

Laurence Charles

List of Publications by Citations

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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.

170
papers

3,425
citations

32
h-index

48
g-index

174
ext. papers

3,859
ext. citations

5.2
avg. IF

5.62
L-index

#	Paper	IF	Citations
170	Design and synthesis of digitally encoded polymers that can be decoded and erased. <i>Nature Communications</i> , 2015 , 6, 7237	17.4	214
169	Synthesis of non-natural sequence-encoded polymers using phosphoramidite chemistry. <i>Journal of the American Chemical Society</i> , 2015 , 137, 5629-35	16.4	148
168	Synthesis of Monodisperse Sequence-Coded Polymers with Chain Lengths above DP100. <i>ACS Macro Letters</i> , 2015 , 4, 1077-1080	6.6	119
167	Orthogonal Synthesis of "Easy-to-Read" Information-Containing Polymers Using Phosphoramidite and Radical Coupling Steps. <i>Journal of the American Chemical Society</i> , 2016 , 138, 9417-20	16.4	85
166	Chemoselective Synthesis of Uniform Sequence-Coded Polyurethanes and Their Use as Molecular Tags. <i>CheM</i> , 2016 , 1, 114-126	16.2	75
165	Mass spectrometry sequencing of long digital polymers facilitated by programmed inter-byte fragmentation. <i>Nature Communications</i> , 2017 , 8, 967	17.4	71
164	Comprehensive Synthesis of Monohydroxy-Cucurbit[n]urils (n = 5, 6, 7, 8): High Purity and High Conversions. <i>Journal of the American Chemical Society</i> , 2015 , 137, 10238-45	16.4	71
163	Electrospray Ion Chromatography-Tandem Mass Spectrometry of Oxyhalides at Sub-ppb Levels. <i>Analytical Chemistry</i> , 1998 , 70, 353-359	7.8	60
162	Electrospray Ion Chromatography-Tandem Mass Spectrometry of Bromate at Sub-ppb Levels in Water. <i>Analytical Chemistry</i> , 1996 , 68, 2554-8	7.8	57
161	MALDI of synthetic polymers with labile end-groups. <i>Mass Spectrometry Reviews</i> , 2014 , 33, 523-43	11	55
160	MS/MS Sequencing of Digitally Encoded Poly(alkoxyamine amide)s. <i>Macromolecules</i> , 2015 , 48, 4319-4328	8.5	53
159	Coding in 2D: Using Intentional Dispersity to Enhance the Information Capacity of Sequence-Coded Polymer Barcodes. <i>Angewandte Chemie - International Edition</i> , 2016 , 55, 10722-5	16.4	53
158	Preparation of Information-Containing Macromolecules by Ligation of Dyad-Encoded Oligomers. <i>Chemistry - A European Journal</i> , 2015 , 21, 11961-5	4.8	47
157	Photoreactivity of the sunscreen butylmethoxydibenzoylmethane (DBM) under various experimental conditions. <i>Journal of Photochemistry and Photobiology A: Chemistry</i> , 2008 , 196, 106-112	4.7	47
156	Identification-Tagging of Methacrylate-Based Intraocular Implants Using Sequence Defined Polyurethane Barcodes. <i>Advanced Functional Materials</i> , 2017 , 27, 1604595	15.6	46
155	MS/MS Digital Readout: Analysis of Binary Information Encoded in the Monomer Sequences of Poly(triazole amide)s. <i>Analytical Chemistry</i> , 2016 , 88, 3715-22	7.8	46
154	CO ₂ binding by dynamic combinatorial chemistry: an environmental selection. <i>Journal of the American Chemical Society</i> , 2010 , 132, 3582-93	16.4	45

