Redouane Borsali

List of Publications by Year
in descending order

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241 papers	8,276 citations	38660 50 h-index	69108 77 g-index

246 all docs	246 docs citations	246 times ranked	9051 citing authors

#	Article	IF	Citations
1	Rodlike Cellulose Microcrystals: Structure, Properties, and Applications. Macromolecular Rapid Communications, 2004, 25, 771-787.	2.0	758
2	Oligosaccharide/Silicon-Containing Block Copolymers with 5 nm Features for Lithographic Applications. ACS Nano, 2012, 6, 3424-3433.	7.3	194
3	Shear-Induced Orientation Phenomena in Suspensions of Cellulose Microcrystals, Revealed by Small Angle X-ray Scattering. Langmuir, 1999, 15, 6123-6126.	1.6	154
4	Translational and Rotational Dynamics of Rodlike Cellulose Whiskers. Langmuir, 2003, 19, 24-29.	1.6	154
5	Phosphorylcholine-Based pH-Responsive Diblock Copolymer Micelles as Drug Delivery Vehicles:Â Light Scattering, Electron Microscopy, and Fluorescence Experiments. Biomacromolecules, 2006, 7, 817-828.	2.6	150
6	Elaboration of chitosan-coated nanoparticles loaded with curcumin for mucoadhesive applications. Journal of Colloid and Interface Science, 2012, 370, 58-66.	5.0	145
7	Influence of the ionic strength on the dimensions of sodium hyaluronate. Macromolecules, 1992, 25, 5613-5617.	2.2	144
8	Effect of Dense Grafting on the Backbone Conformation of Bottlebrush Polymers:Â Determination of the Persistence Length in Solution. Macromolecules, 2002, 35, 8878-8881.	2.2	133
9	Nanocontainers Formed by Self-Assembly of Poly(ethylene oxide)-b-poly(glycerol) Tj ETQq1 1 0.784314 rgBT /Overlock 10 Tf 50 422 T	2.2	115
10	Small-Angle Neutron Scattering and Dynamic Light Scattering from a Polyelectrolyte Solution:Â DNA. Macromolecules, 1998, 31, 1548-1555.	2.2	114
11	Synthesis and Stereocomplex Formation of Star-Shaped Stereoblock Polylactides Consisting of Poly(<scp>l</scp>-lactide) and Poly(<scp>d</scp>-lactide) Arms. Macromolecules, 2013, 46, 8509-8518.	2.2	103
12	pH Responsiveness of Dendrimer-like Poly(ethylene oxide)s. Journal of the American Chemical Society, 2006, 128, 11551-11562.	6.6	100
13	Static and Dynamic Light Scattering from Polyelectrolyte Microcrystal Celluloseâ€. Langmuir, 2002, 18, 992-996.	1.6	95
14	Highâ€Performance Nonvolatile Transistor Memories of Pentacence Using the Green Electrets of Sugarâ€based Block Copolymers and Their Supramolecules. Advanced Functional Materials, 2014, 24, 4240-4249.	7.8	95
15	Thermal Degradation of Natural Polymers. Magyar AprÃ³vad KÃ¶zlemÃ©nyek, 2002, 67, 295-303.	1.4	93
16	Sub-10 nm Nano-Organization in AB₂- and AB₃-Type Miktoarm Star Copolymers Consisting of Maltoheptaose and Polycaprolactone. Macromolecules, 2013, 46, 1461-1469.	2.2	90
17	Micellar Morphological Changes Promoted by Cyclization of PS-b-PI Copolymer:Â DLS and AFM Experiments. Macromolecules, 2003, 36, 4125-4133.	2.2	89
18	Micelles and Polymersomes Obtained by Self-Assembly of Dextran and Polystyrene Based Block Copolymers. Biomacromolecules, 2009, 10, 32-40.	2.6	89

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19	Thermoresponsive Vesicular Morphologies Obtained by Self-Assemblies of Hybrid Oligosaccharide-block-poly(N-isopropylacrylamide) Copolymer Systems. Langmuir, 2010, 26, 2325-2332.	1.6	88
20	Controlled Radical Polymerization ofN-Vinylpyrrolidone by Reversible Addition-Fragmentation Chain Transfer Process. Macromolecular Symposia, 2005, 229, 8-17.	0.4	86
21	Comparison between a polyacrylamide and a hydrophobically modified polyacrylamide flood in a sandstone core. Materials Science and Engineering C, 2009, 29, 505-509.	3.8	82
22	Mucoadhesive Films Containing Chitosanâ€Coated Nanoparticles: A New Strategy for Buccal Curcumin Release. Journal of Pharmaceutical Sciences, 2014, 103, 3764-3771.	1.6	81
23	Thermal properties and stability of cassava starch films cross-linked with tetraethylene glycol diacrylate. Polymer Degradation and Stability, 2006, 91, 726-732.	2.7	78
24	Block Copolymer Systems: From Single Chain to Self-Assembled Nanostructures. Langmuir, 2010, 26, 15734-15744.	1.6	78
25	Conception of Stretchable Resistive Memory Devices Based on Nanostructureâ€Controlled Carbohydrateâ€blockâ€Polyisoprene Block Copolymers. Advanced Functional Materials, 2017, 27, 1606161.	7.8	76
26	Ultrastructural aspects of phytoglycogen from cryo-transmission electron microscopy and quasi-elastic light scattering data. International Journal of Biological Macromolecules, 1999, 26, 145-150.	3.6	75
27	Polyurethane nanoparticles from a natural polyol via miniemulsion technique. Polymer, 2006, 47, 8080-8087.	1.8	74
28	Specific Interactions Improve the Loading Capacity of Block Copolymer Micelles in Aqueous Media. Langmuir, 2007, 23, 6947-6955.	1.6	73
29	Small Angle Neutron Scattering from Polyelectrolyte Solutions: From Disordered to Ordered Xanthan Chain Conformation. Macromolecules, 1995, 28, 3119-3124.	2.2	72
30	Synthesis of ATRP-induced dextran-b-polystyrene diblock copolymers and preliminary investigation of their self-assembly in water. Chemical Communications, 2007, , 3063.	2.2	72
31	A mechanically robust silver nanowireâ€“polydimethylsiloxane electrode based on facile transfer printing techniques for wearable displays. Nanoscale, 2019, 11, 1520-1530.	2.8	70
32	Mean-field theory of concentrated polyelectrolyte solutions: Statics and dynamics. Physical Review A, 1991, 43, 6857-6874.	1.0	67
33	Curcumin-Loaded Chitosan-Coated Nanoparticles as a New Approach for the Local Treatment of Oral Cavity Cancer. Journal of Nanoscience and Nanotechnology, 2015, 15, 781-791.	0.9	67
34	Control of the Morphology of Linear and Cyclic PS-b-PI Block Copolymer Micelles via PS Addition. Langmuir, 2005, 21, 1180-1186.	1.6	65
35	Towards an easy access to amphiphilic rod-coil miktoarm star copolymers. Chemical Communications, 2005, , 1993.	2.2	63
36	Oligosaccharide Carbohydrate Dielectrics toward Highâ€Performance Nonâ€volatile Transistor Memory Devices. Advanced Materials, 2015, 27, 6257-6264.	11.1	61

