.6	89
270	Cyclization in Hyperbranched Polymer Syntheses: Characterization by MALDI-TOF Mass Spectrometry. *Journal of the American Chemical Society*, **1998**, 120, 10180-10186	16.4	89

269	Synthesis, Characterization, and Derivatization of Hyperbranched Polyfluorinated Polymers. *Macromolecules*, **1998**, 31, 776-786	5.5	89
268	Facile, efficient approach to accomplish tunable chemistries and variable biodistributions for shell cross-linked nanoparticles. *Biomacromolecules*, **2008**, 9, 1997-2006	6.9	87
267	Synthesis and in vivo pharmacokinetic evaluation of degradable shell cross-linked polymer nanoparticles with poly(carboxybetaine) versus poly(ethylene glycol) surface-grafted coatings. *ACS Nano*, **2012**, 6, 8970-82	16.7	86
266	A facile glovebox-free strategy to significantly accelerate the syntheses of well-defined polypeptides by -carboxyanhydride (NCA) ring opening polymerizations. *Macromolecules*, **2013**, 46, 4223-4226	5.5	86
265	Two-dimensional, shell-cross-linked nanoparticle arrays. *Journal of the American Chemical Society*, **2001**, 123, 4627-8	16.4	86
264	A genetically encoded acrylamide functionality. *ACS Chemical Biology*, **2013**, 8, 1664-70	4.9	85
263	Dendritic fullerenes; a new approach to polymer modification of C60. *Journal of the Chemical Society Chemical Communications*, **1994**, 925-926		85
262	Absorbable hemostatic hydrogels comprising composites of sacrificial templates and honeycomb-like nanofibrous mats of chitosan. *Nature Communications*, **2019**, 10, 2307	17.4	82
261	Preparation of orthogonally-functionalized core Click cross-linked nanoparticles. *New Journal of Chemistry*, **2007**, 31, 718-724	3.6	80
260	Chemically induced supramolecular reorganization of triblock copolymer assemblies: trapping of intermediate states via a shell-crosslinking methodology. *Proceedings of the National Academy of Sciences of the United States of America*, **2002**, 99, 5058-63	11.5	80
259	Chemical Design of Both a Glutathione-Sensitive Dimeric Drug Guest and a Glucose-Derived Nanocarrier Host to Achieve Enhanced Osteosarcoma Lung Metastatic Anticancer Selectivity. *Journal of the American Chemical Society*, **2018**, 140, 1438-1446	16.4	78
258	Strategies Toward Well-Defined Polymer Nanoparticles Inspired by Nature: Chemistry versus Versatility. *Journal of Polymer Science Part A*, **2012**, 50, 1869-1880	2.5	78
257	Well-Defined Polymers Bearing Pendent Alkene Functionalities via Selective RAFT Polymerization. *Macromolecules*, **2008**, 41, 9080-9089	5.5	78
256	19F- and fluorescently labeled micelles as nanoscopic assemblies for chemotherapeutic delivery. *Bioconjugate Chemistry*, **2008**, 19, 2492-8	6.3	76
255	Reversible Addition Fragmentation Chain Transfer (RAFT) Polymerization of 4-Vinylbenzaldehyde. *Macromolecules*, **2007**, 40, 793-795	5.5	75
254	Multicompartment polymer nanostructures with ratiometric dual-emission pH-sensitivity. *Journal of the American Chemical Society*, **2011**, 133, 8534-43	16.4	74
253	Preparation and in vitro antimicrobial activity of silver-bearing degradable polymeric nanoparticles of polyphosphoester-block-poly(L-lactide). *ACS Nano*, **2015**, 9, 1995-2008	16.7	73
252	Nanoscale Cage-like Structures Derived from Polyisoprene-Containing Shell Cross-linked Nanoparticle Templates. *Nano Letters*, **2004**, 4, 683-688	11.5	72

251	Isoprene polymerization via reversible addition fragmentation chain transfer polymerization. *Journal of Polymer Science Part A*, **2007**, 45, 4100-4108	2.5	71
250	Shell cross-linked polymer micelles: stabilized assemblies with great versatility and potential. *Colloids and Surfaces B: Biointerfaces*, **1999**, 16, 45-54	6	71
249	Dendrimer and polystyrene surfactant structure at the air-water interface. *The Journal of Physical Chemistry*, **1993**, 97, 293-294		71
248	Multicompartment and multigeometry nanoparticle assembly. *Soft Matter*, **2011**, 7, 2500	3.6	70
247	Endosomal escape and siRNA delivery with cationic shell crosslinked knedel-like nanoparticles with tunable buffering capacities. *Biomaterials*, **2012**, 33, 8557-68	15.6	69
246	Peptide-derivatized shell-cross-linked nanoparticles. 1. Synthesis and characterization. *Bioconjugate Chemistry*, **2004**, 15, 699-709	6.3	68
245	Environmentally-Responsive, Entirely Hydrophilic, Shell Cross-linked (SCK) Nanoparticles. *Nano Letters*, **2001**, 1, 651-655	11.5	68
244	Folate-mediated Cell Uptake of Shell-crosslinked Spheres and Cylinders. *Journal of Polymer Science Part A*, **2008**, 46, 7578-7583	2.5	67
243	Hyperbranched fluoropolymer-polydimethylsiloxane-poly(ethylene glycol) cross-linked terpolymer networks designed for marine and biomedical applications: heterogeneous nontoxic antibiofouling surfaces. *ACS Applied Materials & Interfaces*, **2014**, 6, 19265-74	9.5	66
242	64Cu Core-labeled nanoparticles with high specific activity via metal-free click chemistry. *ACS Nano*, **2012**, 6, 5209-19	16.7	66
241	Bright fluorescent nanoparticles for developing potential optical imaging contrast agents. *Nanoscale*, **2010**, 2, 548-58	7.7	66
240	Hierarchical Assembly of Complex Block Copolymer Nanoparticles into Multicompartment Superstructures through Tunable Interparticle Associations. *Advanced Functional Materials*, **2013**, 23, 1767-1773	15.6	65
239	Strategies for Optimized Radiolabeling of Nanoparticles for in vivo PET Imaging. *Advanced Materials*, **2007**, 19, 3157-3162	24	65
238	Well-defined vinyl ketone-based polymers by reversible addition-fragmentation chain transfer polymerization. *Journal of the American Chemical Society*, **2007**, 129, 10086-7	16.4	64
237	Diblock copolymers, micelles, and shell-crosslinked nanoparticles containing poly(4-fluorostyrene): Tools for detailed analyses of nanostructured materials. *Journal of Polymer Science Part A*, **2001**, 39, 4152-4166	2.5	64
236	Fundamental design aspects of amphiphilicshell-crosslinked nanoparticles for controlled release applications. *Chemical Communications*, **2001**, 773-774	5.8	64
235	Benzaldehyde-functionalized polymer vesicles. *ACS Nano*, **2009**, 3, 673-81	16.7	63
234	A Simple and Efficient Synthesis of an Acid-labile Polyphosphoramidate by Organobase-catalyzed Ring-Opening Polymerization and Transformation to Polyphosphoester Ionomers by Acid Treatment. *Macromolecules*, **2013**, 46, 5141-5149	5.5	62