153	A Fluorinated Bola-Amphiphilic Dendrimer for On-Demand Delivery of siRNA, via Specific Response to Reactive Oxygen Species. <i>Advanced Functional Materials</i> , 2016 , 26, 8594-8603	15.6	44
152	Temporary intramolecular generation of pyridine carbenes in metal-free three-component C-H bond functionalisation/aryl-transfer reactions. <i>Chemistry - A European Journal</i> , 2013 , 19, 17578-83	4.8	43
151	A Simple Post-Polymerization Modification Method for Controlling Side-Chain Information in Digital Polymers. <i>Angewandte Chemie - International Edition</i> , 2017 , 56, 7297-7301	16.4	41
150	Convergent synthesis of digitally-encoded poly(alkoxyamine amide)s. <i>Chemical Communications</i> , 2015 , 51, 15677-80	5.8	41
149	Generation and dissociation pathways of singly and doubly protonated bisguanidines in the gas phase. <i>Journal of Physical Chemistry A</i> , 2008 , 112, 12097-103	2.8	41
148	Tandem mass spectrometry of doubly charged poly(ethylene oxide) oligomers produced by electrospray ionization. <i>International Journal of Mass Spectrometry</i> , 2008 , 272, 1-11	1.9	40
147	SG1-Functionalized Peptides as Precursors for PolymerPeptide Conjugates: A Straightforward Approach. <i>Macromolecules</i> , 2010 , 43, 4864-4870	5.5	39
146	Microstructural study of a nitroxide-mediated poly(ethylene oxide)/polystyrene block copolymer (PEO-b-PS) by electrospray tandem mass spectrometry. <i>Journal of the American Society for Mass Spectrometry</i> , 2008 , 19, 1163-75	3.5	39
145	Heterogeneous modification of chitosan via nitroxide-mediated polymerization. <i>Polymer Chemistry</i> , 2013 , 4, 322-328	4.9	36
144	Influence of internal standard charge state on the accuracy of mass measurements in orthogonal acceleration time-of-flight mass spectrometers. <i>Rapid Communications in Mass Spectrometry</i> , 2008 , 22, 151-5	2.2	36
143	Role of the Adducted Cation in the Release of Nitroxide End Group of Controlled Polymer in Mass Spectrometry. <i>Macromolecules</i> , 2009 , 42, 1849-1859	5.5	35
142	Tandem mass spectrometry of trimethylsilyl-terminated poly(dimethylsiloxane) ammonium adducts generated by electrospray ionization. <i>Journal of the American Society for Mass Spectrometry</i> , 2011 , 22, 649-58	3.5	34
141	Stereoselective Syntheses, Structures, and Properties of Extremely Distorted Chiral Nanographenes Embedding Hextuple Helicenes. <i>Angewandte Chemie - International Edition</i> , 2020 , 59, 3264-3271	16.4	34
140	Scope and limitations of the nitroxide-mediated radical ring-opening polymerization of cyclic ketene acetals. <i>Polymer Chemistry</i> , 2013 , 4, 4776	4.9	33
139	On-line coupling of liquid chromatography at critical conditions with electrospray ionization tandem mass spectrometry for the characterization of a nitroxide-mediated poly(ethylene oxide)/polystyrene block copolymer. <i>Rapid Communications in Mass Spectrometry</i> , 2008 , 22, 3767-75	2.2	33
138	MS/MS-Assisted Design of Sequence-Controlled Synthetic Polymers for Improved Reading of Encoded Information. <i>Journal of the American Society for Mass Spectrometry</i> , 2017 , 28, 1149-1159	3.5	32
137	MS-DECODER: Milliseconds Sequencing of Coded Polymers. <i>Macromolecules</i> , 2017 , 50, 8290-8296	5.5	32
136	Cleavable Binary Dyads: Simplifying Data Extraction and Increasing Storage Density in Digital Polymers. <i>Angewandte Chemie - International Edition</i> , 2018 , 57, 6266-6269	16.4	32