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37	Nanoparticles Made From Xyloglucan-Block-Polycaprolactone Copolymers: Safety Assessment for Drug Delivery. Toxicological Sciences, 2015, 147, 104-115.	1.4	61
38	RGB-Switchable Porous Electrospun Nanofiber Chemoprobe-Filter Prepared from Multifunctional Copolymers for Versatile Sensing of pH and Heavy Metals. ACS Applied Materials & Interfaces, 2017, 9, 16381-16396.	4.0	61
39	Theory of dynamic scattering from copolymer solutions using the random phase approximation. Macromolecules, 1987, 20, 2620-2624.	2.2	60
40	Cell death and ultrastructural alterations in Leishmania amazonensis caused by new compound 4-Nitrobenzaldehyde thiosemicarbazone derived from S-limonene. BMC Microbiology, 2014, 14, 236.	1.3	58
41	Glycopolymers as Antiadhesives of E. coli Strains Inducing Inflammatory Bowel Diseases. Biomacromolecules, 2015, 16, 1827-1836.	2.6	58
42	Nano-Organization of Amylose-b-Polystyrene Block Copolymer Films Doped with Bipyridine. Langmuir, 2011, 27, 4098-4103.	1.6	56
43	Chitosan-decorated polystyrene-b-poly(acrylic acid) polymersomes as novel carriers for topical delivery of finasteride. European Journal of Pharmaceutical Sciences, 2014, 52, 165-172.	1.9	56
44	Quasi-elastic light scattering from ternary mixtures of polystyrene/poly(dimethylsiloxane)/solvents. Macromolecules, 1989, 22, 816-821.	2.2	55
45	10 nm Scale Cylinderâ€“Cubic Phase Transition Induced by Caramelization in Sugar-Based Block Copolymers. ACS Macro Letters, 2012, 1, 1379-1382.	2.3	55
46	A slow-release system of bacterial cellulose gel and nanoparticles for hydrophobic active ingredients. International Journal of Pharmaceutics, 2015, 486, 217-225.	2.6	55
47	Control of 10 nm scale cylinder orientation in self-organized sugar-based block copolymer thin films. Nanoscale, 2013, 5, 2637.	2.8	53
48	Microphase Separation of Linear and Cyclic Block Copolymers Poly(styrene-b-isoprene):â€‰ SAXS Experiments. Macromolecules, 2004, 37, 1843-1848.	2.2	52
49	Dynamic light scattering and atomic force microscopy techniques for size determination of polyurethane nanoparticles. Materials Science and Engineering C, 2009, 29, 638-640.	3.8	52
50	Synthesis, Self-Assembly, and Thermal Caramelization of Maltoheptaose-Conjugated Polycaprolactones Leading to Spherical, Cylindrical, and Lamellar Morphologies. Macromolecules, 2013, 46, 8932-8940.	2.2	52
51	From â€œSunflower-likeâ€•Assemblies toward Giant Wormlike Micelles. Langmuir, 2003, 19, 6-9.	1.6	51
52	Sub-10 nm Scale Nanostructures in Self-Organized Linear Di- and Triblock Copolymers and Miktoarm Star Copolymers Consisting of Maltoheptaose and Polystyrene. Macromolecules, 2015, 48, 1509-1517.	2.2	51
53	Small-Angle Neutron Scattering from Diblock Copolymer Poly(styrene-d8)-b-poly(Î³-benzyll-glutamate) Solutions:Â Rodâ^'Coil to Coilâ^'Coil Transition. Macromolecules, 2003, 36, 1253-1256.	2.2	47
54	Sweet Block Copolymer Nanoparticles: Preparation and Self-Assembly of Fully Oligosaccharide-Based Amphiphile. Biomacromolecules, 2012, 13, 1129-1135.	2.6	45