233	Hyperbranched fluorocopolymers by atom transfer radical self-condensing vinyl copolymerization. *Journal of Polymer Science Part A*, **2005**, 43, 4754-4770	2.5	62
232	Development of a Vinyl Ether-Functionalized Polyphosphoester as a Template for Multiple Postpolymerization Conjugation Chemistries and Study of Core Degradable Polymeric Nanoparticles. *Macromolecules*, **2014**, 47, 4634-4644	5.5	61
231	From Dendrimers to Knedel-like Structures. *Chemistry - A European Journal*, **1997**, 3, 1397-1399	4.8	61
230	ATRP from a Norbornenyl-Functionalized Initiator: Balancing of Complementary Reactivity for the Preparation of ω-Norbornenyl Macromonomers/ω-Haloalkyl Macroinitiators. *Macromolecules*, **2005**, 38, 9455-9465	5.5	60
229	Polymeric nanoparticles in development for treatment of pulmonary infectious diseases. *Wiley Interdisciplinary Reviews: Nanomedicine and Nanobiotechnology*, **2016**, 8, 842-871	9.2	60
228	Peptide-derivatized shell-cross-linked nanoparticles. 2. Biocompatibility evaluation. *Bioconjugate Chemistry*, **2004**, 15, 710-7	6.3	59
227	Cationic shell-crosslinked knedel-like nanoparticles for highly efficient gene and oligonucleotide transfection of mammalian cells. *Biomaterials*, **2009**, 30, 968-77	15.6	58
226	The preparation of ω-t-butyl acrylate, methyl acrylate, and styrene block copolymers by atom transfer radical polymerization: Precursors to amphiphilic and hydrophilic block copolymers and conversion to complex nanostructured materials. *Journal of Polymer Science Part A*, **2000**, 38, 4805-4820	2.5	58
225	A Processable Shape Memory Polymer System for Biomedical Applications. *Advanced Healthcare Materials*, **2015**, 4, 1386-98	10.1	57
224	Solution and Surface Charge Properties of Shell Cross-Linked Knedel Nanoparticles. *Macromolecules*, **1999**, 32, 3685-3689	5.5	57
223	Tuning core vs. shell dimensions to adjust the performance of nanoscopic containers for the loading and release of doxorubicin. *Journal of Controlled Release*, **2011**, 152, 37-48	11.7	56
222	Characterization of Poly(norbornene) Dendronized Polymers Prepared by Ring-Opening Metathesis Polymerization of Dendron Bearing Monomers. *Macromolecules*, **2006**, 39, 7241-7249	5.5	56
221	Gold Nanoclusters Doped with (64)Cu for CXCR4 Positron Emission Tomography Imaging of Breast Cancer and Metastasis. *ACS Nano*, **2016**, 10, 5959-70	16.7	56
220	Detection of living anionic species in polymerization reactions using hyperpolarized NMR. *Journal of the American Chemical Society*, **2013**, 135, 4636-9	16.4	55
219	Synthesis and Direct Visualization of Dumbbell-Shaped Molecular Brushes.. *ACS Macro Letters*, **2012** , 1, 241-245	6.6	55
218	Surface charges and shell crosslinks each play significant roles in mediating degradation, biofouling, cytotoxicity and immunotoxicity for polyphosphoester-based nanoparticles. *Scientific Reports*, **2013**, 3, 3313	4.9	55
217	Degradable polyphosphoester-based silver-loaded nanoparticles as therapeutics for bacterial lung infections. *Nanoscale*, **2015**, 7, 2265-70	7.7	54
216	Hyperbranched Fluoropolymers and their Hybridization into Complex Amphiphilic Crosslinked Copolymer Networks. *Macromolecular Chemistry and Physics*, **2007**, 208, 1676-1687	2.6	54

215	Orthogonally dual-clickable Janus nanoparticles via a cyclic templating strategy. *Journal of the American Chemical Society*, **2011**, 133, 11046-9	16.4	53
214	Hybrid rigid/soft and biologic/synthetic materials: polymers grafted onto cellulose microcrystals. *Biomacromolecules*, **2011**, 12, 1214-23	6.9	53
213	Polypeptide organic radical batteries. *Nature*, **2021**, 593, 61-66	50.4	53
212	Shell Cross-Linked Nanoparticles Designed To Target Angiogenic Blood Vessels via □□ Receptor□ligand Interactions. *Macromolecules*, **2004**, 37, 7109-7115	5.5	52
211	Packaging of DNA by shell crosslinked nanoparticles. *Nucleic Acids Research*, **1999**, 27, 2966-71	20.1	52
210	Multisite functionalized dendritic macromolecules prepared via metalation by superbases and reaction with electrophiles. *Journal of the American Chemical Society*, **1993**, 115, 7043-7044	16.4	52
209	Facile syntheses of 4-vinyl-1,2,3-triazole monomers by click azide/acetylene coupling. *Journal of Polymer Science Part A*, **2008**, 46, 2897-2912	2.5	51
208	Unusual mechanical performance of amphiphilic crosslinked polymer networks. *Journal of the American Chemical Society*, **2007**, 129, 506-7	16.4	50
207	Controlled stacking of charged block copolymer micelles. *Langmuir*, **2007**, 23, 4689-94	4	49
206	Facile Formation of Uniform Shell-Crosslinked Nanoparticles with Built-in Functionalities from N-Hydroxysuccinimide-Activated Amphiphilic Block Copolymers. *Advanced Functional Materials*, **2008**, 18, 551-559	15.6	49
205	Data Mining as a Guide for the Construction of Cross-Linked Nanoparticles with Low Immunotoxicity via Control of Polymer Chemistry and Supramolecular Assembly. *Accounts of Chemical Research*, **2015**, 48, 1620-30	24.3	48
204	In vitro efficacy of paclitaxel-loaded dual-responsive shell cross-linked polymer nanoparticles having orthogonally degradable disulfide cross-linked corona and polyester core domains. *Molecular Pharmaceutics*, **2013**, 10, 1092-9	5.6	48
203	Thermal shaping of shell-crosslinked (SCK) nanoparticles, facilitated by nanoconfinement of fluid-like cores. *Journal of Materials Chemistry*, **2003**, 13, 2785-2795		47
202	Tunable mechano-responsive organogels by ring-opening copolymerizations of -carboxyanhydrides. *Chemical Science*, **2014**, 5,	9.4	46
201	Cationic shell-cross-linked knedel-like (cSCK) nanoparticles for highly efficient PNA delivery. *Molecular Pharmaceutics*, **2009**, 6, 615-26	5.6	46
200	Structure-activity relationships of cationic shell-crosslinked knedel-like nanoparticles: shell composition and transfection efficiency/cytotoxicity. *Biomaterials*, **2010**, 31, 1805-13	15.6	46
199	Synthesis of Core-Crosslinked Nanoparticles with Controlled Cylindrical Shape and Narrowly-Dispersed Size via Core-Shell Brush Block Copolymer Templates. *Advanced Materials*, **2007**, 19, 2830-2835	24	46
198	Functional sugar-based polymers and nanostructures comprised of degradable poly(D-glucose carbonate)s. *Polymer Chemistry*, **2017**, 8, 1699-1707	4.9	44