135	Alpha-phenyl-N-tert-butyl-nitrone-type derivatives bound to beta-cyclodextrins: syntheses, thermokinetics of self-inclusion and application to superoxide spin-trapping. <i>Chemistry - A European Journal</i> , 2007 , 13, 9344-54	4.8	32
134	Direct analysis of semivolatile organic compounds in air by atmospheric pressure chemical ionization mass spectrometry. <i>Analytical Chemistry</i> , 2001 , 73, 5061-5	7.8	32
133	2D Sequence-Coded Oligourethane Barcodes for Plastic Materials Labeling. <i>Macromolecular Rapid Communications</i> , 2017 , 38, 1700426	4.8	31
132	Improved compositional analysis of block copolymers using diffusion ordered NMR spectroscopy. <i>Analytica Chimica Acta</i> , 2009 , 654, 45-8	6.6	31
131	Redox reactions of copper(II) upon electrospray ionization in the presence of acridine ligands with an amide side chain. <i>Journal of Physical Organic Chemistry</i> , 2009 , 22, 229-233	2.1	28
130	Analysis of oxyhalides in water by ion chromatography-ionspray mass spectrometry. <i>Journal of Chromatography A</i> , 1998 , 804, 105-11	4.5	28
129	Use of pulsed gradient spin-echo NMR as a tool in MALDI method development for polymer molecular weight determination. <i>Analytical Chemistry</i> , 2006 , 78, 2758-64	7.8	28
128	Photo-editable macromolecular information. <i>Nature Communications</i> , 2019 , 10, 3774	17.4	27
127	Abiotic Sequence-Coded Oligomers as Efficient In Vivo Taggants for the Identification of Implanted Materials. <i>Angewandte Chemie - International Edition</i> , 2018 , 57, 10574-10578	16.4	27
126	Propagation of structural deviations of poly(amidoamine) fan-shape dendrimers (generations 0B) characterized by MALDI and electrospray mass spectrometry. <i>International Journal of Mass Spectrometry</i> , 2007 , 266, 62-75	1.9	27
125	Molecular weight determination of block copolymers by pulsed gradient spin echo NMR. <i>Analytical Chemistry</i> , 2009 , 81, 8054-60	7.8	26
124	External interface for trap-and-release membrane introduction mass spectrometry applied to the detection of inorganic chloramines and chlorobenzenes in water. <i>Rapid Communications in Mass Spectrometry</i> , 2001 , 15, 2290-5	2.2	26
123	Controlling the structure of sequence-defined poly(phosphodiester)s for optimal MS/MS reading of digital information. <i>Journal of Mass Spectrometry</i> , 2017 , 52, 788-798	2.2	25
122	Synthesis of polystyrene-grafted cellulose acetate copolymers via nitroxide-mediated polymerization. <i>Polymer Chemistry</i> , 2015 , 6, 5244-5253	4.9	25
121	Synthesis and spin-trapping behavior of 5-ChEPMPO, a cholesteryl ester analogue of the spin trap DEPMPO. <i>Journal of Organic Chemistry</i> , 2005 , 70, 10426-33	4.2	25
120	Characterization of ethanolysis products of poly(dimethylsiloxane) species by electrospray ionization tandem mass spectrometry. <i>Rapid Communications in Mass Spectrometry</i> , 2012 , 26, 2057-67	2.2	24
119	Tandem mass spectrometry of poly(methacrylic Acid) oligomers produced by negative mode electrospray ionization. <i>Journal of the American Society for Mass Spectrometry</i> , 2009 , 20, 25-33	3.5	24
118	Tandem mass spectrometry sequencing in the negative ion mode to read binary information encoded in sequence-defined poly(alkoxyamine amide)s. <i>Rapid Communications in Mass Spectrometry</i> , 2016 , 30, 22-8	2.2	24