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55	Atomic force microscopy study of comb-like vs. arborescent graft copolymers in thin films. Polymer, 2004, 45, 1833-1843.	1.8	44
56	An intrinsically stretchable and ultrasensitive nanofiber-based resistive pressure sensor for wearable electronics. Journal of Materials Chemistry C, 2020, 8, 5361-5369.	2.7	44
57	Scattering Properties of Rodâ^'Coil and Once-Broken Rod Block Copolymers. Macromolecules, 2001, 34, 4229-4234.	2.2	42
58	Property evaluations of dry-cast reconstituted bacterial cellulose/tamarind xyloglucan biocomposites. Carbohydrate Polymers, 2013, 93, 144-153.	5.1	42
59	Thermoresponsive Self-Assemblies of Cyclic and Branched Oligosaccharide-block-poly(N-isopropylacrylamide) Diblock Copolymers into Nanoparticles. Biomacromolecules, 2012, 13, 1458-1465.	2.6	41
60	Effect of Cyclization of Polystyrene/Polyisoprene Block Copolymers on Their Micellar Morphology. Macromolecular Rapid Communications, 2002, 23, 978-982.	2.0	39
61	On the Mucoadhesive Properties of Chitosan-Coated Polycaprolactone Nanoparticles Loaded with Curcumin Using Quartz Crystal Microbalance with Dissipation Monitoring. Journal of Biomedical Nanotechnology, 2014, 10, 787-794.	0.5	39
62	Self-Assembly of Carbohydrate-block-Poly(3-hexylthiophene) Diblock Copolymers into Sub-10 nm Scale Lamellar Structures. Macromolecules, 2017, 50, 3365-3376.	2.2	39
63	Light Scattering and Small-Angle Neutron Scattering from Polyelectrolyte Solutions: The Succinoglycan. Macromolecules, 1995, 28, 1085-1088.	2.2	38
64	Diffusion of polymers in semidilute ternary solutions - investigation by dynamic light scattering. Macromolecules, 1987, 20, 1112-1115.	2.2	37
65	Static and Dynamic Light Scattering of Polyelectrolyte/Surfactant Solutions: the Na-Hyaluronate/(C10TAB) System. Macromolecular Chemistry and Physics, 2004, 205, 907-917.	1.1	37
66	Poly(styrene)comb-b-Poly(ethylene oxide)comb Copolymers:Â Synthesis and AFM Investigation of Intra- and Supramolecular Organization as Thin Deposits. Macromolecules, 2007, 40, 9503-9509.	2.2	37
67	Screening of interactions in homopolymer blends and in diblock copolymer systems. Macromolecules, 1990, 23, 3172-3178.	2.2	36
68	Synthesis of (Poly(chloroethyl vinyl ether)-g-polystyrene)comb-b-(poly(chloropyran ethoxy vinyl) Tj ETQq0 0 0 rgBT /Overlock 10 Tf 50 22 Solutions. Macromolecules, 2007, 40, 5559-5565.	2.2	36
69	Self-Assembly of Amphiphilic Glycoconjugates into Lectin-Adhesive Nanoparticles. Langmuir, 2012, 28, 1418-1426.	1.6	36
70	Study of gelatinization process and viscoelastic properties of cassava starch: Effect of sodium hydroxide and ethylene glycol diacrylate as cross-linking agent. Carbohydrate Polymers, 2006, 66, 396-407.	5.1	35
71	Dynamic light scattering and viscosimetry of aqueous solutions of pectin, sodium alginate and their mixtures: effects of added salt, concentration, counterions, temperature and chelating agent. Journal of the Brazilian Chemical Society, 2009, 20, 1705-1714.	0.6	35
72	Comb Copolymers with Polystyrene and Polyisoprene Branches: Effect of Block Topology on Film Morphology. Macromolecules, 2009, 42, 3942-3950.	2.2	35

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73	Sulfated Glycosaminoglycan-Based Block Copolymer: Preparation of Biocompatible Chondroitin Sulfate-b-poly(lactic acid) Micelles. Biomacromolecules, 2014, 15, 2691-2700.	2.6	35
74	Dynamics of copolymer solutions determined by using neutron spin-echo. Macromolecules, 1989, 22, 4119-4121.	2.2	34
75	Dynamic light scattering from polystyrene-poly(methylmethacrylate) diblock copolymer in toluene. Physical Review A, 1991, 43, 5732-5735.	1.0	34
76	Glyco-Nanoparticles Made from Self-Assembly of Maltoheptaose-block-Poly(methyl) Tj ETQq0 0 0 rgBT /Overlock 10 Tf 50 622 Td	2.6	34
77	Fluorescence properties of curcumin-loaded nanoparticles for cell tracking. International Journal of Nanomedicine, 2018, Volume 13, 5823-5836.	3.3	34
78	Carbohydrateâ€Based Block Copolymer Thin Films: Ultrafast Nanoâ€Organization with 7 nm Resolution Using Microwave Energy. Advanced Materials, 2017, 29, 1701645.	11.1	33
79	Synthesis and characterization of carboxymethylcellulose grafted with thermoresponsive side chains of high LCST: The high temperature and high salinity self-assembly dependence. Carbohydrate Polymers, 2018, 184, 108-117.	5.1	33
80	Influence of the Macromolecular Architecture on the Self-Assembly of Amphiphilic Copolymers Based on Poly(N,N-dimethylamino-2-ethyl methacrylate) and Poly(Ìµ-caprolactone). Langmuir, 2008, 24, 8272-8279.	1.6	32
81	Control over Molecular Architectures of Carbohydrate-Based Block Copolymers for Stretchable Electrical Memory Devices. Macromolecules, 2018, 51, 4966-4975.	2.2	32
82	Vesicles made of PS-PI cyclic diblock copolymers: In situ freeze-drying cryo-TEM and dynamic light scattering experiments. Faraday Discussions, 2005, 128, 163.	1.6	31
83	Enhancement of Plant and Bacterial Lectin Binding Affinities by Threeâ€Dimensional Organized Cluster Glycosides Constructed on Helical Poly(phenylacetylene) Backbones. ChemBioChem, 2010, 11, 2399-2408.	1.3	31
84	Xyloglucanâ€blockâ€Poly(Ìµâ€Caprolactone) Copolymer Nanoparticles Coated with Chitosan as Biocompatible Mucoadhesive Drug Delivery System. Macromolecular Bioscience, 2014, 14, 709-719.	2.1	31
85	Viscosity of weakly charged polyelectrolyte solutions: the mode-mode coupling approach. Macromolecules, 1992, 25, 5313-5317.	2.2	30
86	On some original properties of dilute polyelectrolyte solutions at low salt content: sodium hyaluronate example. Polymer, 1993, 34, 3710-3715.	1.8	30
87	Block copolymer micelles as nanoreactors for singleâ€site polymerization catalysts. Journal of Polymer Science Part A, 2009, 47, 197-209.	2.5	30
88	Self-Assembly of Maltoheptaose-block-Polystyrene into Micellar Nanoparticles and Encapsulation of Gold Nanoparticles. Langmuir, 2013, 29, 15224-15230.	1.6	30
89	Improving performance of Cs-based perovskite light-emitting diodes by dual additives consisting of polar polymer and n-type small molecule. Organic Electronics, 2019, 67, 294-301.	1.4	30
90	The role of surfactant in the miniemulsion polymerization of biodegradable polyurethane nanoparticles. Materials Science and Engineering C, 2008, 28, 526-531.	3.8	29

