

Bruno Grassl

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The third column is the impact factor (IF) of the journal, and the fourth column is the number of citations of the article.

103 papers	2,719 citations	27 h-index	48 g-index
106 ext. papers	3,483 ext. citations	5.1 avg, IF	5.47 L-index

#	Paper	IF	Citations
103	Current opinion: What is a nanoplastic?. <i>Environmental Pollution</i> , 2018 , 235, 1030-1034	9.3	502
102	Hydrophobically associating polyacrylamides and their partially hydrolyzed derivatives prepared by post-modification. 2. Properties of non-hydrolyzed polymers in pure water and brine. <i>Polymer</i> , 2005 , 46, 9283-9295	3.9	136
101	Hydrophobically associating polyacrylamides and their partially hydrolyzed derivatives prepared by post-modification. 1. Synthesis and characterization. <i>Polymer</i> , 2002 , 43, 2055-2064	3.9	130
100	Nanoplastics are neither microplastics nor engineered nanoparticles. <i>Nature Nanotechnology</i> , 2021 , 16, 501-507	28.7	89
99	Nanoplastic occurrence in a soil amended with plastic debris. <i>Chemosphere</i> , 2021 , 262, 127784	8.4	76
98	Asymmetrical flow field flow fractionation methods to characterize submicron particles: application to carbon-based aggregates and nanoplastics. <i>Analytical and Bioanalytical Chemistry</i> , 2017 , 409, 6761-6769	4.4	66
97	Hydrophobically modified associating polyacrylamide (HAPAM) synthesized by micellar copolymerization at high monomer concentration. <i>European Polymer Journal</i> , 2007 , 43, 824-834	5.2	66
96	Nanoplastic from mechanically degraded primary and secondary microplastics for environmental assessments. <i>NanoImpact</i> , 2020 , 17, 100206	5.6	65
95	Synthesis and pH- and salinity-controlled self-assembly of novel amphiphilic block-gradient copolymers of styrene and acrylic acid. <i>Soft Matter</i> , 2012 , 8, 7649	3.6	64
94	Are nanoplastics able to bind significant amount of metals? The lead example. <i>Environmental Pollution</i> , 2019 , 249, 940-948	9.3	62
93	pH-triggered reversible sol/gel transition in aqueous solutions of amphiphilic gradient copolymers. <i>Soft Matter</i> , 2011 , 7, 10824	3.6	61
92	Hydrogel nanocomposites as pressure-sensitive adhesives for skin-contact applications. <i>Soft Matter</i> , 2011 , 7, 2025	3.6	59
91	Aggregation number and critical micellar concentration of surfactant determined by time-dependent static light scattering (TDSLS) and conductivity. <i>Colloids and Surfaces A: Physicochemical and Engineering Aspects</i> , 2005 , 252, 105-111	5.1	57
90	Effects of NaCl on steady rheological behaviour in aqueous solutions of hydrophobically modified polyacrylamide and its partially hydrolyzed analogues prepared by post-modification. <i>Polymer International</i> , 2002 , 51, 939-947	3.3	54
89	Nitroxide-mediated radical polymerization of acrylamide in water solution. <i>European Polymer Journal</i> , 2008 , 44, 50-58	5.2	48
88	The effect of the ionic strength on the rheological behavior of hydrophobically modified polyacrylamide aqueous solutions mixed with sodium dodecyl sulfate (SDS) or cetyltrimethylammonium p-toluenesulfonate (CTAT). <i>Colloids and Surfaces A: Physicochemical and Engineering Aspects</i> , 2008 , 322, 211-218	5.1	44
87	Rapid and quantitative determination of critical micelle concentration by automatic continuous mixing and static light scattering. <i>Analytica Chimica Acta</i> , 2009 , 636, 236-41	6.6	42

