Bruno Grassl

List of Publications by Year in Descending Order

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	Nanoplastic Labelling with Metal Probes: Analytical Strategies for Their Sensitive Detection and Quantification by ICP Mass Spectrometry. *Molecules*, **2021**, 26,	4.8	5
102	Nanoplastics: From model materials to colloidal fate. *Current Opinion in Colloid and Interface Science* , **2021**, 57, 101528	7.6	6
101	Optimization of zero-shear viscosity for HPAM-Polystyrene microspheres formulations through experimental design approach. *Journal of Polymer Research*, **2021**, 28, 1	2.7	3
100	Nanoplastics are neither microplastics nor engineered nanoparticles. *Nature Nanotechnology*, **2021**, 16, 501-507	28.7	89
99	Nanoplastics Identification in Complex Environmental Matrices: Strategies for Polystyrene and Polypropylene. *Environmental Science & Technology*, **2021**, 55, 8753-8759	10.3	12
98	Investigating the viscoelastic behavior of partially hydrolyzed polyacrylamide/polyethylenimine mixtures. *Journal of Polymer Research*, **2021**, 28, 1	2.7	0
97	Nanoplastic occurrence in a soil amended with plastic debris. *Chemosphere*, **2021**, 262, 127784	8.4	76
96	Fate of nanoplastics in the environment: Implication of the cigarette butts. *Environmental Pollution*, **2021**, 268, 115170	9.3	3
95	Chemicals sorbed to environmental microplastics are toxic to early life stages of aquatic organisms. *Ecotoxicology and Environmental Safety*, **2021**, 208, 111665	7	20
94	Biosorption of Heavy Metals from Water onto Phenolic Foams Based on Tannins and Lignin Alkaline Liquor. *International Journal of Environmental Research*, **2021**, 15, 369-381	2.9	6
93	Environmental Fate Modeling of Nanoplastics in a Salinity Gradient Using a Lab-on-a-Chip: Where Does the Nanoscale Fraction of Plastic Debris Accumulate?. *Environmental Science & Technology*, **2021**, 55, 3001-3008	10.3	7
92	Stabilization of Fragmental Polystyrene Nanoplastic by Natural Organic Matter: Insight into Mechanisms. *ACS ES&T Water*, **2021**, 1, 1198-1208		8
91	Deposition of environmentally relevant nanoplastic models in sand during transport experiments. *Chemosphere*, **2020**, 255, 126912	8.4	8
90	Nanoplastic from mechanically degraded primary and secondary microplastics for environmental assessments. *NanoImpact*, **2020**, 17, 100206	5.6	65
89	Hydrogels with Enhenced Adhesive and Rheological Properties for Transdermal Drug Delivery Systems Design **2020**, 1-12		
88	Advanced nanomedicine characterization by DLS and AF4-UV-MALS: Application to a HIV nanovaccine. *Journal of Pharmaceutical and Biomedical Analysis*, **2020**, 179, 113017	3.5	11
87	Trace element distribution in marine microplastics using laser ablation-ICP-MS. *Marine Pollution Bulletin*, **2020**, 160, 111716	6.7	13

86	Nanoplastics on the coast exposed to the North Atlantic Gyre: Evidence and traceability. *NanoImpact*, **2020**, 20, 100262	5.6	29
85	A Novel Strategy for the Detection and Quantification of Nanoplastics by Single Particle Inductively Coupled Plasma Mass Spectrometry (ICP-MS). *Analytical Chemistry*, **2020**, 92, 11664-11672	7.8	36
84	Structure–property relationships of the thermal gelation of partially hydrolyzed polyacrylamide/polyethylenimine mixtures in a semidilute regime. *Polymer Bulletin*, **2020**, 77, 1465-1488	2.4	4
83	Rheology and adhesive properties versus structure of poly(acrylamide-co-hydroxyethyl methacrylate) hydrogels. *International Journal of Adhesion and Adhesives*, **2020**, 96, 102449	3.4	3