197	Hierarchically assembled theranostic nanostructures for siRNA delivery and imaging applications. *Journal of the American Chemical Society*, **2012**, 134, 17362-5	16.4	44
196	Noradrenaline-functionalized hyperbranched fluoropolymer-poly(ethylene glycol) cross-linked networks as dual-mode, anti-biofouling coatings. *ACS Nano*, **2012**, 6, 1503-12	16.7	44
195	Labeling of Polymer Nanostructures for Medical Imaging: Importance of crosslinking extent, spacer length, and charge density. *Macromolecules*, **2007**, 40, 2971-2973	5.5	44
194	ATRP from an amino acid-based initiator: A facile approach for α-functionalized polymers. *Macromolecules*, **2006**, 39, 9661-9664	5.5	44
193	Shell crosslinked nanoparticles carrying silver antimicrobials as therapeutics. *Chemical Communications*, **2010**, 46, 121-3	5.8	43
192	Antigen-decorated shell cross-linked nanoparticles: synthesis, characterization, and antibody interactions. *Bioconjugate Chemistry*, **2005**, 16, 1246-56	6.3	43
191	Nanomedicine in management of hepatocellular carcinoma: Challenges and opportunities. *International Journal of Cancer*, **2017**, 140, 1475-1484	7.5	42
190	One-pot, facile synthesis of well-defined molecular brush copolymers by a tandem RAFT and ROMP, "grafting-through" strategy. *Journal of Polymer Science Part A*, **2012**, 50, 1681-1688	2.5	42
189	Evaluation of Isoprene Chain Extension from PEO Macromolecular Chain Transfer Agents for the Preparation of Dual, Invertible Block Copolymer Nanoassemblies. *Macromolecules*, **2010**, 43, 7128-7138	5.5	41
188	Perfluorocarbon-loaded Shell Crosslinked Knedel-like Nanoparticles: Lessons regarding polymer mobility and self assembly. *Journal of Polymer Science Part A*, **2009**, 47, 1023-1037	2.5	41
187	Neuartige Polyethercopolymere mit einer linearen Zentraleinheit und dendritischen Endgruppen. *Angewandte Chemie*, **1992**, 104, 1282-1285	3.6	41
186	Synthesis, characterization, and in vivo efficacy of shell cross-linked nanoparticle formulations carrying silver antimicrobials as aerosolized therapeutics. *ACS Nano*, **2013**, 7, 4977-87	16.7	40
185	The Convergent Route to Globular Dendritic Macromolecules: A Versatile Approach to Precisely Functionauzed Three-Dimensional Polymers and Novel Block Copolymers. *Journal of Macromolecular Science - Pure and Applied Chemistry*, **1994**, 31, 1627-1645	2.2	40
184	Multifunctional hierarchically assembled nanostructures as complex stage-wise dual-delivery systems for coincidental yet differential trafficking of siRNA and paclitaxel. *Nano Letters*, **2013**, 13, 2172-81	11.5	39
183	SCKs as nanoparticle carriers of doxorubicin: investigation of core composition on the loading, release and cytotoxicity profiles. *Chemical Communications*, **2008**, 3579-81	5.8	39
182	Regiochemical functionalization of a nanoscale cage-like structure: robust core-shell nanostructures crafted as vessels for selective uptake and release of small and large guests. *Journal of Controlled Release*, **2005**, 109, 189-202	11.7	39
181	Stimuli-Triggered Sol-Gel Transitions of Polypeptides Derived from α-Amino Acid N-Carboxyanhydride (NCA) Polymerizations. *Chemistry - an Asian Journal*, **2016**, 11, 437-47	4.5	39
180	Shell crosslinked knedel-like nanoparticles for delivery of cisplatin: effects of crosslinking. *Nanoscale*, **2013**, 5, 3220-5	7.7	38

179	Model Diels-Alder Studies for the Creation of Amphiphilic Cross-Linked Networks as Healable, Antibiofouling Coatings.. *ACS Macro Letters*, **2012**, 1, 473-477	6.6	38
178	Hyperbranched aryl polycarbonates derived from A2B monomers versus AB2 monomers. *Journal of Polymer Science Part A*, **2002**, 40, 823-835	2.5	38
177	A high-performance recycling solution for polystyrene achieved by the synthesis of renewable poly(thioether) networks derived from D-limonene. *Advanced Materials*, **2014**, 26, 1552-8	24	37
176	Cycloalkenyl-Functionalized Polymers and Block Copolymers: Syntheses via Selective RAFT Polymerizations and Demonstration of Their Versatile Reactivity. *Macromolecules*, **2009**, 42, 1565-1573	5.5	37
175	Complex amphiphilic networks derived from diamine-terminated poly(ethylene glycol) and benzylic chloride-functionalized hyperbranched fluoropolymers. *Journal of Polymer Science Part A*, **2006**, 44, 4782-4794	2.5	37
174	Influence of the structure of nanoscopic building blocks on the assembly of micropatterned surfaces. *Journal of Polymer Science Part A*, **2006**, 44, 5218-5228	2.5	37
173	Thermally-Induced (Re)shaping of Core□Shell Nanocrystalline Particles. *Nano Letters*, **2002**, 2, 1051-1054	11.5	37
172	Organocatalyzed ROP of a Glucopyranoside Derived Five-Membered Cyclic Carbonate. *Macromolecules*, **2018**, 51, 1787-1797	5.5	36
171	Synthetic, Functional Thymidine-Derived Polydeoxyribonucleotide Analogues from a Six-Membered Cyclic Phosphoester. *Journal of the American Chemical Society*, **2017**, 139, 5467-5473	16.4	35
170	Crystallization-driven assembly of fully degradable, natural product-based poly(l-lactide)-block-poly(□d-glucose carbonate)s in aqueous solution. *Polymer*, **2017**, 122, 270-279	3.9	35
169	Nanodroplets of polyisoprene fluid contained within poly(acrylic acid-co-acrylamide) shells. *Journal of Polymer Science Part A*, **2003**, 41, 1659-1668	2.5	35
168	Targeted surface nanocomplexity: two-dimensional control over the composition, physical properties and anti-biofouling performance of hyperbranched fluoropolymer□poly(ethylene glycol) amphiphilic crosslinked networks. *Polymer Chemistry*, **2012**, 3, 3121	4.9	34
167	Advancing the Development of Highly-Functionalizable Glucose-Based Polycarbonates by Tuning of the Glass Transition Temperature. *Journal of the American Chemical Society*, **2018**, 140, 16053-16057	16.4	34
166	Multigeometry Nanoparticles: Hybrid Vesicle/Cylinder Nanoparticles Constructed with Block Copolymer Solution Assembly and Kinetic Control. *Macromolecules*, **2015**, 48, 5621-5631	5.5	33
165	Local order in polycarbonate glasses by 13C{19F} rotational-echo double-resonance NMR. *Journal of Polymer Science, Part B: Polymer Physics*, **2006**, 44, 2760-2775	2.6	33
164	Degradable cationic shell cross-linked knedel-like nanoparticles: synthesis, degradation, nucleic acid binding, and in vitro evaluation. *Biomacromolecules*, **2013**, 14, 1018-27	6.9	32
163	Design of targeted cardiovascular molecular imaging probes. *Journal of Nuclear Medicine*, **2010**, 51 Suppl 1, 3S-17S	8.9	32
162	Sequential and Single-Step, One-Pot Strategies for the Transformation of Hydrolytically Degradable Polyesters into Multifunctional Systems. *Macromolecules*, **2008**, 41, 1618-1626	5.5	32