86	Microwave-assisted nitroxide-mediated radical polymerization of acrylamide in aqueous solution. <i>Journal of Polymer Science Part A</i> , 2009 , 47, 6919-6931	2.5	42
85	Flow of Hydrophobically Modified Water-Soluble-Polymer Solutions in Porous Media: New Experimental Insights in the Diluted Regime. <i>SPE Journal</i> , 2011 , 16, 43-54	3.1	36
84	A Novel Strategy for the Detection and Quantification of Nanoplastics by Single Particle Inductively Coupled Plasma Mass Spectrometry (ICP-MS). <i>Analytical Chemistry</i> , 2020 , 92, 11664-11672	7.8	36
83	Nano-litter from cigarette butts: Environmental implications and urgent consideration. <i>Chemosphere</i> , 2018 , 194, 125-130	8.4	36
82	Saponins: a renewable and biodegradable surfactant from its microwave-assisted extraction to the synthesis of monodisperse lattices. <i>Biomacromolecules</i> , 2014 , 15, 856-62	6.9	34
81	Microwave-assisted nitroxide-mediated polymerization for water-soluble homopolymers and block copolymers synthesis in homogeneous aqueous solution. <i>Journal of Polymer Science Part A</i> , 2010 , 48, 5775-5782	2.5	32
80	Study of sodium dodecyl sulfate/poly(propylene oxide) methacrylate mixed micelles for the synthesis of thermo-associative polymers by micellar polymerization. <i>Polymer International</i> , 2002 , 51, 958-965	3.3	29
79	Nanoplastics on the coast exposed to the North Atlantic Gyre: Evidence and traceability. <i>NanoImpact</i> , 2020 , 20, 100262	5.6	29
78	Suction of hydrosoluble polymers into nanopores. <i>Soft Matter</i> , 2011 , 7, 96-103	3.6	28
77	Synthesis and rheological properties of hydrophobically modified polyacrylamides with lateral chains of poly(propylene oxide) oligomers. <i>Journal of Colloid and Interface Science</i> , 2009 , 333, 152-63	9.3	27
76	Associating behaviour of polyacrylamide modified with a new hydrophobic zwitterionic monomer. <i>Polymer International</i> , 2001 , 50, 1162-1169	3.3	27
75	Segmented Poly(tetramethylene oxide) Zwitterionomers and Their Homologous Ioneners. 2. Phase Separation through DSC and Solid State ¹ H-NMR Spectroscopy. <i>Macromolecules</i> , 1997 , 30, 236-245	5.5	26
74	Study of sodium dodecyl sulfate-poly(propylene oxide) methacrylate mixed micelles. <i>Langmuir</i> , 2004 , 20, 5759-69	4	25
73	Review of recent advances in polyethylenimine crosslinked polymer gels used for conformance control applications. <i>Polymer Bulletin</i> , 2019 , 76, 6001-6029	2.4	24
72	Multielement molecular size fractionation in crude oil and oil residue by size exclusion microchromatography with high resolution inductively coupled plasma mass spectrometric detection (HR ICP MS). <i>Journal of Analytical Atomic Spectrometry</i> , 2010 , 25, 1974	3.7	24
71	Soap- and metal-free polystyrene latex particles as a nanoplastic model. <i>Environmental Science: Nano</i> , 2019 , 6, 2253-2258	7.1	22
70	UV-mediated thiol-ene click reactions for the synthesis of drug-loadable and degradable gels based on copoly(2-oxazoline)s. <i>European Polymer Journal</i> , 2017 , 88, 701-712	5.2	20
69	Kinetic aspects, rheological properties and mechano-electrical effects of hydrogels composed of polyacrylamide and polystyrene nanoparticles. <i>Soft Matter</i> , 2007 , 3, 437-447	3.6	20