82	Experimental design methodology as a tool to optimize the adsorption of new surfactant on the Algerian rock reservoir: cEOR applications. *European Physical Journal Plus*, **2019**, 134, 1	3.1	5
81	Review of recent advances in polyethylenimine crosslinked polymer gels used for conformance control applications. *Polymer Bulletin*, **2019**, 76, 6001-6029	2.4	24
80	Rheological behaviour and adsorption phenomenon of a polymer-particle composite based on hydrolysed polyacrylamide/functionalized poly(styrene-acrylic acid) microspheres. *Soft Matter*, **2019**, 15, 5449-5454	3.6	5
79	Soap- and metal-free polystyrene latex particles as a nanoplastic model. *Environmental Science: Nano*, **2019**, 6, 2253-2258	7.1	22
78	Are nanoplastics able to bind significant amount of metals? The lead example. *Environmental Pollution*, **2019**, 249, 940-948	9.3	62
77	Synthesis and Viscosimetric Behavior of Poly(acrylamide--2-acrylamido-2-methylpropanesulfonate) Obtained by Conventional and Adiabatic Gel Process via RAFT/MADIX Polymerization. *ACS Omega*, **2019**, 4, 11119-11125	3.9	4
76	Thermal gelation of partially hydrolysed polyacrylamide/polyethylenimine mixtures using design of experiments approach. *Materials Today Communications*, **2019**, 21, 100686	2.5	7
75	Current opinion: What is a nanoplastic?. *Environmental Pollution*, **2018**, 235, 1030-1034	9.3	502
74	A new thermally stable synthetic polymer for harsh conditions Of Middle East reservoirs **2018**,		7
73	Nano-litter from cigarette butts: Environmental implications and urgent consideration. *Chemosphere*, **2018**, 194, 125-130	8.4	36
72	Experimental investigations of SDS adsorption on the Algerian rock reservoir: chemical enhanced oil recovery case. *Research on Chemical Intermediates*, **2018**, 44, 7665-7690	2.8	3
71	Measurement Bias on Nanoparticle Size Characterization by Asymmetric Flow Field-Flow Fractionation Using Dynamic Light-Scattering Detection. *Chromatographia*, **2017**, 80, 287-294	2.1	9
70	Improving the understanding of fullerene (nC) aggregate structures: Fractal dimension characterization by static light scattering coupled to asymmetrical flow field flow fractionation. *Journal of Colloid and Interface Science*, **2017**, 502, 193-200	9.3	10
69	Asymmetrical flow field flow fractionation methods to characterize submicron particles: application to carbon-based aggregates and nanoplastics. *Analytical and Bioanalytical Chemistry*, **2017**, 409, 6761-6769	4.4	66

68	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. *Polymer Chemistry*, **2017**, 8, 5910-5917	4.9	7
67	UV-mediated thiol-ene click reactions for the synthesis of drug-loadable and degradable gels based on copoly(2-oxazoline)s. *European Polymer Journal*, **2017**, 88, 701-712	5.2	20
66	Droplet-based millifluidic device under microwave irradiation: Temperature measurement and polymer particle synthesis. *Chemical Engineering Journal*, **2017**, 308, 1105-1111	14.7	7
65	Diffusive Milli-Gels (DMG) for in situ assessment of metal bioavailability: A comparison with labile metal measurement using Chelex columns and acute toxicity to Ceriodaphnia dubia for copper in freshwaters. *Chemosphere*, **2016**, 164, 7-13	8.4	7
64	Dynamic rheology and relaxation time spectra of oil-based self-degradable gels. *Journal of Polymer Science, Part B: Polymer Physics*, **2016**, 54, 433-444	2.6	4
63	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
62	Development of an alternative analytical methodology to monitor industrial degreasing baths by dynamic light scattering. *Journal of Cleaner Production*, **2016**, 113, 981-988	10.3	