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91	Self-Assembly of Maltoheptaose-block-polycaprolactone Copolymers: Carbohydrate-Decorated Nanoparticles with Tunable Morphology and Size in Aqueous Media. Macromolecules, 2016, 49, 4178-4194.	2.2	29
92	Redox-Active Glyconanoparticles as Electron Shuttles for Mediated Electron Transfer with Bilirubin Oxidase in Solution. Journal of the American Chemical Society, 2017, 139, 16076-16079.	6.6	29
93	Microphase separation of carbohydrate-based star-block copolymers with sub-10 nm periodicity. Polymer Chemistry, 2019, 10, 1119-1129.	1.9	29
94	.chi.F Interaction parameter and the single-chain diffusion coefficients of dextran/poly(vinylpyrrolidone)/water: dynamic light scattering experiments. Macromolecules, 1993, 26, 2592-2596.	2.2	28
95	Synthesis of Comblike Poly(styrene-b-isoprene) Block Copolymers and Their Properties in Good and Selective Solvents. Macromolecules, 2006, 39, 7107-7114.	2.2	28
96	Dynamics of Cellulose Whiskers in Agarose Gels. 1. Polarized Dynamic Light Scattering. Macromolecules, 2001, 34, 5275-5279.	2.2	27
97	Diblock Copolymer Micellar Nanoparticles Decorated with Annexin-A5 Proteins. Journal of the American Chemical Society, 2006, 128, 9010-9011.	6.6	27
98	Phaseâ€Separation Kinetics and Mechanism in a Methylcellulose/Salt Aqueous Solution Studied by Timeâ€Resolved Smallâ€Angle Light Scattering (SALS). Macromolecular Chemistry and Physics, 2011, 212, 1063-1071.	1.1	27
99	Poly(ethylene glycol) Hydroxystearate-Based Nanosized Emulsions: Effect of Surfactant Concentration on Their Formation and Ability to Solubilize Quercetin. Journal of Biomedical Nanotechnology, 2012, 8, 202-210.	0.5	26
100	Quasi-elastic light scattering from ternary mixtures of poly(methyl) Tj ETQq0 0 0 rgBT /Overlock 10 Tf 50 382 Td (methacrylate)/poly(dir	2.2	25
101	Polymacromonomers:â€‰ Dynamics of Dilute and Nondilute Solutions. Macromolecules, 2005, 38, 2400-2409.	2.2	25
102	Micellar Aggregation in Blends of Linear and Cyclic Poly(styrene-b-isoprene) Diblock Copolymers. Langmuir, 2005, 21, 9085-9090.	1.6	25
103	Photodimerization as an alternative to photocrosslinking of nanoparticles: proof of concept with amphiphilic linear polyoxazoline bearing coumarin unit. Polymer Chemistry, 2015, 6, 6029-6039.	1.9	25
104	Chain-End Functionalization with a Saccharide for 10 nm Microphase Separation: â€œClassicalâ€• PS-b-PMMA versus PS-b-PMMA-Saccharide. Macromolecules, 2018, 51, 8870-8877.	2.2	25
105	Dynamics of copolymer and homopolymer blends in strong solutions and bulk: The Edwards Hamiltonian approach. Journal of Chemical Physics, 1990, 93, 3610-3613.	1.2	24
106	Synthesis and self-assembly of amphiphilic polymers based on polyoxazoline and vegetable oil derivatives. Polymer Chemistry, 2013, 4, 1445-1458.	1.9	24
107	Carbohydrates as Hard Segments for Sustainable Elastomers: Carbohydrates Direct the Self-Assembly and Mechanical Properties of Fully Bio-Based Block Copolymers. Macromolecules, 2020, 53, 5408-5417.	2.2	24
108	Further evidence of liquid-like correlations in polyelectrolyte solutions. Journal De Physique II, 1994, 4, 1001-1019.	0.9	24

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109	SAXS from Polyelectrolyte Solutions under Shear:â€‰ Xanthan and Naâ^'Hyaluronate Examples. Macromolecules, 2000, 33, 9418-9422.	2.2	23
110	Self-assembled carbohydrate-based micelles for lectin targeting. Soft Matter, 2011, 7, 3453.	1.2	23
111	Simple fabrication of cellulose nanofibers via electrospinning of dissolving pulp and tunicate. Cellulose, 2017, 24, 3281-3288.	2.4	23
112	Highly Ordered Cylinder Morphologies with 10 nm Scale Periodicity in Biomass-Based Block Copolymers. Macromolecules, 2018, 51, 428-437.	2.2	23
113	Improving the Performance and Stability of Perovskite Light-Emitting Diodes by a Polymeric Nanothick Interlayer-Assisted Grain Control Process. ACS Omega, 2020, 5, 8972-8981.	1.6	23
114	Dynamics of a single copolymer chain. Journal of Polymer Science, Part B: Polymer Physics, 1987, 25, 1839-1846.	2.4	22
115	Aqueous Self-Assembly of Polystyrene Chains End-Functionalized with Î²-Cyclodextrin. Biomacromolecules, 2009, 10, 449-453.	2.6	22
116	Fluorescent Vesicles Consisting of Galactoseâ€•based Amphiphilic Copolymers with a Ï€â€Conjugated Sequence Selfâ€•assembled in Water. Macromolecular Rapid Communications, 2011, 32, 912-916.	2.0	22
117	Quasi-elastic light scattering from ternary mixtures of polystyrene/poly(methyl) Tj ETQq1 1 0.784314 rgBT /Overlock 10 Tf 50 422 Td	1.8	21
118	Scattering properties of multicomponent polymer solutions: polyelectrolytes, homopolymer mixtures and diblock copolymer. Macromolecular Chemistry and Physics, 1996, 197, 3947-3994.	1.1	21
119	Redox-Active Carbohydrate-Coated Nanoparticles: Self-Assembly of a Cyclodextrinâ€“Polystyrene Glycopolymer with Tetrazineâ€“Naphthalimide. Langmuir, 2016, 32, 11939-11945.	1.6	21
120	Novel Magnet and Thermoresponsive Chemosensory Electrospinning Fluorescent Nanofibers and Their Sensing Capability for Metal Ions. Polymers, 2017, 9, 136.	2.0	21
121	Solubilized Enzymatic Fuel Cell (SEFC) for Quasi-Continuous Operation Exploiting Carbohydrate Block Copolymer Glyconanoparticle Mediators. ACS Energy Letters, 2019, 4, 142-148.	8.8	21
122	SAXS from Four-Arm Polyelectrolyte Stars in Semi-Dilute Solutions. Macromolecular Chemistry and Physics, 2003, 204, 89-97.	1.1	20
123	Preparation and enzymatic hydrolysis of nanoparticles made from single xyloglucan polysaccharide chain. Carbohydrate Polymers, 2013, 94, 934-939.	5.1	20
124	4-Nitrobenzaldehyde thiosemicarbazone: a new compound derived from S-(-)-limonene that induces mitochondrial alterations in epimastigotes and trypomastigotes of Trypanosoma cruzi. Parasitology, 2015, 142, 978-988.	0.7	20
125	Dynamic light scattering from poly(dimethylsiloxane) (PDMS)/PMMA/solvent: effect of optical properties. Macromolecules, 1992, 25, 4378-4381.	2.2	19
126	Amphiphilic derivatives of carboxymethylcellulose: Evidence for intraâ€•and intermolecular hydrophobic associations in aqueous solutions. Polymer Engineering and Science, 2008, 48, 2011-2026.	1.5	19