68	Poly(ethylene oxide)- and poly (acrylamide)-based water-soluble associative polymers: synthesis, characterisation, properties in solution. <i>Polymer International</i> , 2006 , 55, 1169-1176	3.3	20
67	Online Polymerization Monitoring in a Continuous Reactor. <i>Macromolecular Chemistry and Physics</i> , 2002 , 203, 586-597	2.6	20
66	Segmented Poly(tetramethylene oxide) Zwitterionomers and Their Homologous Ioneners. 1. Synthesis, Molecular Characterization, and Thermal Stability. <i>Macromolecules</i> , 1995 , 28, 7035-7045	5.5	20
65	Chemicals sorbed to environmental microplastics are toxic to early life stages of aquatic organisms. <i>Ecotoxicology and Environmental Safety</i> , 2021 , 208, 111665	7	20
64	Micellar copolymerization of associative polymers: study of the effect of acrylamide on sodium dodecyl sulfate-poly(propylene oxide) methacrylate mixed micelles. <i>Journal of Colloid and Interface Science</i> , 2005 , 289, 359-70	9.3	18
63	Online Monitoring of Chain Transfer in Free-Radical Polymerization. <i>Macromolecular Chemistry and Physics</i> , 2001 , 202, 2518-2524	2.6	18
62	A low-energy emulsification batch mixer for concentrated oil-in-water emulsions. <i>AIChE Journal</i> , 2011 , 57, 27-39	3.6	17
61	Microwave synthesis: An alternative approach to synthesize conducting end-capped polymers. <i>Polymer</i> , 2011 , 52, 33-39	3.9	17
60	Size characterization of the associations between carbon nanotubes and humic acids in aqueous media by asymmetrical flow field-flow fractionation combined with multi-angle light scattering. <i>Chemosphere</i> , 2012 , 86, 177-82	8.4	16
59	Multi-wall carbon nanotube aqueous dispersion monitoring by using A4F-UV-MALS. <i>Analytical and Bioanalytical Chemistry</i> , 2011 , 401, 3345-53	4.4	16
58	Determination of the macromolecular dimensions of hydrophobically modified polymers by micellar size exclusion chromatography coupled with multiangle light scattering. <i>Analytical Chemistry</i> , 2009 , 81, 8993-9001	7.8	16
57	Microwave-Assisted Syntheses in Recyclable Ionic Liquids: Photoresists Based on Renewable Resources. <i>ChemSusChem</i> , 2015 , 8, 3401-4	8.3	15
56	Segmented Poly(tetramethylene oxide) Zwitterionomers and Their Homologous Ioneners. 3. Structural Study through SAXS and SANS Measurements. <i>Macromolecules</i> , 1997 , 30, 2075-2084	5.5	15
55	New super-hairy semi-rigid polymers. <i>Macromolecular Chemistry and Physics</i> , 1998 , 199, 239-246	2.6	13
54	Trace element distribution in marine microplastics using laser ablation-ICP-MS. <i>Marine Pollution Bulletin</i> , 2020 , 160, 111716	6.7	13
53	A new analytical approach based on asymmetrical flow field-flow fractionation coupled to ultraviolet spectrometry and light scattering detection for SWCNT aqueous dispersion studies. <i>Analyst, The</i> , 2012 , 137, 917-23	5	12
52	Shear rheology of anionic and zwitterionic modified polyacrylamides. <i>Colloids and Surfaces A: Physicochemical and Engineering Aspects</i> , 2011 , 373, 66-73	5.1	12
51	Rheological Behavior of Bigrafted Hydrophobically Modified Polyelectrolyte. <i>Macromolecules</i> , 2009 , 42, 4914-4917	5.5	12