161	RAFT-Based Synthesis and Characterization of ABC versus ACB Triblock Copolymers Containing tert-Butyl Acrylate, Isoprene, and Styrene Blocks. *Macromolecular Chemistry and Physics*, **2007**, 208, 2481-2491	2.6	32
160	Differential immunotoxicities of poly(ethylene glycol)- vs. poly(carboxybetaine)-coated nanoparticles. *Journal of Controlled Release*, **2013**, 172, 641-52	11.7	31
159	Dual peptide nucleic acid- and peptide-functionalized shell cross-linked nanoparticles designed to target mRNA toward the diagnosis and treatment of acute lung injury. *Bioconjugate Chemistry*, **2012**, 23, 574-85	6.3	31
158	Poly(D-glucose carbonate) block copolymers: a platform for natural product-based nanomaterials with Solvothermatic characteristics. *Biomacromolecules*, **2013**, 14, 3346-53	6.9	31
157	Construction of a Reactive Diblock Copolymer, Polyphosphoester--Poly(L-lactide), as a Versatile Framework for Functional Materials that are Capable of Full Degradation and Nanoscopic Assembly Formation. *ACS Macro Letters*, **2013**, 2,	6.6	31
156	Assessment of Copper Nanoclusters for Accurate in Vivo Tumor Imaging and Potential for Translation. *ACS Applied Materials & Interfaces*, **2019**, 11, 19669-19678	9.5	30
155	Synthesis and Physical Properties of Thiol-Ene Networks Utilizing Plant-Derived Phenolic Acids. *Macromolecules*, **2015**, 48, 8418-8427	5.5	30
154	In vivo fate tracking of degradable nanoparticles for lung gene transfer using PET and Cerenkov imaging. *Biomaterials*, **2016**, 98, 53-63	15.6	30
153	Two-Dimensional Controlled Syntheses of Polypeptide Molecular Brushes via -Carboxyanhydride Ring-Opening Polymerization and Ring-Opening Metathesis Polymerization. *ACS Macro Letters*, **2017**, 6, 1031-1035	6.6	30
152	Antibiofouling hybrid dendritic Boltorn/star PEG thiol-ene cross-linked networks. *ACS Applied Materials & Interfaces*, **2011**, 3, 2118-29	9.5	30
151	Complex, degradable polyester materials via ketoxime ether-based functionalization: Amphiphilic, multifunctional graft copolymers and their resulting solution-state aggregates. *Journal of Polymer Science Part A*, **2010**, 48, 3553-3563	2.5	30
150	Thiol-functionalized shell crosslinked knedel-like (SCK) nanoparticles: A versatile entry for their conjugation with biomacromolecules. *Tetrahedron*, **2008**, 64, 8543-8552	2.4	30
149	Conformation of intramolecularly cross-linked polymer nanoparticles on solid substrates. *Nano Letters*, **2005**, 5, 1704-9	11.5	30
148	Unusual, promoted release of guests from amphiphilic cross-linked polymer networks. *Journal of the American Chemical Society*, **2005**, 127, 11238-9	16.4	30
147	Linear and Hyperbranched Poly(silyl ester)s: Synthesis via Cross-Dehydrocoupling-Based Polymerization, Hydrolytic Degradation Properties, and Morphological Analysis by Atomic Force Microscopy. *Macromolecules*, **2001**, 34, 3215-3223	5.5	30
146	Synthesis and Characterization of Degradable Poly(silyl ester)s. *Macromolecules*, **1998**, 31, 15-21	5.5	30
145	Multi-responsive Hydrogels Derived from the Self-assembly of Tethered Allyl-functionalized Racemic Oligopeptides. *Journal of Materials Chemistry B*, **2014**, 2, 8123-8130	7.3	29
144	Location of Terminal Groups of Dendrimers in the Solid State by Rotational-Echo Double-Resonance NMR. *Macromolecules*, **2000**, 33, 6214-6216	5.5	29

