

Jana Falkenhagen

List of Publications by Year in descending order

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47
papers

1,820
citations

304743

22
h-index

265206

42
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58
all docs

58
docs citations

58
times ranked

2056
citing authors

#	ARTICLE	IF	CITATIONS
1	Comparison of different methods for MP detection: What can we learn from them, and why asking the right question before measurements matters?. <i>Environmental Pollution</i> , 2017, 231, 1256-1264.	7.5	254
2	Controlled folding of synthetic polymer chains through the formation of positionable covalent bridges. <i>Nature Chemistry</i> , 2011, 3, 234-238.	13.6	243
3	Mass spectrometry in polymer chemistry: a state-of-the-art up-date. <i>Polymer Chemistry</i> , 2010, 1, 599.	3.9	215
4	Characterization of Block Copolymers by Liquid Adsorption Chromatography at Critical Conditions. 1. Diblock Copolymers. <i>Macromolecules</i> , 2000, 33, 3687-3693.	4.8	103
5	Facile conversion of RAFT polymers into hydroxyl functional polymers: a detailed investigation of variable monomer and RAFT agent combinations. <i>Polymer Chemistry</i> , 2010, 1, 634.	3.9	76
6	Structure-property relationships of nanocomposites based on polylactide and MgAl layered double hydroxides. <i>European Polymer Journal</i> , 2015, 68, 338-354.	5.4	59
7	Principle of Two-Dimensional Characterization of Copolymers. <i>Analytical Chemistry</i> , 2007, 79, 4814-4819.	6.5	52
8	Fractionation and Solvent-Free MALDI-MS Analysis of Polymers Using Liquid Adsorption Chromatography at Critical Conditions in Combination with a Multisample On-Target Homogenization/Transfer Sample Preparation Method. <i>Analytical Chemistry</i> , 2007, 79, 7565-7570.	6.5	49
9	Determination of Critical Conditions of Adsorption for Chromatography of Polymers. <i>Analytical Chemistry</i> , 2009, 81, 282-287.	6.5	47
10	Imaging mass spectrometry for examining localization of polymeric composition in matrix-assisted laser desorption/ionization samples. <i>Rapid Communications in Mass Spectrometry</i> , 2009, 23, 653-660.	1.5	43
11	Vibrational density of states of triphenylene based discotic liquid crystals: dependence on the length of the alkyl chain. <i>Physical Chemistry Chemical Physics</i> , 2014, 16, 7324-7333.	2.8	39
12	Quantification of PEG-Maleimide Ligands and Coupling Efficiencies on Nanoparticles with Ellman's Reagent. <i>Analytical Chemistry</i> , 2015, 87, 9376-9383.	6.5	39
13	A novel software tool for copolymer characterization by coupling of liquid chromatography with matrix-assisted laser desorption/ionization time-of-flight mass spectrometry. <i>Rapid Communications in Mass Spectrometry</i> , 2007, 21, 2750-2758.	1.5	38
14	Ellman's and Aldrithiol Assay as Versatile and Complementary Tools for the Quantification of Thiol Groups and Ligands on Nanomaterials. <i>Analytical Chemistry</i> , 2016, 88, 8624-8631.	6.5	36
15	In-Depth LCCC-(GELC)-SEC Characterization of ABA Block Copolymers Generated by a Mechanistic Switch from RAFT to ROP. <i>Macromolecules</i> , 2012, 45, 87-99.	4.8	35
16	Characterization of New Amphiphilic Block Copolymers of N-Vinylpyrrolidone and Vinyl Acetate, 2-Chromatographic Separation and Analysis by MALDI-TOF and FT-IR Coupling. <i>Macromolecular Chemistry and Physics</i> , 2010, 211, 1678-1688.	2.2	30
17	Elucidation of the structure of poly(¹³ C-benzyl-L-glutamate) nanofibers and gel networks in a helicogenic solvent. <i>Colloid and Polymer Science</i> , 2013, 291, 1353-1363.	2.1	28
18	Detection limits of matrix-assisted laser desorption/ionisation mass spectrometry coupled to chromatography - a new application of solvent-free sample preparation. <i>Rapid Communications in Mass Spectrometry</i> , 2005, 19, 3724-3730.	1.5	27