50	Nanoplastics Identification in Complex Environmental Matrices: Strategies for Polystyrene and Polypropylene. <i>Environmental Science & Technology</i> , 2021 , 55, 8753-8759	10.3	12
49	Monitoring Thermal and Mechanical Stability of Enhanced Oil Recovery (EOR) Acrylamide Based Polymers (PAM) Through Intrinsic Viscosity (IV) Determination Using a New Capillary Rheology Technique 2016 ,		11
48	Accurate determination of the length of carbon nanotubes using multi-angle light scattering. <i>Mikrochimica Acta</i> , 2011 , 175, 265-271	5.8	11
47	Advanced nanomedicine characterization by DLS and AF4-UV-MALS: Application to a HIV nanovaccine. <i>Journal of Pharmaceutical and Biomedical Analysis</i> , 2020 , 179, 113017	3.5	11
46	Improving the understanding of fullerene (nC) aggregate structures: Fractal dimension characterization by static light scattering coupled to asymmetrical flow field flow fractionation. <i>Journal of Colloid and Interface Science</i> , 2017 , 502, 193-200	9.3	10
45	Flow of Hydrophobically Modified Water-Soluble Polymers in Porous Media: Controlled Resistance Factors vs. Flow-Induced Gelation in the Semidilute Regime. <i>SPE Journal</i> , 2012 , 17, 1196-1206	3.1	10
44	Synthesis of Porous Emulsion-Templated Monoliths Using a Low-Energy Emulsification Batch Mixer. <i>Journal of Polymers and the Environment</i> , 2013 , 21, 683-691	4.5	10
43	Measurement Bias on Nanoparticle Size Characterization by Asymmetric Flow Field-Flow Fractionation Using Dynamic Light-Scattering Detection. <i>Chromatographia</i> , 2017 , 80, 287-294	2.1	9
42	Degradation of styrene butadiene rubber (SBR) in anaerobic conditions. <i>Polymer Degradation and Stability</i> , 2015 , 111, 159-168	4.7	9
41	Hydrophobically Modified Sulfonated Polyacrylamides for IOR: Correlations between Associative Behavior and Injectivity in the Diluted Regime. <i>Oil and Gas Science and Technology</i> , 2012 , 67, 903-919	1.9	9
40	Water-soluble poly(ethylene oxide)-block-poly(p-phenylene vinylene) copolymer: Synthesis and characterization. <i>Journal of Polymer Science Part A</i> , 2005 , 43, 4337-4350	2.5	9
39	Development of a new passive sampler based on diffusive milligel beads for copper analysis in water. <i>Analytica Chimica Acta</i> , 2015 , 890, 117-23	6.6	8
38	Deposition of environmentally relevant nanoplastic models in sand during transport experiments. <i>Chemosphere</i> , 2020 , 255, 126912	8.4	8
37	Asymmetrical flow field-flow fractionation analysis of water suspensions of polymer nanofibers synthesized via RAFT-mediated emulsion polymerization. <i>Analytica Chimica Acta</i> , 2014 , 819, 116-21	6.6	8
36	2D-Infrared Thermography Monitoring of Ultrasound-Assisted Polymerization of Water-Soluble Monomer in a Gel Process. <i>Macromolecules</i> , 2011 , 44, 4462-4469	5.5	8
35	Radical copolymerization of N-vinylcarbazole and p-bromostyrene: determination of monomer reactivity ratios by SEC-multidetector. <i>Polymer</i> , 2006 , 47, 2280-2288	3.9	8
34	Neutron scattering of hydrophobically modified poly(ethylene oxide) in aqueous solutions in the presence of latex particles. <i>Polymer</i> , 2002 , 43, 2677-2689	3.9	8
33	Stabilization of Fragmental Polystyrene Nanoplastic by Natural Organic Matter: Insight into Mechanisms. <i>ACS ES&T Water</i> , 2021 , 1, 1198-1208		8

32	Diffusive Milli-Gels (DMG) for in situ assessment of metal bioavailability: A comparison with labile metal measurement using Chelex columns and acute toxicity to <i>Ceriodaphnia dubia</i> for copper in freshwaters. <i>Chemosphere</i> , 2016 , 164, 7-13	8.4	7
31	Thermal gelation of partially hydrolysed polyacrylamide/polyethylenimine mixtures using design of experiments approach. <i>Materials Today Communications</i> , 2019 , 21, 100686	2.5	7
30	Living cationic ring-opening polymerization of 2-ethyl-2-oxazoline following sustainable concepts: microwave-assisted and droplet-based millifluidic processes in an ionic liquid medium. <i>Polymer Chemistry</i> , 2017 , 8, 5910-5917	4.9	7
29	Droplet-based millifluidic device under microwave irradiation: Temperature measurement and polymer particle synthesis. <i>Chemical Engineering Journal</i> , 2017 , 308, 1105-1111	14.7	7
28	A new thermally stable synthetic polymer for harsh conditions Of Middle East reservoirs 2018 ,		7
27	Environmental Fate Modeling of Nanoplastics in a Salinity Gradient Using a Lab-on-a-Chip: Where Does the Nanoscale Fraction of Plastic Debris Accumulate?. <i>Environmental Science & Technology</i> , 2021 , 55, 3001-3008	10.3	7
26	Nanoplastics: From model materials to colloidal fate. <i>Current Opinion in Colloid and Interface Science</i> , 2021 , 57, 101528	7.6	6
25	Biosorption of Heavy Metals from Water onto Phenolic Foams Based on Tannins and Lignin Alkaline Liquor. <i>International Journal of Environmental Research</i> , 2021 , 15, 369-381	2.9	6
24	Experimental design methodology as a tool to optimize the adsorption of new surfactant on the Algerian rock reservoir: cEOR applications. <i>European Physical Journal Plus</i> , 2019 , 134, 1	3.1	5
23	Rheological behaviour and adsorption phenomenon of a polymer-particle composite based on hydrolysed polyacrylamide/functionalized poly(styrene-acrylic acid) microspheres. <i>Soft Matter</i> , 2019 , 15, 5449-5454	3.6	5
22	Conductometric study of the complex system polyelectrolyte/surfactant in aqueous solution. <i>Research on Chemical Intermediates</i> , 2013 , 39, 2527-2536	2.8	5
21	A small-angle neutron scattering study of sodium dodecyl sulfate-poly(propylene oxide) methacrylate mixed micelles. <i>Journal of Colloid and Interface Science</i> , 2006 , 295, 417-26	9.3	5
20	Nanoplastic Labelling with Metal Probes: Analytical Strategies for Their Sensitive Detection and Quantification by ICP Mass Spectrometry. <i>Molecules</i> , 2021 , 26,	4.8	5
19	Influence parameters in controlled adiabatic copolymerization of acrylamide/4-vinylpyridine (AM/4VP) system in aqueous media. <i>Research on Chemical Intermediates</i> , 2015 , 41, 5839-5858	2.8	4
18	Dynamic rheology and relaxation time spectra of oil-based self-degradable gels. <i>Journal of Polymer Science, Part B: Polymer Physics</i> , 2016 , 54, 433-444	2.6	4
17	Synthesis and Viscosimetric Behavior of Poly(acrylamide--2-acrylamido-2-methylpropanesulfonate) Obtained by Conventional and Adiabatic Gel Process via RAFT/MADIX Polymerization. <i>ACS Omega</i> , 2019 , 4, 11119-11125	3.9	4
16	StructureProperty relationships of the thermal gelation of partially hydrolyzed polyacrylamide/polyethylenimine mixtures in a semidilute regime. <i>Polymer Bulletin</i> , 2020 , 77, 1465-1488 ^{2.4}		4
15	Microwave-Assisted Controlled Radical Polymerization. <i>Advances in Polymer Science</i> , 2014 , 131-147	1.3	3