61	Development of a new passive sampler based on diffusive milligel beads for copper analysis in water. *Analytica Chimica Acta*, **2015**, 890, 117-23	6.6	8
60	Degradation of styrene butadiene rubber (SBR) in anaerobic conditions. *Polymer Degradation and Stability*, **2015**, 111, 159-168	4.7	9
59	Influence parameters in controlled adiabatic copolymerization of acrylamide/4-vinylpyridine (AM/4VP) system in aqueous media. *Research on Chemical Intermediates*, **2015**, 41, 5839-5858	2.8	4
58	Microwave-Assisted Syntheses in Recyclable Ionic Liquids: Photoresists Based on Renewable Resources. *ChemSusChem*, **2015**, 8, 3401-4	8.3	15
57	Aqueous RAFT/MADIX Polymerization of Vinylphosphonic Acid under Microwave Irradiation. *ACS Symposium Series*, **2015**, 283-294	0.4	3
56	Saponins: a renewable and biodegradable surfactant from its microwave-assisted extraction to the synthesis of monodisperse lattices. *Biomacromolecules*, **2014**, 15, 856-62	6.9	34
55	Asymmetrical flow field-flow fractionation analysis of water suspensions of polymer nanofibers synthesized via RAFT-mediated emulsion polymerization. *Analytica Chimica Acta*, **2014**, 819, 116-21	6.6	8
54	Microwave-Assisted Controlled Radical Polymerization. *Advances in Polymer Science*, **2014**, 131-147	1.3	3
53	Rheological Behavior Study of Cationic Surfactant-Polyelectrolyte Complex (AD37/P4VP-DPC) in Aqueous Medium. *Macromolecular Symposia*, **2014**, 339, 134-140	0.8	3
52	Hydrophobic and electrostatic interactions in the mixture hydrolyzed polyacrylamide/N-dodecylpyridinium chloride (AD37/DPC) in aqueous solution. *Research on Chemical Intermediates*, **2014**, 40, 269-279	2.8	
51	Tailoring the adhesion properties of polyacrylamide-based hydrogels. Application for skin contact. *Journal of Adhesion Science and Technology*, **2013**, 27, 1032-1047	2	2

50	Synthesis of Porous Emulsion-Templated Monoliths Using a Low-Energy Emulsification Batch Mixer. *Journal of Polymers and the Environment*, **2013**, 21, 683-691	4.5	10
49	Conductometric study of the complex system polyelectrolyte/surfactant in aqueous solution. *Research on Chemical Intermediates*, **2013**, 39, 2527-2536	2.8	5
48	Flow of Hydrophobically Modified Water-Soluble Polymers in Porous Media: Controlled Resistance Factors vs. Flow-Induced Gelation in the Semidilute Regime. *SPE Journal*, **2012**, 17, 1196-1206	3.1	10
47	A new analytical approach based on asymmetrical flow field-flow fractionation coupled to ultraviolet spectrometry and light scattering detection for SWCNT aqueous dispersion studies. *Analyst, The*, **2012**, 137, 917-23	5	12
46	Hydrophobically Modified Sulfonated Polyacrylamides for IOR: Correlations between Associative Behavior and Injectivity in the Diluted Regime. *Oil and Gas Science and Technology*, **2012**, 67, 903-919	1.9	9
45	Synthesis and pH- and salinity-controlled self-assembly of novel amphiphilic block-gradient copolymers of styrene and acrylic acid. *Soft Matter*, **2012**, 8, 7649	3.6	64
44	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. *Chemosphere*, **2012**, 86, 177-82	8.4	16
43	2D-Infrared Thermography Monitoring of Ultrasound-Assisted Polymerization of Water-Soluble Monomer in a Gel Process. *Macromolecules*, **2011**, 44, 4462-4469	5.5	8
42	Hydrogel nanocomposites as pressure-sensitive adhesives for skin-contact applications. *Soft Matter* , **2011**, 7, 2025	3.6	59