143	REDOR Determination of the Composition of Shell Cross-Linked Amphiphilic Core-Shell Nanoparticles and the Partitioning of Sequestered Fluorinated Guests. *Macromolecules*, **2001**, 34, 547-551	5.5	29
142	Syntheses of triblock bottlebrush polymers through sequential ROMPs: Expanding the functionalities of molecular brushes. *Journal of Polymer Science Part A*, **2017**, 55, 2966-2970	2.5	28
141	Well-defined cationic shell crosslinked nanoparticles for efficient delivery of DNA or peptide nucleic acids. *Proceedings of the American Thoracic Society*, **2009**, 6, 450-7		28
140	Synthesis, characterization, and aqueous self-assembly of amphiphilic poly(ethylene oxide)-functionalized hyperbranched fluoropolymers. *Journal of Polymer Science Part A*, **2010**, 48, 3487-3496	2.5	28
139	Poly(silyl ester)s: A New Family of Hydrolytically-Degradable Polymers with Attunable Stabilities. *Macromolecules*, **1995**, 28, 8887-8889	5.5	28
138	PEGylation of cationic, shell-crosslinked-knedel-like nanoparticles modulates inflammation and enhances cellular uptake in the lung. *Nanomedicine: Nanotechnology, Biology, and Medicine*, **2013**, 9, 912-22	6	27
137	Self-Reporting Degradable Fluorescent Grafted Copolymer Micelles Derived from Biorenewable Resources. *ACS Macro Letters*, **2015**, 4, 645-650	6.6	27
136	Responsive organogels formed by supramolecular self assembly of PEG--allyl-functionalized racemic polypeptides into β-sheet-driven polymeric ribbons. *Soft Matter*, **2013**, 9, 5951-5958	3.6	27
135	Investigation of intricate, amphiphilic crosslinked hyperbranched fluoropolymers as anti-icing coatings for extreme environments. *Journal of Polymer Science Part A*, **2016**, 54, 238-244	2.5	27
134	Poly(carbonate-amide)s Derived from Bio-Based Resources: Poly(ferulic acid--tyrosine). *Macromolecules*, **2014**, 47, 2974-2983	5.5	26
133	Functional Polycarbonate of a d-Glucal-Derived Bicyclic Carbonate via Organocatalytic Ring-Opening Polymerization. *ACS Macro Letters*, **2017**, 6, 748-753	6.6	26
132	Multi-responsive polypeptide hydrogels derived from N-carboxyanhydride terpolymerizations for delivery of nonsteroidal anti-inflammatory drugs. *Organic and Biomolecular Chemistry*, **2017**, 15, 5145-5154	3.9	25
131	Facile Synthesis of a Phosphorylcholine-Based Zwitterionic Amphiphilic Copolymer for Anti-Biofouling Coatings. *ACS Macro Letters*, **2015**, 4, 505-510	6.6	25
130	Polyphosphoester nanoparticles as biodegradable platform for delivery of multiple drugs and siRNA. *Drug Design, Development and Therapy*, **2017**, 11, 483-496	4.4	25
129	Holistic assessment of covalently labeled core-shell polymeric nanoparticles with fluorescent contrast agents for theranostic applications. *Langmuir*, **2014**, 30, 631-41	4	25
128	Functionalizable Hydrophilic Polycarbonate, Poly(5-methyl-5-(2-hydroxypropyl)aminocarbonyl-1,3-dioxan-2-one), Designed as a Degradable Alternative for PHPMA and PEG. *Macromolecules*, **2015**, 48, 8797-8805	5.5	25
127	pH-Triggered reversible morphological inversion of orthogonally-addressable poly(3-acrylamidophenylboronic acid)-block-poly(acrylamidoethylamine) micelles and their shell crosslinked nanoparticles. *Polymer Chemistry*, **2012**, 3, 3146-3156	4.9	25
126	Photonic Shell-Crosslinked Nanoparticle Probes for Optical Imaging and Monitoring. *Advanced Materials*, **2009**, 21, 1344-1348	24	25

125	The Power of RAFT for Creating Polymers Having Imbedded Side-Chain Functionalities: Norbornenyl-Functionalized Polymers and their Transformations via ROMP and Thiol-ene Reactions. *Australian Journal of Chemistry*, **2009**, 62, 1507	1.2	25
124	Hierarchical Inorganic□Organic Nanocomposites Possessing Amphiphilic and Morphological Complexities: Influence of Nanofiller Dispersion on Mechanical Performance. *Advanced Functional Materials*, **2008**, 18, 2733-2744	15.6	25
123	Shell-crosslinked knedel-like nanoparticles induce lower immunotoxicity than their non-crosslinked analogs. *Journal of Materials Chemistry B*, **2013**, 1,	7.3	24
122	Synthesis and Solution-state Assembly or Bulk State Thiol-ene Crosslinking of Pyrrolidinone- and Alkene-functionalized Amphiphilic Block Fluorocopolymers: From Functional Nanoparticles to Anti-fouling Coatings. *Australian Journal of Chemistry*, **2010**, 63, 1159	1.2	24
121	Location of fluorotryptophan sequestered in an amphiphilic nanoparticle by rotational-echo double-resonance NMR. *Biophysical Journal*, **1998**, 75, 2574-6	2.9	24
120	Recyclable Hybrid Inorganic/Organic Magnetically Active Networks for the Sequestration of Crude Oil from Aqueous Environments. *Chemistry of Materials*, **2015**, 27, 3775-3782	9.6	23
119	Influence of nanostructure morphology on host capacity and kinetics of guest release. *Small*, **2011**, 7, 1998-2003	11	23
118	Synthesis, Characterization and Degradation of Poly(silyl ester)s. *Macromolecules*, **1998**, 31, 7606-7612	5.5	23
117	Rapidly-cured isosorbide-based cross-linked polycarbonate elastomers. *Polymer Chemistry*, **2016**, 7, 2639-2644	4.6	23
116	Four Different Regioisomeric Polycarbonates Derived from One Natural Product, d-Glucose. *Macromolecules*, **2016**, 49, 7857-7867	5.5	23
115	A fundamental investigation of cross-linking efficiencies within discrete nanostructures, using the cross-linker as a reporting molecule. *Soft Matter*, **2009**, 5, 3422	3.6	22
114	Synthesis and characterization of block copolymers containing poly(di(ethylene glycol) 2-ethylhexyl ether acrylate) by reversible addition□fragmentation chain transfer polymerization. *Journal of Polymer Science Part A*, **2007**, 45, 5420-5430	2.5	22
113	PNA-directed solution- and surface-assembly of shell crosslinked (SCK) nanoparticle conjugates. *Soft Matter*, **2005**, 1, 69-78	3.6	22
112	Location of Cholic Acid Sequestered by Core□Shell Nanoparticles Using REDOR NMR. *Macromolecules*, **2001**, 34, 544-546	5.5	22
111	Polyphosphoramidates That Undergo Acid-Triggered Backbone Degradation. *ACS Macro Letters*, **2017**, 6, 219-223	6.6	21
110	Amphiphilic cross-linked networks produced from the vulcanization of nanodomains within thin films of poly(N-vinylpyrrolidinone)-b-poly(isoprene). *Langmuir*, **2009**, 25, 9535-44	4	21
109	Cross-linked and functionalized polyester materials constructed using ketoxime ether linkages. *Soft Matter*, **2007**, 3, 1032-1040	3.6	21
108	Nanoscopic Confinement of Semi-Crystalline Polymers. *Current Organic Chemistry*, **2005**, 9, 1053-1066	1.7	21