117	High-Capacity Digital Polymers: Storing Images in Single Molecules. <i>Macromolecules</i> , 2020 , 53, 4022-4029	3.5	23
116	A well-defined block copolymer synthesis via living cationic polymerization and nitroxide-mediated polymerization using carboxylic acid-based alkoxyamines as a dual initiator. <i>Polymer Chemistry</i> , 2016 , 7, 1659-1667	4.9	23
115	Straightforward and Controlled Shape Access to Efficient Macrocyclic Imidazolylboronium Anion Receptors. <i>Chemistry - A European Journal</i> , 2016 , 22, 8937-42	4.8	23
114	Positive mode electrospray tandem mass spectrometry of poly(methacrylic acid) oligomers. <i>Rapid Communications in Mass Spectrometry</i> , 2009 , 23, 1557-62	2.2	22
113	Tuning block copolymer structural information by adjusting salt concentration in liquid chromatography at critical conditions coupled with electrospray tandem mass spectrometry. <i>Rapid Communications in Mass Spectrometry</i> , 2009 , 23, 1476-82	2.2	21
112	Determination of block size in poly(ethylene oxide)-b-polystyrene block copolymers by matrix-assisted laser desorption/ionization time-of-flight mass spectrometry. <i>Journal of Polymer Science Part A</i> , 2009 , 47, 3380-3390	2.5	20
111	Distinction and quantitation of sugar isomers in ternary mixtures using the kinetic method. <i>Journal of the American Society for Mass Spectrometry</i> , 2010 , 21, 60-7	3.5	20
110	Tandem mass spectrometry of electrosprayed polyhedral oligomeric silsesquioxane compounds with different substituents. <i>Rapid Communications in Mass Spectrometry</i> , 2012 , 26, 765-74	2.2	19
109	Cooperative binding and self-assembling behavior of cationic low molecular-weight dendrons with RNA molecules. <i>Organic and Biomolecular Chemistry</i> , 2006 , 4, 581-5	3.9	19
108	Characterisation of free radical spin adducts of the cyclic β -phosphorylated nitrene DEPMPO using tandem mass spectrometry. <i>International Journal of Mass Spectrometry</i> , 2006 , 252, 47-53	1.9	19
107	Flow injection of the lock mass standard for accurate mass measurement in electrospray ionization time-of-flight mass spectrometry coupled with liquid chromatography. <i>Rapid Communications in Mass Spectrometry</i> , 2003 , 17, 1383-8	2.2	19
106	High surface area membrane introduction mass spectrometry for analysis of volatile and semi-volatile organic compounds in air. <i>Rapid Communications in Mass Spectrometry</i> , 2001 , 15, 1520-1524	2.2	19
105	Stereoselective Syntheses, Structures, and Properties of Extremely Distorted Chiral Nanographenes Embedding Hextuple Helicenes. <i>Angewandte Chemie</i> , 2020 , 132, 3290-3297	3.6	19
104	Analytical strategy for the molecular weight determination of random copolymers of poly(methyl methacrylate) and poly(methacrylic acid). <i>Journal of the American Society for Mass Spectrometry</i> , 2010 , 21, 1075-85	3.5	17
103	Conformational sensitivity of conjugated poly(ethylene oxide)-poly(amidoamine) molecules to cations adducted upon electrospray ionization - a mass spectrometry, ion mobility and molecular modeling study. <i>Analytica Chimica Acta</i> , 2014 , 808, 163-74	6.6	16
102	Triangular Regulation of Cucurbit[8]uril 1:1 Complexes. <i>Journal of the American Chemical Society</i> , 2019 , 141, 5897-5907	16.4	16
101	Collision-induced dissociation of synthetic polymers containing hydride groups: the case of poly(methylhydrosiloxane) homopolymers and poly(methylhydrosiloxane)-co-(dimethylsiloxane) copolymers. <i>Rapid Communications in Mass Spectrometry</i> , 2013 , 27, 88-96	2.2	15
100	Dissociation characteristics of β -hydride poly(dimethylsiloxane) ammonium adducts generated by electrospray ionization. <i>International Journal of Mass Spectrometry</i> , 2011 , 306, 70-76	1.9	15