41	Flow of Hydrophobically Modified Water-Soluble-Polymer Solutions in Porous Media: New Experimental Insights in the Diluted Regime. *SPE Journal*, **2011**, 16, 43-54	3.1	36
40	Accurate determination of the length of carbon nanotubes using multi-angle light scattering. *Mikrochimica Acta*, **2011**, 175, 265-271	5.8	11
39	Multi-wall carbon nanotube aqueous dispersion monitoring by using A4F-UV-MALS. *Analytical and Bioanalytical Chemistry*, **2011**, 401, 3345-53	4.4	16
38	A low-energy emulsification batch mixer for concentrated oil-in-water emulsions. *AICHE Journal*, **2011**, 57, 27-39	3.6	17
37	Suction of hydrosoluble polymers into nanopores. *Soft Matter*, **2011**, 7, 96-103	3.6	28
36	pH-triggered reversible sol–gel transition in aqueous solutions of amphiphilic gradient copolymers. *Soft Matter*, **2011**, 7, 10824	3.6	61
35	Shear rheology of anionic and zwitterionic modified polyacrylamides. *Colloids and Surfaces A: Physicochemical and Engineering Aspects*, **2011**, 373, 66-73	5.1	12
34	Thermal properties of non-crystallizable oil-in-water highly concentrated emulsions. *Colloids and Surfaces A: Physicochemical and Engineering Aspects*, **2011**, 382, 266-273	5.1	2
33	Microwave synthesis: An alternative approach to synthesize conducting end-capped polymers. *Polymer*, **2011**, 52, 33-39	3.9	17

32	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). *Journal of Analytical Atomic Spectrometry*, **2010**, 25, 1974	3.7	24
31	Microwave-assisted nitroxide-mediated polymerization for water-soluble homopolymers and block copolymers synthesis in homogeneous aqueous solution. *Journal of Polymer Science Part A*, **2010**, 48, 5775-5782	2.5	32
30	Rapid and quantitative determination of critical micelle concentration by automatic continuous mixing and static light scattering. *Analytica Chimica Acta*, **2009**, 636, 236-41	6.6	42
29	Microwave-assisted nitroxide-mediated radical polymerization of acrylamide in aqueous solution. *Journal of Polymer Science Part A*, **2009**, 47, 6919-6931	2.5	42
28	Synthesis and rheological properties of hydrophobically modified polyacrylamides with lateral chains of poly(propylene oxide) oligomers. *Journal of Colloid and Interface Science*, **2009**, 333, 152-63	9.3	27
27	Determination of the macromolecular dimensions of hydrophobically modified polymers by micellar size exclusion chromatography coupled with multiangle light scattering. *Analytical Chemistry*, **2009**, 81, 8993-9001	7.8	16
26	Rheological Behavior of Bigrafted Hydrophobically Modified Polyelectrolyte. *Macromolecules*, **2009** , 42, 4914-4917	5.5	12
25	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). *Colloids and Surfaces A: Physicochemical and Engineering Aspects*, **2008**, 322, 211-218	5.1	44
24	Nitroxide-mediated radical polymerization of acrylamide in water solution. *European Polymer Journal*, **2008**, 44, 50-58	5.2	48
23	Polyaniline Composites for Chemical Sensors and Release Devices. *Sensor Letters*, **2008**, 6, 548-557	0.9	3
22	Hydrophobically modified associating polyacrylamide (HAPAM) synthesized by micellar copolymerization at high monomer concentration. *European Polymer Journal*, **2007**, 43, 824-834	5.2	66
21	Kinetic aspects, rheological properties and mechanoelectrical effects of hydrogels composed of polyacrylamide and polystyrene nanoparticles. *Soft Matter*, **2007**, 3, 437-447	3.6	20
20	Radical copolymerization of N-vinylcarbazole and p-bromostyrene: determination of monomer reactivity ratios by SEC-multidetection. *Polymer*, **2006**, 47, 2280-2288	3.9	8