107	Thiol-Ene Elastomers Derived from Biobased Phenolic Acids with Varying Functionality. *Macromolecules*, **2016**, 49, 7737-7748	5.5	21
106	Design and development of multifunctional polyphosphoester-based nanoparticles for ultrahigh paclitaxel dual loading. *Nanoscale*, **2017**, 9, 15773-15777	7.7	20
105	Development of Fully Degradable Phosphonium-Functionalized Amphiphilic Diblock Copolymers for Nucleic Acids Delivery. *Biomacromolecules*, **2018**, 19, 1212-1222	6.9	20
104	Synthesis, Characterization, and Cross-Linking Strategy of a Quercetin-Based Epoxidized Monomer as a Naturally-Derived Replacement for BPA in Epoxy Resins. *ChemSusChem*, **2016**, 9, 2135-42	8.3	20
103	Directing self-assembly of nanoscopic cylindrical diblock brush terpolymers into films with desired spatial orientations: expansion of chemical composition scope. *Macromolecular Rapid Communications*, **2014**, 35, 437-41	4.8	20
102	Construction of a versatile and functional nanoparticle platform derived from a helical diblock copolypeptide-based biomimetic polymer. *Polymer Chemistry*, **2014**, 5, 3977-3981	4.9	20
101	Aldehyde-functional polycarbonates as reactive platforms. *Polymer Chemistry*, **2014**, 5, 3555-3558	4.9	20
100	Polyphosphoester-based cationic nanoparticles serendipitously release integral biologically-active components to serve as novel degradable inducible nitric oxide synthase inhibitors. *Advanced Materials*, **2013**, 25, 5609-14	24	20
99	Polydimethylsiloxane- (PDMS-) Grafted Fluorocopolymers by a Grafting through Strategy Based on Atom Transfer Radical (Co)polymerization. *Macromolecules*, **2007**, 40, 7195-7207	5.5	20
98	A polarity-activation strategy for the high incorporation of 1-alkenes into functional copolymers via RAFT copolymerization. *Journal of Polymer Science Part A*, **2008**, 46, 3488-3498	2.5	20
97	With a grain of salt: what halite has to offer to discussions on the origin of life. *Astrobiology*, **2006**, 6, 625-43	3.7	20
96	Geminal poly(silyl ester)s: Highly labile degradable polymers **1999**, 37, 3606-3613		20
95	Paclitaxel-loaded SCK nanoparticles: an investigation of loading capacity and cell killing abilities in vitro. *Molecular Pharmaceutics*, **2012**, 9, 2248-55	5.6	19
94	Polycarbonates from the polyhydroxy natural product quinic acid. *Biomacromolecules*, **2011**, 12, 2512-7	6.9	19
93	Novel macromolecular architectures: Globular block copolymers containing dendritic components. *Macromolecular Symposia*, **1994**, 77, 11-20	0.8	19
92	Programmed hydrolysis of nanoassemblies by electrostatic interaction-mediated enzymatic-degradation. *Chemical Communications*, **2014**, 50, 968-70	5.8	18
91	Thiol-ene Click networks from amphiphilic fluoropolymers: full synthesis and characterization of a benchmark anti-biofouling surface. *Journal of Materials Chemistry*, **2012**, 22, 19462		18
90	Construction of thermoresponsive SCKs through tuning the crystalline melting point of the core domain. *Soft Matter*, **2008**, 4, 849-858	3.6	18

89	Toward Cross-Linked Degradable Polyester Materials:Investigations into the Compatibility and Use of Reductive Amination Chemistry for Cross-Linking. *Macromolecules*, **2007**, 40, 1480-1488	5.5	18
88	Well-Defined Carbon Nanoparticles Prepared from Water-Soluble Shell Cross-linked Micelles that Contain Polyacrylonitrile Cores. *Angewandte Chemie*, **2004**, 116, 2843-2847	3.6	18
87	Verzweigte Monomere als Quelle fein einen schnelleren Zugang zu Dendrimeren. *Angewandte Chemie*, **1994**, 106, 123-126	3.6	18
86	Experiments and Simulations of Complex Sugar-Based Coil-Brush Block Polymer Nanoassemblies in Aqueous Solution. *ACS Nano*, **2019**, 13, 5147-5162	16.7	17
85	The investigation of a transsilylation reaction for the preparation of silyl esters: reactivity correlated with 29Si NMR resonance frequencies. *Journal of Organometallic Chemistry*, **1997**, 542, 235-240	2.3	17
84	Formation of nanogel aggregates by an amphiphilic cholesteryl-poly(amidoamine) dendrimer in aqueous media. *Journal of Polymer Science Part A*, **2007**, 45, 2569-2575	2.5	17
83	Harnessing the Chemical Diversity of the Natural Product Magnolol for the Synthesis of Renewable, Degradable Neolignan Thermosets with Tunable Thermomechanical Characteristics and Antioxidant Activity. *Biomacromolecules*, **2019**, 20, 109-117	6.9	17
82	Toward the Optimization of Dinitrosyl Iron Complexes as Therapeutics for Smooth Muscle Cells. *Molecular Pharmaceutics*, **2019**, 16, 3178-3187	5.6	16
81	Regioisomeric Preference in Ring-Opening Polymerization of 3?,5?-Cyclic Phosphoesters of Functional Thymidine DNA Analogues. *ACS Macro Letters*, **2018**, 7, 153-158	6.6	16
80	Imaging mRNA expression levels in living cells with PNADNA binary FRET probes delivered by cationic shell-crosslinked nanoparticles. *Organic and Biomolecular Chemistry*, **2013**, 11, 3159-67	3.9	16
79	Aqueous-only, pH-induced nanoassembly of dual pKa-driven contraphilic block copolymers. *Chemical Communications*, **2008**, 5339-41	5.8	16
78	Investigating the pharmacokinetics and biological distribution of silver-loaded polyphosphoester-based nanoparticles using (111) Ag as a radiotracer. *Journal of Labelled Compounds and Radiopharmaceuticals*, **2015**, 58, 234-41	1.9	15
77	Acid-Triggered Polymer Backbone Degradation and Disassembly to Achieve Release of Camptothecin from Functional Polyphosphoramidate Nanoparticles. *ACS Macro Letters*, **2018**, 7, 783-788	6.6	15
76	Photo-cross-linked poly(thioether-co-carbonate) networks derived from the natural product quinic acid. *ACS Applied Materials & Interfaces*, **2014**, 6, 17370-5	9.5	15
75	A Structural Approach to Establishing a Platform Chemistry for the Tunable, Bulk Electron Beam Cross-Linking of Shape Memory Polymer Systems. *Macromolecules*, **2013**, 46, 8905-8916	5.5	15
74	Tunable dual-emitting shell-crosslinked nano-objects as single-component ratiometric pH-sensing materials. *Journal of Materials Chemistry*, **2011**, 21, 14193-14202		15
73	Kinetic investigation of the RAFT polymerization of p-acetoxystyrene. *Journal of Polymer Science Part A*, **2010**, 48, 2517-2524	2.5	15
72	Synthesis of Poly(silyl ester)s via AB Monomer Systems. *Macromolecules*, **2000**, 33, 734-742	5.5	15