- 99 A combined spin trapping/EPR/mass spectrometry approach to study the formation of a cyclic peroxide by dienolic precursor autoxidation. *Organic and Biomolecular Chemistry*, **2010**, 8, 1361-7 3.9 15
- 98 Insights in Molecular Structure of Organosilicon Plasma Polymer Produced by Means of Atmospheric Pressure Dielectric Barrier Discharge Process. *Plasma Processes and Polymers*, **2010**, 7, 687-694 3.4 15
- 97 Using solvent-free sample preparation to promote protonation of poly(ethylene oxide)s with labile end-groups in matrix-assisted laser desorption/ionisation. *Rapid Communications in Mass Spectrometry*, **2008**, 22, 3776-82 2.2 15
- 96 Coupling of size-exclusion chromatography with electrospray ionization charge-detection mass spectrometry for the characterization of synthetic polymers of ultra-high molar mass. *Rapid Communications in Mass Spectrometry*, **2016**, 30, 132-6 2.2 14
- 95 Negative mode MS/MS to read digital information encoded in sequence-defined oligo(urethane)s: A mechanistic study. *International Journal of Mass Spectrometry*, **2017**, 421, 271-278 1.9 14
- 94 Eine einfache Methode der nachträglichen Modifizierung zur Kontrolle der Seitenketteninformation digitaler Polymere. *Angewandte Chemie*, **2017**, 129, 7403-7407 3.6 14
- 93 Synthesis of oligoarylacetylenes with defined conjugated sequences using tailor-made soluble polymer supports. *Chemical Communications*, **2017**, 53, 8312-8315 5.8 14
- 92 Synthesis of poly(amino)ester dendrimers via active cyanomethyl ester intermediates. *Journal of Organic Chemistry*, **2010**, 75, 8685-8 4.2 14
- 91 Structural characterization of a poly(methacrylic acid)-poly(methyl methacrylate) copolymer by nuclear magnetic resonance and mass spectrometry. *Analytica Chimica Acta*, **2009**, 654, 49-58 6.6 14
- 90 Sheath liquid interface for the coupling of normal-phase liquid chromatography with electrospray mass spectrometry and its application to the analysis of neoflavonoids. *Journal of Mass Spectrometry*, **2005**, 40, 75-82 2.2 14
- 89 Effects of liquid phase composition on salt cluster formation in positive ion mode electrospray mass spectrometry: implications for clustering mechanism in electrospray. *Journal of the American Society for Mass Spectrometry*, **2001**, 12, 1077-84 3.5 14
- 88 Coding in 2D: Using Intentional Dispersity to Enhance the Information Capacity of Sequence-Coded Polymer Barcodes. *Angewandte Chemie*, **2016**, 128, 10880-10883 3.6 14
- 87 Efficient Protocol for the Synthesis of α -Coded β -Oligo- and Poly(N-Substituted Urethanes). *ACS Macro Letters*, **2019**, 8, 1002-1005 6.6 13
- 86 Solid state nuclear magnetic resonance as a tool to explore solvent-free MALDI samples. *Journal of the American Society for Mass Spectrometry*, **2009**, 20, 1906-11 3.5 13
- 85 Electrospray tandem mass spectrometry combined with authentic compound synthesis for structural characterization of an octamethylcyclotetrasiloxane plasma polymer. *International Journal of Mass Spectrometry*, **2012**, 313, 58-67 1.9 12
- 84 Methylation of acidic moieties in poly(methyl methacrylate-co-methacrylic acid) copolymers for end-group characterization by tandem mass spectrometry. *Rapid Communications in Mass Spectrometry*, **2010**, 24, 1941-7 2.2 12
- 83 Effects of the herbicide atrazine on the activated sludge process: microbiology and functional views. *Chemosphere*, **1996**, 33, 479-494 8.4 12
- 82 Revealing Data Encrypted in Sequence-Controlled Poly(Alkoxyamine Phosphodiester)s by Combining Ion Mobility with Tandem Mass Spectrometry. *Analytical Chemistry*, **2019**, 91, 7266-7272 7.8 11