14	Aqueous RAFT/MADIX Polymerization of Vinylphosphonic Acid under Microwave Irradiation. <i>ACS Symposium Series</i> , 2015 , 283-294	0.4	3
13	Rheological Behavior Study of Cationic Surfactant-Polyelectrolyte Complex (AD37/P4VP-DPC) in Aqueous Medium. <i>Macromolecular Symposia</i> , 2014 , 339, 134-140	0.8	3
12	Polyaniline Composites for Chemical Sensors and Release Devices. <i>Sensor Letters</i> , 2008 , 6, 548-557	0.9	3
11	Optimization of zero-shear viscosity for HPAM-Polystyrene microspheres formulations through experimental design approach. <i>Journal of Polymer Research</i> , 2021 , 28, 1	2.7	3
10	Rheology and adhesive properties versus structure of poly(acrylamide-co-hydroxyethyl methacrylate) hydrogels. <i>International Journal of Adhesion and Adhesives</i> , 2020 , 96, 102449	3.4	3
9	Fate of nanoplastics in the environment: Implication of the cigarette butts. <i>Environmental Pollution</i> , 2021 , 268, 115170	9.3	3
8	Experimental investigations of SDS adsorption on the Algerian rock reservoir: chemical enhanced oil recovery case. <i>Research on Chemical Intermediates</i> , 2018 , 44, 7665-7690	2.8	3
7	Tailoring the adhesion properties of polyacrylamide-based hydrogels. Application for skin contact. <i>Journal of Adhesion Science and Technology</i> , 2013 , 27, 1032-1047	2	2
6	Thermal properties of non-crystallizable oil-in-water highly concentrated emulsions. <i>Colloids and Surfaces A: Physicochemical and Engineering Aspects</i> , 2011 , 382, 266-273	5.1	2
5	Competitive functionalization and chain scission on segmented polymers: chain length and chain length distribution in the reacted polymers. <i>Polymer Degradation and Stability</i> , 2003 , 80, 357-361	4.7	1
4	Investigating the viscoelastic behavior of partially hydrolyzed polyacrylamide/polyethylenimine mixtures. <i>Journal of Polymer Research</i> , 2021 , 28, 1	2.7	0
3	Development of an alternative analytical methodology to monitor industrial degreasing baths by dynamic light scattering. <i>Journal of Cleaner Production</i> , 2016 , 113, 981-988	10.3	
2	Hydrophobic and electrostatic interactions in the mixture hydrolyzed polyacrylamide-N-dodecylpyridinium chloride (AD37DPC) in aqueous solution. <i>Research on Chemical Intermediates</i> , 2014 , 40, 269-279	2.8	
1	Hydrogels with Enhanced Adhesive and Rheological Properties for Transdermal Drug Delivery Systems Design 2020 , 1-12		