71	Invoking Side-Chain Functionality for the Mediation of Regioselectivity during Ring-Opening Polymerization of Glucose Carbonates. *Journal of the American Chemical Society*, **2020**, 142, 16974-16981	16.4	15
70	Poly(ferulic acid--tyrosine): Effect of the Regiochemistry on the Photophysical and Physical Properties en Route to Biomedical Applications. *Macromolecules*, **2014**, 47, 7109-7117	5.5	14
69	Antisense peptide nucleic acid-functionalized cationic nanocomplex for in vivo mRNA detection. *Interface Focus*, **2013**, 3, 20120059	3.9	14
68	Novel polymers: molecular to nanoscale order in three dimensions. *Proceedings of the National Academy of Sciences of the United States of America*, **2000**, 97, 11147-8	11.5	14
67	Copper-64-Alloyed Gold Nanoparticles for Cancer Imaging: Improved Radiolabel Stability and Diagnostic Accuracy. *Angewandte Chemie*, **2014**, 126, 160-163	3.6	13
66	What lies ahead. *Nature*, **2011**, 469, 23-5	50.4	13
65	Minocycline and Silver Dual-Loaded Polyphosphoester-Based Nanoparticles for Treatment of Resistant Pseudomonas aeruginosa. *Molecular Pharmaceutics*, **2019**, 16, 1606-1619	5.6	13
64	Cyclodextrin-Derived Monolithic, Hierarchically Porous Polyimides Designed for Versatile Molecular Separation Applications. *Chemistry of Materials*, **2018**, 30, 6226-6230	9.6	13
63	Two Distinct, Reactive Polymers Derived from a Single Norbornenyl Methacryloyl Bifunctional Monomer by Selective ATRP or ROMP. *Macromolecules*, **2009**, 42, 5433-5436	5.5	12
62	The influence of solution-state conditions and stirring rate on the assembly of poly(acrylic acid)-containing amphiphilic triblock copolymers with multi-amines. *Journal of Polymer Science Part A*, **2010**, 48, 4465-4472	2.5	12
61	Design, synthesis, and characterization of linear fluorinated poly(benzyl ether)s: A comparison study with isomeric hyperbranched fluoropolymers. *Journal of Materials Chemistry*, **2005**, 15, 5128		12
60	Silyl ether-coupled poly(epsilon-caprolactone)s with stepwise hydrolytic degradation profiles. *Biomacromolecules*, **2001**, 2, 1206-13	6.9	12
59	Production of Ag/Polymer Asymmetric Nanoparticles via a Powerful Light-Driven Technique. *Journal of the American Chemical Society*, **2019**, 141, 19542-19545	16.4	12
58	Dynamic Anti-Icing Coatings: Complex, Amphiphilic Hyperbranched Fluoropolymer Poly(ethylene glycol) Cross-Linked Networks with an Integrated Liquid Crystalline Comonomer. *Chemistry of Materials*, **2016**, 28, 5471-5479	9.6	11
57	Reversible photo-patterning of soft conductive materials via spatially-defined supramolecular assembly. *Chemical Communications*, **2016**, 52, 8455-8	5.8	11
56	Advanced photoresist technologies by intricate molecular brush architectures: Diblock brush terpolymer-based positive-tone photoresist materials. *Journal of Polymer Science Part A*, **2015**, 53, 193-199	2.5	11
55	Imidazolium salts as small-molecule urinary bladder exfoliants in a murine model. *Antimicrobial Agents and Chemotherapy*, **2015**, 59, 5494-502	5.9	11
54	Imaging mRNA Expression in Live Cells via PNA DNA Strand Displacement-Activated Probes. *Journal of Nucleic Acids*, **2012**, 2012, 962652	2.3	11

53	Time-of-flight secondary ion mass spectrometry, fluorescence microscopy and scanning electron microscopy: combined tools for monitoring the process of patterning and layer-by-layer assembly of synthetic and biological materials. *Colloids and Surfaces B: Biointerfaces*, **2008**, 65, 85-91	6	11
52	Chain Packing in Linear PhenolPolycarbonate by13C{2H} REDOR. *Macromolecules*, **2002**, 35, 2608-2617	5.5	11
51	Polymerization of organized polymer assemblies. *Current Opinion in Colloid and Interface Science*, **1999**, 4, 122-129	7.6	11
50	Computational Reverse-Engineering Analysis for Scattering Experiments on Amphiphilic Block Polymer Solutions. *Journal of the American Chemical Society*, **2019**, 141, 14916-14930	16.4	10
49	Reassessment of nanomaterials immunotoxicity. *Nano Today*, **2018**, 20, 10-12	17.9	10
48	Examination of radio-opacity enhancing additives in shape memory polyurethane foams. *Journal of Applied Polymer Science*, **2015**, 132,	2.9	10
47	Porphyrin-crosslinked block copolymer assemblies as photophysically-active nanoscopic devices. *Journal of Materials Chemistry*, **2011**, 21, 8983		10
46	Composite soft-matter nanoscale objects: Nanocylinder-templated assembly of nanospheres. *Soft Matter*, **2009**, 5, 3585	3.6	10
45	Nanoscale Objects: Perspectives Regarding Methodologies for Their Assembly, Covalent Stabilization, and Utilization. *Topics in Current Chemistry*, **2005**, 287-305		10
44	Amphiphilic Cross-Linked Liquid Crystalline Fluoropolymer-Poly(ethylene glycol) Coatings for Application in Challenging Conditions: Comparative Study between Different Liquid Crystalline Comonomers and Polymer Architectures. *ACS Applied Materials & Interfaces*, **2016**, 8, 33386-33393	9.5	10
43	Degradable sugar-based magnetic hybrid nanoparticles for recovery of crude oil from aqueous environments. *Polymer Chemistry*, **2020**, 11, 4895-4903	4.9	9
42	Bio-based polycarbonates derived from the neolignan honokiol. *RSC Advances*, **2016**, 6, 81672-81679	3.7	9
41	Morphologic Design of Silver-Bearing Sugar-Based Polymer Nanoparticles for Uroepithelial Cell Binding and Antimicrobial Delivery. *Nano Letters*, **2021**, 21, 4990-4998	11.5	9
40	Functional, Degradable Zwitterionic Polyphosphoesters as Biocompatible Coating Materials for Metal Nanostructures. *Langmuir*, **2019**, 35, 1503-1512	4	9
39	A Vinyl Ether-Functional Polycarbonate as a Template for Multiple Postpolymerization Modifications. *Macromolecules*, **2018**, 51, 3233-3242	5.5	8
38	Synthetic polymer nanoparticles conjugated with FimH(A) from E. coli pili to emulate the bacterial mode of epithelial internalization. *Journal of the American Chemical Society*, **2012**, 134, 3938-41	16.4	8
37	Bottom-up/top-down, high-resolution, high-throughput lithography using vertically assembled block bottle brush polymers. *Journal of Micro/ Nanolithography, MEMS, and MOEMS*, **2013**, 12, 043006	0.7	8
36	Hierarchical Self-Assembly of Poly(d-glucose carbonate) Amphiphilic Block Copolymers in Mixed Solvents. *Macromolecules*, **2020**, 53, 8581-8591	5.5	8