81	Cleavable Binary Dyads: Simplifying Data Extraction and Increasing Storage Density in Digital Polymers. <i>Angewandte Chemie</i> , 2018 , 130, 6374-6377	3.6	11
80	End-group characterization of poly(styrene sulfonate sodium salt) by activated electron photo-detachment dissociation. <i>Rapid Communications in Mass Spectrometry</i> , 2011 , 25, 3259-66	2.2	11
79	Nucleophile addition of reduced glutathione on 2-methyl-2-nitroso compound: a combined electron paramagnetic resonance spectroscopy and electrospray tandem mass spectrometry study. <i>Journal of the American Society for Mass Spectrometry</i> , 2009 , 20, 2013-20	3.5	11
78	Abiotic Sequence-Coded Oligomers as Efficient In Vivo Taggants for the Identification of Implanted Materials. <i>Angewandte Chemie</i> , 2018 , 130, 10734-10738	3.6	10
77	A Cucurbit[8]uril 2:2 Complex with a Negative pK Shift. <i>Chemistry - A European Journal</i> , 2019 , 25, 12552-12559	4.5	10
76	Photocontrolled Synthesis of Abiotic Sequence-Defined Oligo(Phosphodiester)s. <i>Macromolecular Rapid Communications</i> , 2017 , 38, 1700651	4.8	10
75	Insights in the Architecture of Silicon-Based Plasma Polymers Using Partial Network Ethanolysis Combined with Electrospray Tandem Mass Spectrometry. <i>Plasma Processes and Polymers</i> , 2013 , 10, 271-284	3.4	10
74	A study of the cesium cation bonding to carboxylate anions by the kinetic method and quantum chemical calculations. <i>Journal of Mass Spectrometry</i> , 2010 , 45, 520-7	2.2	10
73	Sequence-coded ATRP macroinitiators. <i>Polymer Chemistry</i> , 2017 , 8, 4988-4991	4.9	9
72	Structural characterization of new defective molecules in poly(amidoamide) dendrimers by combining mass spectrometry and nuclear magnetic resonance. <i>Analytica Chimica Acta</i> , 2015 , 853, 451-459	6.6	9
71	Optimal ATRP-Made Soluble Polymer Supports for Phosphoramidite Chemistry. <i>Chemistry - A European Journal</i> , 2016 , 22, 3462-3469	4.8	9
70	Use of doubly charged precursors to validate dissociation mechanisms of singly charged poly(dimethylsiloxane) oligomers. <i>Journal of the American Society for Mass Spectrometry</i> , 2013 , 24, 1123-9	3.5	9
69	Successful MALDI-MS analysis of synthetic polymers with labile end-groups: the case of nitroxide-mediated polymerization using the MAMA-SG1 alkoxyamine. <i>Chemistry - A European Journal</i> , 2012 , 18, 7916-24	4.8	9
68	Isomeric distinction of small oligosaccharides: a bottom-up approach using the kinetic method. <i>Journal of the American Society for Mass Spectrometry</i> , 2011 , 22, 1252-9	3.5	9
67	Analysis of amitrole by normal-phase liquid chromatography and tandem mass spectrometry using a sheath liquid electrospray interface. <i>Rapid Communications in Mass Spectrometry</i> , 2006 , 20, 892-6	2.2	9
66	Conversion of dehydroepiandrosterone sulfate at physiological plasma concentration into estrogens in MCF-7 cells. <i>Steroids</i> , 2002 , 67, 1057-64	2.8	9
65	Ion mobility spectrometry - Mass spectrometry coupling for synthetic polymers. <i>Rapid Communications in Mass Spectrometry</i> , 2020 , 34 Suppl 2, e8624	2.2	9
64	Design of Abiological Digital Poly(phosphodiester)s. <i>Accounts of Chemical Research</i> , 2021 , 54, 1791-1800	2.3	9

63	Structural characterization of a poly(methacrylic acid)/poly(methylmethacrylate) copolymer by activated electron photo-detachment dissociation. <i>International Journal of Mass Spectrometry</i> , 2013 , 333, 27-33	1.9	8
62	Structural characterization of poly(amino)ester dendrimers and related impurities by electrospray tandem mass spectrometry. <i>Rapid Communications in Mass Spectrometry</i> , 2010 , 24, 2207-16	2.2	8
61	Detection and identification of various carbon-centred free radicals using N-arylketonitrone: a spin trapping/EPR/MS study. <i>New Journal of Chemistry</i> , 2008 , 32, 680-688	3.6	8
60	Efficient structural characterization of poly(methacrylic acid) by activated-electron photodetachment dissociation. <i>Journal of the American Society for Mass Spectrometry</i> , 2012 , 23, 7-11	3.5	7
59	Generation of doubly charged species from small synthetic polymers in a high pressure MALDI source. <i>International Journal of Mass Spectrometry</i> , 2017 , 416, 46-52	1.9	7
58	End-group cleavage in MALDI of ATRP-made polystyrene: a silver-catalyzed reaction during sample preparation. <i>Analytical Chemistry</i> , 2013 , 85, 5454-62	7.8	7
57	Indirect Tertiary Alcohol Enantiocontrol by Acylative Organocatalytic Kinetic Resolution. <i>Organic Letters</i> , 2021 , 23, 4332-4336	6.2	7
56	Structural characterization of polymethoxymethylsiloxanes by electrospray ionization tandem mass spectrometry. <i>International Journal of Mass Spectrometry</i> , 2016 , 402, 42-48	1.9	6
55	Successful MALDI mass spectrometry of poly(4-vinylpyridine) using a solvent-free sample preparation. <i>International Journal of Mass Spectrometry</i> , 2015 , 376, 90-96	1.9	6
54	Measuring Gas-Phase Basicities Relative to the Lithium Cation by Mass Spectrometry: A Physical Chemistry Experiment. <i>Journal of Chemical Education</i> , 2012 , 89, 1476-1478	2.4	6
53	Synthesis of tris-hydroxymethyl-based nitronone derivatives with highly reactive nitronyl carbon. <i>Journal of Organic Chemistry</i> , 2012 , 77, 938-48	4.2	6
52	Damage and Repair in Informational Poly(N-substituted urethane)s. <i>Angewandte Chemie - International Edition</i> , 2020 , 59, 20390-20393	16.4	6
51	Precise Alkoxyamine Design to Enable Automated Tandem Mass Spectrometry Sequencing of Digital Poly(phosphodiester)s. <i>Angewandte Chemie - International Edition</i> , 2021 , 60, 917-926	16.4	6
50	Desorption Electrospray Ionization (DESI) of Digital Polymers: Direct Tandem Mass Spectrometry Decoding and Imaging from Materials Surfaces. <i>Advanced Materials Technologies</i> , 2021 , 6, 2001088	6.8	6
49	Mass spectrometry of nitroxide-terminated poly(4-vinylpyridine): A case of unwanted reactive MALDI. <i>International Journal of Mass Spectrometry</i> , 2016 , 405, 50-58	1.9	5
48	Convenient Graphical Visualization of Messages Encoded in Sequence-Defined Synthetic Polymers Using Kendrick Mass Defect Analysis of their MS/MS Data. <i>Macromolecular Chemistry and Physics</i> , 2018 , 219, 1800173	2.6	5
47	Conformational changes of small PAMAM dendrimers as a function of their charge state: A combined electrospray mass spectrometry, traveling-wave ion mobility and molecular modeling study. <i>International Journal of Mass Spectrometry</i> , 2013 , 354-355, 235-241	1.9	5
46	Towards the rationalization of the MALDI process: a combined mass spectrometry/solid-state NMR approach. <i>Analytical Methods</i> , 2012 , 4, 3118	3.2	5