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127	Rapid access to discrete and monodisperse block co-oligomers from sugar and terpenoid toward ultrasmall periodic nanostructures. Communications Chemistry, 2020, 3, .	2.0	19
128	Lewis adduct approach for self-assembled block copolymer perovskite quantum dots composite toward optoelectronic application: Challenges and prospects. Chemical Engineering Journal, 2022, 431, 133701.	6.6	19
129	Morphology of Poly(ethylene oxide)-block-Polycaprolatone Block Copolymer Micelles Controlled via the Preparation Method. Macromolecular Symposia, 2006, 245-246, 147-153.	0.4	18
130	Aggregation of a Versatile Triblock Copolymer into pH-Responsive Cross-Linkable Nanostructures in Both Organic and Aqueous Media. Langmuir, 2009, 25, 13361-13367.	1.6	18
131	Micellar transformations of poly(styrene-b-isoprene) block copolymers in selective solvents. Soft Matter, 2009, 5, 1081.	1.2	18
132	Maltopentaose-Conjugated CTA for RAFT Polymerization Generating Nanostructured Bioresource-Block Copolymer. Biomacromolecules, 2014, 15, 4509-4519.	2.6	18
133	Oil removal from crude oil-in-saline water emulsions using chitosan as biosorbent. Separation Science and Technology, 2020, 55, 835-847.	1.3	18
134	Use of Natural Monomer in the Synthesis of Nano- and Microparticles of Polyurethane by Suspension-Polyaddition Technique. Macromolecular Symposia, 2005, 229, 234-245.	0.4	17
135	Synthesis of Amphiphilic Polymers Based on Fatty Acids and Glycerolâ€Ðerived Monomers â€“ A Study of Their Selfâ€Assembly in Water. Macromolecular Chemistry and Physics, 2014, 215, 131-139.	1.1	17
136	Carbohydrate-based block copolymer systems: directed self-assembly for nanolithography applications. Soft Matter, 2017, 13, 7406-7411.	1.2	16
137	Tunable amphiphilic graft copolymers bearing fatty chains and polyoxazoline: synthesis and self-assembly behavior in solution. Polymer Chemistry, 2017, 8, 4246-4263.	1.9	16
138	Nanostructure- and Orientation-Controlled Resistive Memory Behaviors of Carbohydrate-block-Polystyrene with Different Molecular Weights via Solvent Annealing. ACS Applied Materials & Interfaces, 2020, 12, 23217-23224.	4.0	16
139	Biodegradable Nanoparticles Loaded with Levodopa and Curcumin for Treatment of Parkinsonâ€™s Disease. Molecules, 2022, 27, 2811.	1.7	16
140	Dynamic light scattering study of the two-domain structure ofHumicola insolensendoglucanase V. FEBS Letters, 1995, 376, 49-52.	1.3	15
141	Rheological Behavior and Scattering Studies of Acrylamide-Based Copolymer Solutions. Macromolecular Symposia, 2005, 229, 217-227.	0.4	15
142	Dynamics of Cellulose Whiskers Spatially Trapped in Agarose Hydrogels. Macromolecules, 2006, 39, 3622-3627.	2.2	15
143	Amphiphilic copolymers based on polyoxazoline and grape seed vegetable oil derivatives: self-assemblies and dynamic light scattering. Journal of Nanoparticle Research, 2013, 15, 1.	0.8	15
144	Xyloglucan-based diblock co-oligomer: Synthesis, self-assembly and steric stabilization of proteins. Carbohydrate Polymers, 2013, 98, 1272-1280.	5.1	15