35	Erythrocyte-Membrane-Camouflaged Nanocarriers with Tunable Paclitaxel Release Kinetics via Macromolecular Stereocomplexation **2020**, 2, 595-601		7
34	Synthesis of polycarbonates by a silicon-assisted alkoxy/carbonylimidazolide coupling reaction **1997**, 35, 1133-1137		7
33	Crystallization of Poly(ε-caprolactone) under Nanoparticle Confinement. *Helvetica Chimica Acta*, **2002**, 85, 3219-3224	2	7
32	A Tale of Drug-Carrier Optimization: Controlling Stimuli Sensitivity via Nanoparticle Hydrophobicity through Drug Loading. *Nano Letters*, **2020**, 20, 6563-6571	11.5	7
31	Sustainable synthesis of CO2-derived polycarbonates from D-xylose. *Polymer Chemistry*, **2021**, 12, 5271-5278	4.7	7
30	Co-assembly of sugar-based amphiphilic block polymers to achieve nanoparticles with tunable morphology, size, surface charge, and acid-responsive behavior. *Materials Chemistry Frontiers*, **2018**, 2, 2230-2238	7.8	7
29	Solid-State NMR Investigations of the Unusual Effects Resulting from the Nanoconfinement of Water within Amphiphilic Crosslinked Polymer Networks. *Advanced Functional Materials*, **2009**, 19, 3404-3410	15.6	6
28	Multiplexing techniques for measurement of the immunomodulatory effects of particulate materials: Precautions when testing micro- and nano-particles. *Methods*, **2019**, 158, 81-85	4.6	5
27	Magnetically-active Pickering emulsions stabilized by hybrid inorganic/organic networks. *Soft Matter*, **2016**, 12, 9342-9354	3.6	5
26	Chain Packing in Ethoxyphenyl Polycarbonate by13C{2H} REDOR. *Macromolecules*, **2002**, 35, 2618-2623	5.5	5
25	A novel in vitro metric predicts in vivo efficacy of inhaled silver-based antimicrobials in a murine Pseudomonas aeruginosa pneumonia model. *Scientific Reports*, **2018**, 8, 6376	4.9	4
24	Supramolecularly knitted tethered oligopeptide/single-walled carbon nanotube organogels. *Chemistry - A European Journal*, **2014**, 20, 8842-7	4.8	4
23	Efficient protection and transfection of small interfering RNA by cationic shell-crosslinked knedel-like nanoparticles. *Nucleic Acid Therapeutics*, **2013**, 23, 95-108	4.8	4
22	The convergent-growth approach to dendritic macromolecules. *Advances in Dendritic Macromolecules*, **1995**, 1-39		4
21	Effects of Glutathione and Histidine on NO Release from a Dimeric Dinitrosyl Iron Complex (DNIC). *Inorganic Chemistry*, **2020**, 59, 16998-17008	5.1	4
20	Theory-Guided Targeted Delivery of Nanoparticles in Advective Environmental Porous Media. *Environmental Science and Technology Letters*, **2019**, 6, 617-623	11	3
19	Dendrimers Clicked Together Divergently Volume 38, Number 13, June 28, 2005, pp 5436–5443.. *Macromolecules*, **2006**, 39, 900-900	5.5	3
18	Chain Dynamics in Linear and Hyperbranched Phenol Polycarbonates. *Macromolecules*, **2003**, 36, 2368-2373	5.5	3

17	Construction of nanostructures in aqueous solution from amphiphilic glucose-derived polycarbonates. *Journal of Polymer Science Part A*, **2019**, 57, 432-440	2.5	3
16	Nanodomain analysis with cluster-SIMS: application to the characterization of macromolecular brush architecture. *Surface and Interface Analysis*, **2015**, 47, 1051-1055	1.5	2
15	Shell Cross-Linked Knedels: Amphiphilic Core-Shell Nanospheres with Unique Potential for Controlled Release Applications. *ACS Symposium Series*, **1998**, 165-175	0.4	2
14	Morphologic design of sugar-based polymer nanoparticles for delivery of antidiabetic peptides. *Journal of Controlled Release*, **2021**, 334, 1-10	11.7	2
13	Recycling: A High-Performance Recycling Solution for Polystyrene Achieved by the Synthesis of Renewable Poly(thioether) Networks Derived from d-Limonene (Adv. Mater. 10/2014). *Advanced Materials*, **2014**, 26, 1551-1551	24	1
12	The preparation of t-butyl acrylate, methyl acrylate, and styrene block copolymers by atom transfer radical polymerization: Precursors to amphiphilic and hydrophilic block copolymers and conversion to complex nanostructured materials **2000**, 38, 4805		1
11	Complexities of Regioselective Ring-Opening vs Transcarbonylation-Driven Structural Metamorphosis during Organocatalytic Polymerizations of Five-Membered Cyclic Carbonate Glucose Monomers.. *Jacs Au*, **2022**, 2, 515-521		0
10	Multiple analyte profiling (MAP) index as a powerful diagnostic and therapeutic monitoring tool. *Methods*, **2021**, 190, 26-32	4.6	0
9	Preparation of Degradable Polymeric Nanoparticles with Various Sizes and Surface Charges from Polycarbonate Block Copolymers. *Macromolecular Research*, **2019**, 27, 1173-1178	1.9	
8	Core-Shell Nanoparticles for Biomedical Applications. *Frontiers in Nanobiomedical Research*, **2014**, 475-517		
7	Complex Functional Macromolecules **2011**, 1341-1385		
6	Comments on Living Polymerization: Rationale for Uniform Terminology by Darling et al. **2000**, 38, 1751-1752		
5	Investigation of segmental reorganization within amphiphilic block polymer nanoparticles derived from shell crosslinked micelle templates: Shell crosslinked knedel-like inversion. *Journal of Polymer Science*, **2020**, 58, 204-214	2.4	
4	Nanomaterials and immune system **2022**, 65-114		
3	Data analysis and interpretation **2022**, 145-168		
2	Methods for evaluation of the immunomodulatory effects of nanoparticles **2022**, 115-127		
1	Precautions during evaluation of immunotoxicity of particulate materials **2022**, 139-143		