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19	Liquid Adsorption Chromatography near Critical Conditions of Adsorption Coupled with Matrix-Assisted Laser Desorption/Ionization Mass Spectrometry. <i>International Journal of Polymer Analysis and Characterization</i> , 2000, 5, 549-562.	1.9	26
20	Structure and end-group analysis of complex hexanediol-neopentylglycol-adipic acid copolyesters by matrix-assisted laser desorption/ionization collision-induced dissociation tandem mass spectrometry. <i>Rapid Communications in Mass Spectrometry</i> , 2009, 23, 2768-2774.	1.5	26
21	An efficient avenue to poly(styrene)-block-poly(ϵ -caprolactone) polymers via switching from RAFT to hydroxyl functionality: Synthesis and characterization. <i>Journal of Polymer Science Part A</i> , 2011, 49, 1-10.	2.3	26
22	Structure-Property Relationships of Nanocomposites Based on Polylactide and Layered Double Hydroxides – Comparison of MgAl and NiAl LDH as Nanofiller. <i>Macromolecular Chemistry and Physics</i> , 2017, 218, 1700232.	2.2	26
23	Characterization of silsesquioxanes by size-exclusion chromatography and matrix-assisted laser desorption/ionization time-of-flight mass spectrometry. <i>Rapid Communications in Mass Spectrometry</i> , 2003, 17, 285-290.	1.5	22
24	Copolymer Composition Determined by LC-MALDI-TOF MS Coupling and MassChrom2 Data Analysis. <i>Macromolecular Chemistry and Physics</i> , 2012, 213, 2404-2411.	2.2	21
25	Improved Synthesis and Characterization of ϵ -Primary Amino-Functional Polystyrenes and Polydienes. <i>Macromolecules</i> , 2002, 35, 7157-7160.	4.8	20
26	Characterization of New Amphiphilic Block Copolymers of N -Vinyl Pyrrolidone and Vinyl Acetate, 1 – Analysis of Copolymer Composition, End Groups, Molar Masses and Molar Mass Distributions. <i>Macromolecular Chemistry and Physics</i> , 2010, 211, 869-878.	2.2	20
27	LC-MALDI-TOF Imaging MS: A New Approach in Combining Chromatography and Mass Spectrometry of Copolymers. <i>Analytical Chemistry</i> , 2011, 83, 9153-9158.	6.5	20
28	Cetirizine as pH-dependent cross-reactant in a carbamazepine-specific immunoassay. <i>Analyst</i> , The, 2011, 136, 1357.	3.5	19
29	Multi-Block Polyurethanes via RAFT End-Group Switching and Their Characterization by Advanced Hyphenated Techniques. <i>Macromolecules</i> , 2012, 45, 6353-6362.	4.8	17
30	Characterization of plasma-polymerized allyl alcohol polymers and copolymers with styrene. <i>Journal of Adhesion Science and Technology</i> , 2007, 21, 487-508.	2.6	14
31	Elucidation of Reaction Mechanisms and Polymer Structure: Living/Controlled Radical Polymerization. , 2012, , 373-403.		14
32	Matrix-Assisted Ionization-Ion Mobility Spectrometry-Mass Spectrometry: Selective Analysis of a Europium-PEG Complex in a Crude Mixture. <i>Journal of the American Society for Mass Spectrometry</i> , 2015, 26, 2086-2095.	2.8	14
33	SnOct ₂ -catalyzed and alcohol-initiated ROPs of L-lactide – About the influence of initiators on chemical reactions in the melt and the solid state. <i>European Polymer Journal</i> , 2021, 153, 110508.	5.4	13
34	Reversible polycondensations outside the Jacobson-Stockmayer theory and a new concept of reversible polycondensations. <i>Polymer Chemistry</i> , 2021, 12, 5003-5016.	3.9	13
35	Critical Conditions for Liquid Chromatography of Statistical Copolymers: Functionality Type and Composition Distribution Characterization by UP-LCCC/ESI-MS. <i>Analytical Chemistry</i> , 2017, 89, 1778-1786.	6.5	12
36	Covalently Fluorophore-Functionalized ZIF-8 Colloidal Particles as a Sensing Platform for Endocrine-Disrupting Chemicals Such as Phthalates Plasticizers. <i>ACS Omega</i> , 2019, 4, 17090-17097.	3.5	12

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37	Structural analysis of biodegradable low-molecular mass copolyesters based on glycolic acid, adipic acid and 1,4 butanediol and correlation with their hydrolytic degradation. <i>Polymer Degradation and Stability</i> , 2012, 97, 2091-2103.	5.8	11
38	Mapping of the Hydrophobic Composition of Lignosulfonates. <i>ACS Sustainable Chemistry and Engineering</i> , 2021, 9, 16786-16795.	6.7	10
39	Power of Ultra Performance Liquid Chromatography/Electrospray Ionization-MS Reconstructed Ion Chromatograms in the Characterization of Small Differences in Polymer Microstructure. <i>Analytical Chemistry</i> , 2018, 90, 3467-3474.	6.5	6
40	Simultaneous characterization of poly(acrylic acid) and polysaccharide polymers and copolymers. <i>Analytical Science Advances</i> , 2020, 1, 34.	2.8	3
41	Identification and Classification of Technical Lignins by means of Principle Component Analysis and kâ€Nearest Neighbor Algorithm. <i>Chemistry Methods</i> , 2021, 1, 354-361.	3.8	3
42	The role of transesterifications in reversible polycondensations and a reinvestigation of the Jacobsonâ€Beckmannâ€Stockmayer experiments. <i>Polymer Chemistry</i> , 2022, 13, 1177-1185.	3.9	3
43	Characterization of Silicon-Containing Polymers by Coupling of HPLC-Separation Methods with MALDI-TOF Mass Spectrometry. , 0, , 406-418.		2
44	Characterization of copolymers of polycarbonate and polydimethylsiloxane by 2D chromatographic separation, MALDI-TOF mass spectrometry, and FTIR spectroscopy. <i>International Journal of Polymer Analysis and Characterization</i> , 2020, 25, 553-564.	1.9	2
45	Characterization of Randomly Branched Polymers Utilizing Liquid Chromatography and Mass Spectrometry. , 2014, , 141-150.		1
46	Identification and Classification of Technical Lignins by means of Principle Component Analysis and kâ€Nearest Neighbor Algorithm. <i>Chemistry Methods</i> , 2021, 1, 352-353.	3.8	0
47	Combined impact of UV radiation and nitric acid on highâ€density polyethylene containers as a laboratory test. <i>Packaging Technology and Science</i> , 0, , .	2.8	0