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145	Oligosaccharide-based block copolymers: Metal-free thiolâ€“maleimide click conjugation and self-assembly into nanoparticles. Carbohydrate Polymers, 2015, 124, 109-116.	5.1	15
146	Preparation of Polymeric Micelles of Poly(Ethylene Oxide-b-Lactic Acid) and their Encapsulation With Lavender Oil. Materials Research, 2016, 19, 1356-1365.	0.6	15
147	Diffusion in semi-dilute polymer solutions. A complementary experiment. Journal De Physique II, 1991, 1, 381-396.	0.9	15
148	Dynamic Light Scattering Evidence for a Ligand-Induced Motion between the Two Domains of Glucoamylase G1 ofAspergillus niger with Heterobivalent Substrate Analogues. Angewandte Chemie - International Edition, 1999, 38, 974-977.	7.2	14
149	Scattering and Viscosimetric Behaviors of Four- and Six-Arm Star Polyelectrolyte Solutions. Macromolecules, 2005, 38, 7105-7120.	2.2	14
150	Synthesis, micellization and lectin binding of new glycosurfactants. Carbohydrate Research, 2014, 397, 31-36.	1.1	14
151	Quasielastic light scattering from poly(dimethylsiloxane)/poly(methyl methacrylate)/chloroform under the optical .THETA. condition. Macromolecules, 1993, 26, 2433-2438.	2.2	13
152	Dynamic Scattering from Cyclic Diblock-Copolymer Chains in Solution. Europhysics Letters, 1993, 23, 263-269.	0.7	13
153	Determination of Splay and Twist Relaxation Modes in Nematic Liquid Crystals from Dynamic Light Scattering Experiments. Journal of Physical Chemistry B, 1998, 102, 6337-6341.	1.2	13
154	Dynamic light scattering studies of cholesteric and polymer-stabilized cholesteric liquid crystals. Physical Review E, 1998, 58, R2717-R2720.	0.8	13
155	On the physics of block copolymers. Polymer International, 2006, 55, 1161-1168.	1.6	13
156	Polyelectrolyte Behavior of Diblock Copolymer Micelles Having Phosphonic Diacid Groups at the Corona. Macromolecules, 2008, 41, 2195-2202.	2.2	13
157	Janus combs with polystyrene and poly(methyl vinyl ether) branches: Design, characterization and properties. Reactive and Functional Polymers, 2009, 69, 402-408.	2.0	13
158	Synthesis of fatty phosphonic acid based polymethacrylamide by RAFT polymerization and self-assembly in solution. Polymer Chemistry, 2014, 5, 2756-2767.	1.9	13
159	Redox tunable delivery systems: sweet block copolymer micelles via thiolâ€“(bromo)maleimide conjugation. Chemical Communications, 2016, 52, 12202-12205.	2.2	13
160	UV-responsive amphiphilic graft copolymers based on coumarin and polyoxazoline. Soft Matter, 2017, 13, 4507-4519.	1.2	13
161	Spin-echo neutron scattering from copolymers in intermediate solvents. Macromolecules, 1991, 24, 3185-3188.	2.2	12
162	Influence of the Shear Rate on the Small-Angle Neutron Scattering Pattern of Polyelectrolyte Solutions:Â The Xanthan Example. Macromolecules, 1996, 29, 473-474.	2.2	12

#	Article	IF	Citations
163	Dynamic Light Scattering and Small-Angle Neutron Scattering Studies of Ternary Rod/Coil/Solvent Systems. Macromolecules, 2001, 34, 2208-2219.	2.2	12
164	Polymer Micelles as Supports for the Production of Millimetric Polyethylene Beads. Macromolecules, 2008, 41, 7321-7329.	2.2	12
165	Self-Assembly of Oligosaccharide-b-PMMA Block Copolymer Systems: Glyco-Nanoparticles and Their Degradation under UV Exposure. Langmuir, 2016, 32, 4538-4545.	1.6	12
166	Thermally deposited silk fibroin as the gate dielectric layer in organic thin-film transistors based on conjugated polymer. Reactive and Functional Polymers, 2018, 131, 368-377.	2.0	12
167	Single-Chain Diffusion Coefficient of F-Dextran in Poly(vinylpyrrolidone)/Water: Fluorescence Recovery after Photobleaching Experiments. Macromolecules, 1994, 27, 2141-2144.	2.2	11
168	Polycaprolactone-b-Poly(ethylene oxide) Biocompatible Micelles as Drug Delivery Nanocarriers: Dynamic Light Scattering and Fluorescence Experiments. Macromolecular Symposia, 2005, 229, 107-117.	0.4	11
169	Characterization of Polymeric Particles with Electron Microscopy, Dynamic Light Scattering, and Atomic Force Microscopy. Particulate Science and Technology, 2010, 28, 472-484.	1.1	11
170	Solution properties of a hydrophobically associating polyacrylamide and its polyelectrolyte derivatives determined by light scattering, small angle x-ray scattering and viscometry. Journal of the Brazilian Chemical Society, 2011, 22, 489-500.	0.6	11
171	Synthesis of star poly(N-isopropylacrylamide) by Î²-cyclodextrin core initiator via ATRP approach in water. Reactive and Functional Polymers, 2011, 71, 1160-1165.	2.0	11
172	Synthesis and Characterization of Solvent-Invertible Amphiphilic Hollow Particles. Langmuir, 2013, 29, 7583-7590.	1.6	11
173	Drug carrier systems made from self-assembled glyco-nanoparticles of maltoheptaose-b-polyisoprene enhanced the distribution and activity of curcumin against cancer cells. Journal of Molecular Liquids, 2020, 309, 113022.	2.3	11
174	Elastic scattering and relaxation modes of cyclic diblock copolymer chains in solution: Rouse model. Physica A: Statistical Mechanics and Its Applications, 1993, 201, 129-137.	1.2	10
175	ATRP of Silylated Glycerol Monomethacrylate in Organic Medium for Convenient Synthesis of Amphiphilic Copolymers. Macromolecular Rapid Communications, 2008, 29, 573-579.	2.0	10
176	Physicochemical and morphological characterizations of glyceryl tristearate/castor oil nanocarriers prepared by the solvent diffusion method. Journal of the Brazilian Chemical Society, 2012, 23, 1972-1981.	0.6	10
177	Block copolymer technology applied to nanoelectronics. Physica Status Solidi C: Current Topics in Solid State Physics, 2013, 10, 1195-1206.	0.8	10
178	A versatile nanoarray electrode produced from block copolymer thin films for specific detection of proteins. Polymer, 2017, 123, 128-136.	1.8	10
179	Robust Sub-10 nm Pattern of Standing Sugar Cylinders via Rapid â€œMicrowave Cookingâ€• Macromolecules, 2019, 52, 8751-8758.	2.2	10
180	Static scattering from cyclic copolymers in solution. Journal De Physique II, 1993, 3, 1041-1047.	0.9	10