19	A small-angle neutron scattering study of sodium dodecyl sulfate-poly(propylene oxide) methacrylate mixed micelles. *Journal of Colloid and Interface Science*, **2006**, 295, 417-26	9.3	5
18	Poly(ethylene oxide)- and poly (acrylamide)-based water-soluble associative polymers: synthesis, characterisation, properties in solution. *Polymer International*, **2006**, 55, 1169-1176	3.3	20
17	Micellar copolymerization of associative polymers: study of the effect of acrylamide on sodium dodecyl sulfate-poly(propylene oxide) methacrylate mixed micelles. *Journal of Colloid and Interface Science*, **2005**, 289, 359-70	9.3	18
16	Hydrophobically associating polyacrylamides and their partially hydrolyzed derivatives prepared by post-modification. 2. Properties of non-hydrolyzed polymers in pure water and brine. *Polymer*, **2005** , 46, 9283-9295	3.9	136
15	Aggregation number and critical micellar concentration of surfactant determined by time-dependent static light scattering (TDSLS) and conductivity. *Colloids and Surfaces A: Physicochemical and Engineering Aspects*, **2005**, 252, 105-111	5.1	57

14	Water-soluble poly(ethylene oxide)-block-poly(p-phenylene vinylene) copolymer: Synthesis and characterization. *Journal of Polymer Science Part A*, **2005**, 43, 4337-4350	2.5	9
13	Study of sodium dodecyl sulfate-poly(propylene oxide) methacrylate mixed micelles. *Langmuir*, **2004**, 20, 5759-69	4	25
12	Competitive functionalization and chain scission on segmented polymers: chain length and chain length distribution in the reacted polymers. *Polymer Degradation and Stability*, **2003**, 80, 357-361	4.7	1
11	Online Polymerization Monitoring in a Continuous Reactor. *Macromolecular Chemistry and Physics*, **2002**, 203, 586-597	2.6	20
10	Study of sodium dodecyl sulfate/poly(propylene oxide) methacrylate mixed micelles for the synthesis of thermo-associative polymers by micellar polymerization. *Polymer International*, **2002**, 51, 958-965	3.3	29
9	Effects of NaCl on steady rheological behaviour in aqueous solutions of hydrophobically modified polyacrylamide and its partially hydrolyzed analogues prepared by post-modification. *Polymer International*, **2002**, 51, 939-947	3.3	54
8	Hydrophobically associating polyacrylamides and their partially hydrolyzed derivatives prepared by post-modification. 1. Synthesis and characterization. *Polymer*, **2002**, 43, 2055-2064	3.9	130
7	Neutron scattering of hydrophobically modified poly(ethylene oxide) in aqueous solutions in the presence of latex particles. *Polymer*, **2002**, 43, 2677-2689	3.9	8
6	Associating behaviour of polyacrylamide modified with a new hydrophobic zwitterionic monomer. *Polymer International*, **2001**, 50, 1162-1169	3.3	27
5	Online Monitoring of Chain Transfer in Free-Radical Polymerization. *Macromolecular Chemistry and Physics*, **2001**, 202, 2518-2524	2.6	18
4	New super-hairy semi-rigid polymers. *Macromolecular Chemistry and Physics*, **1998**, 199, 239-246	2.6	13
3	Segmented Poly(tetramethylene oxide) Zwitterionomers and Their Homologous Ionenes. 2. Phase Separation through DSC and Solid State 1H-NMR Spectroscopy. *Macromolecules*, **1997**, 30, 236-245	5.5	26
2	Segmented Poly(tetramethylene oxide) Zwitterionomers and Their Homologous Ionenes. 3. Structural Study through SAXS and SANS Measurements. *Macromolecules*, **1997**, 30, 2075-2084	5.5	15
1	Segmented Poly(tetramethylene oxide) Zwitterionomers and Their Homologous Ionenes. 1. Synthesis, Molecular Characterization, and Thermal Stability. *Macromolecules*, **1995**, 28, 7035-7045	5.5	20