#	Article	IF	Citations
181	Dynamic light scattering from ternary mixtures of two homopolymers in solution. Journal of Non-Crystalline Solids, 1991, 131-133, 816-822.	1.5	9
182	Structure-property relationships of smectic liquid crystalline polyacrylates as revealed by SAXS. Journal of the Brazilian Chemical Society, 2006, 17, 333-341.	0.6	9
183	Application of living ionic polymerizations to the design of AB-type comb-like copolymers of various topologies and organizations. Macromolecular Research, 2007, 15, 173-177.	1.0	9
184	PS-b-PAA nanovesicles coated by modified PEIs bearing hydrophobic and hydrophilic groups. Journal of Molecular Liquids, 2015, 210, 29-36.	2.3	9
185	Highâ€Resolution Patterned Biobased Thin Films via Selfâ€Assembled Carbohydrate Block Copolymers and Nanocellulose. Advanced Materials Interfaces, 2020, 7, 1901737.	1.9	9
186	Self-assembly of carbohydrate-based block copolymer systems: glyconanoparticles and highly nanostructured thin films. Polymer Journal, 2022, 54, 455-464.	1.3	9
187	InfluÃªncia da adiÃ§Ã£o de plastificante do processo de reticulaÃ§Ã£o na morfologia, absorÃ§Ã£o de aguÃ¡ e propriedades mecÃ¢nicas de filmes de alginato de sÃ³dio. Quimica Nova, 2007, 30, .	0.3	8
188	Sub-20 nm Microphase-Separated Structures in Hybrid Block Copolymers Consisting of Polycaprolactone and Maltoheptaose. Journal of Photopolymer Science and Technology = [Fotoporima Konwakai Shi], 2015, 28, 635-642.	0.1	8
189	Generating nanoparticles containing a new 4-nitrobenzaldehyde thiosemicarbazone compound with antileishmanial activity. Materials Science and Engineering C, 2016, 69, 1159-1166.	3.8	8
190	Hemicellulosic Polysaccharides Mimics: Synthesis of Tailored Bottlebrush-Like Xyloglucan Oligosaccharide Glycopolymers as Binders of Nanocrystalline Cellulose. Biomacromolecules, 2017, 18, 3410-3417.	2.6	8
191	Self-assembly of copper-free maltoheptaose-block-polystyrene nanostructured thin films in real and reciprocal space. Carbohydrate Polymers, 2019, 212, 222-228.	5.1	8
192	Competing Molecular Packing of Blocks in a Lamella-Forming Carbohydrate-block-poly(3-hexylthiophene) Copolymer. Macromolecules, 2020, 53, 9054-9064.	2.2	8
193	Sweet Pluronic poly(propylene oxide)-b-oligosaccharide block copolymer systems: Toward sub-4Ânm thin-film nanopattern resolution. European Polymer Journal, 2020, 134, 109831.	2.6	8
194	Screened hydrodynamic interactions in ternary polymer solutions. Journal De Physique II, 1993, 3, 625-630.	0.9	8
195	Formation of Annexin-A5 Protein/Block Copolymer Micelle Complexes: QCM-D and PAGE Experiments. Langmuir, 2008, 24, 12189-12195.	1.6	7
196	Hybrid Block Copolymers Incorporating Oligosasaccharides and D Synthetic Blocks Grown by Controlled Radical Polymerization. ACS Symposium Series, 2009, , 231-240.	0.5	7
197	Self-assembly of maltoheptaose-b-PMMA block copolymer systems: 10 nm Resolution in thin film and bulk states. Carbohydrate Polymers, 2017, 170, 15-22.	5.1	7
198	Poly(styrene)-block-Maltoheptaose Films for Sub-10 nm Pattern Transfer: Implications for Transistor Fabrication. ACS Applied Nano Materials, 2021, 4, 5141-5151.	2.4	7

#	Article	IF	Citations
199	Dynamic scattering from mixtures of homopolymers and copolymers in solution. Macromolecules, 1988, 21, 520-521.	2.2	6
200	Evaluation of DNA damage and cytotoxicity of polyurethane-based nano- and microparticles as promising biomaterials for drug delivery systems. Journal of Nanoparticle Research, 2010, 12, 1655-1665.	0.8	6
201	Nanostructured Films Made from Zwitterionic Phosphorylcholine Diblock Copolymer Systems. Macromolecules, 2011, 44, 2240-2244.	2.2	6
202	Synthesis of maltopentaose-conjugated surface-active styrenic monomers and their micellar homopolymerization in water. Journal of Polymer Science Part A, 2015, 53, 1671-1679.	2.5	6
203	Silk fibroin nanofibers containing chondroitin sulfate and silver sulfadiazine for wound healing treatment. Journal of Drug Delivery Science and Technology, 2022, 70, 103221.	1.4	6
204	Small angle X-ray scattering study of chiral side chain liquid crystalline polymers in 5CB and 8CB solvents. Liquid Crystals, 2004, 31, 655-661.	0.9	5
205	Towards an easy access to Annexin-A5 protein binding block copolymer micelles. Materials Science and Engineering C, 2008, 28, 479-488.	3.8	5
206	Disordered Phase and Self-Organization of Block Copolymer Systems. , 2008, , 133-189.		5
207	Self-assembly of phosphorous containing oligomers: morphological features and pH-sensitiveness in suspension. Soft Matter, 2014, 10, 7545-7557.	1.2	5
208	Functionalizable Glyconanoparticles for a Versatile Redox Platform. Nanomaterials, 2021, 11, 1162.	1.9	5
209	Harnessing of Spatially Confined Perovskite Nanocrystals Using Polysaccharide-based Block Copolymer Systems. ACS Applied Materials & Interfaces, 2022, 14, 30279-30289.	4.0	5
210	Viscosity of weakly charged polyelectrolyte solutions: The screening of hydrodynamic interactions. Macromolecular Theory and Simulations, 1994, 3, 73-77.	0.6	4
211	Thermoâ€Responsive Copolymers Based on Poly(Nâ€isopropylacrylamide) and Poly[2â€(methacryloyloxy)ethyl phosphorylcholine]: Light Scattering and Microscopy Experiments. Macromolecular Chemistry and Physics, 2009, 210, 1726-1733.	1.1	4
212	Carbohydrate-attached fullerene derivative for selective localization in ordered carbohydrate-block-poly(3-hexylthiophene) nanodomains. Carbohydrate Polymers, 2021, 255, 117528.	5.1	4
213	Reliability of organic light-emitting diodes in low-temperature environment*. Chinese Physics B, 2020, 29, 128503.	0.7	4
214	Design and Characterization of Maltoheptaose-b-Polystyrene Nanoparticles, as a Potential New Nanocarrier for Oral Delivery of Tamoxifen. Molecules, 2021, 26, 6507.	1.7	4
215	Trialkoxyheptazine-Based Glyconanoparticles for Fluorescence in Aqueous Solutions and on Surfaces via Controlled Binding in Space. ACS Macro Letters, 2022, 11, 135-139.	2.3	4
216	Organic Î²â€cyclodextrin Nanoparticle: An Efficient Building Block Between Functionalized Poly(pyrrole) Electrodes and Enzymes. Small, 2022, 18, e2105880.	5.2	4

#	Article	IF	Citations
217	Hydrodynamic screening of ring copolymer solutions. Journal of Polymer Science, Part B: Polymer Physics, 1994, 32, 981-984.	2.4	3
218	Static and dynamic scattering from cyclic diblock copolymer chains in solution. Macromolecular Symposia, 1994, 79, 153-166.	0.4	3
219	Time division multiplexing based method for compressing ECG signals: application for normal and abnormal cases. Journal of Medical Engineering and Technology, 2007, 31, 324-331.	0.8	3
220	Morphological Changes Induced by Addition of Polystyrene to Dextranâ€Polystyrene Block Copolymer Solutions. Macromolecular Symposia, 2009, 281, 113-118.	0.4	3
221	Nanostructure of polystyrene-b-poly(2-hydroxyethyl methacrylate) and derivatives with phosphonic diacid groups. Journal of the Brazilian Chemical Society, 2012, 23, 747-752.	0.6	3
222	Novel hybrid block copolymer nanocarrier systems to load lipophilic drugs prepared by microphase inversion method. Journal of Polymer Research, 2017, 24, 1.	1.2	3
223	Unidirectional Perpendicularly Aligned Lamella-Structured Oligosaccharide (A) ABA Triblock Elastomer (B) Thin Films Utilizing Triazolium⁺/TFSI^{â€“} Ionic Nanochannels. ACS Macro Letters, 2022, 11, 140-148.	2.3	3
224	Dynamic scattering properties of branched polymers in the high-wave vector region. Journal of Polymer Science, Part B: Polymer Physics, 1994, 32, 1745-1748.	2.4	2
225	Scattering properties of branched polymers in the high wave vector region and good solvent conditions. Journal of Polymer Science, Part B: Polymer Physics, 1995, 33, 1281-1288.	2.4	2
226	Scattering properties of weakly charged polyelectrolytes. Zeitschrift Fur Elektrotechnik Und Elektrochemie, 1996, 100, 836-840.	0.9	2
227	Transition from star-like to crew-cut micelles induced by UV radiation. Journal of Colloid and Interface Science, 2014, 416, 54-58.	5.0	2
228	Fabrication of Ultrafine, Highly Ordered Nanostructures Using Carbohydrate-Inorganic Hybrid Block Copolymers. Nanomaterials, 2022, 12, 1653.	1.9	2
229	Cyclic polymers swollen in a good solvent dynamic scattering properties. Journal of Polymer Science, Part B: Polymer Physics, 1994, 32, 985-991.	2.4	1
230	Microstructures Based on Thermotropic Liquid-Crystalline Polymers in the Low Molar Mass Nematogenic 5CB. Macromolecular Symposia, 2005, 229, 93-98.	0.4	1
231	Memory: Highâ€Performance Nonvolatile Transistor Memories of Pentacence Using the Green Electrets of Sugarâ€based Block Copolymers and Their Supramolecules (Adv. Funct. Mater. 27/2014). Advanced Functional Materials, 2014, 24, 4198-4198.	7.8	1
232	Maltopentaose-conjugated Thermoresponsive Block Copolymer: Precision Synthesis through RAFT Polymerization of N,N-Diethylacrylamide. Chemistry Letters, 2015, 44, 428-430.	0.7	1
233	3. Electrospun biomaterials. , 2019, , 45-58.		1
234	Sequential infiltration synthesis and pattern transfer using 6 nm half-pitch carbohydrate-based fingerprint block copolymer. , 2021, , .		1

#	Article	IF	Citations
235	Sequential Infiltration Synthesis into Maltoheptaose and Poly(styrene): Implications for Sub-10 nm Pattern Transfer. Polymers, 2022, 14, 654.	2.0	1
236	Dynamic scattering of ternary polymer mixtures in solutions: The Ï‡_F interaction parameter and the single chain diffusion coefficient D_S. Macromolecular Symposia, 1994, 87, 133-147.	0.4	0
237	3D simulation of SAR induced by mobile phones in the human head. , 0, , .		0
238	Field-Effect Transistors: Oligosaccharide Carbohydrate Dielectrics toward High-Performance Non-volatile Transistor Memory Devices (Adv. Mater. 40/2015). Advanced Materials, 2015, 27, 6256-6256.	11.1	0
239	Structure and Dynamics of Block Copolymers and Polymer Blends. , 2002, , 263-309.		0
240	Polyelectrolyte and Non-Polyelectrolyte Polyacrylamide Copolymer Solutions: the Role of Salt on the Intra- and Intermolecular Interactions. Journal of the Brazilian Chemical Society, 2013, , .	0.6	0
241	(Invited) Redox Active Metallic and Glyco-Based Nanoparticles for Enzymatic Bioelectrocatalysis. ECS Meeting Abstracts, 2019, , .	0.0	0