45	Stability of SG1 nitroxide towards unprotected sugar and lithium salts: a preamble to cellulose modification by nitroxide-mediated graft polymerization. <i>Beilstein Journal of Organic Chemistry</i> , 2013 , 9, 1589-600	2.5	5
44	5-Hydroxy-2,2,6,6-tetramethyl-4-(2-methylprop-1-en-yl)cyclohex-4-ene-1,3-dione, a novel cheletropic trap for nitric oxide EPR detection. <i>Chemical Communications</i> , 2010 , 46, 3675-7	5.8	5
43	Selectivity of electrospray response in small polymer analysis by mass spectrometry. <i>Rapid Communications in Mass Spectrometry</i> , 2006 , 20, 3188-92	2.2	5
42	Optimal conditions for tandem mass spectrometric sequencing of information-containing nitrogen-substituted polyurethanes. <i>Rapid Communications in Mass Spectrometry</i> , 2020 , 34, e8815	2.2	4
41	Fragmentation pathways of methacrylic homopolymers with labile trialkylsilyl ester side-groups: mass spectrometric investigation of the RAFT process. <i>International Journal of Mass Spectrometry</i> , 2012 , 311, 31-39	1.9	4
40	Elucidation of a side reaction occurring during nitroxide-mediated polymerization of cyclic ketene acetals by tandem mass spectrometric end-group analysis of aliphatic polyesters. <i>Rapid Communications in Mass Spectrometry</i> , 2015 , 29, 2302-8	2.2	4
39	Reactions of nitric oxide and nitrogen dioxide with coenzyme Q: involvement of the isoprenic chain. <i>Organic and Biomolecular Chemistry</i> , 2013 , 11, 1399-406	3.9	4
38	Combining EPR and ESI-MS/MS to study the reactivity of alkylthiols and cysteine towards 2-methyl-2-nitrosopropane (MNP). <i>Analytical Methods</i> , 2010 , 2, 694	3.2	4
37	Effect of in the mobile phase on the critical conditions of poly(ethylene glycol) in liquid chromatography-mass spectrometry coupling. <i>Analytical Methods</i> , 2009 , 1, 128-131	3.2	4
36	Chemometric approach to evaluate the parameters affecting electrospray: application of a statistical design of experiments for the study of arginine ionization. <i>European Journal of Mass Spectrometry</i> , 2005 , 11, 361-70	1.1	4
35	Promoting carboxylate salts in the ESI source to simplify positive mode MS/MS sequencing of acid-terminated encoded polyurethanes. <i>International Journal of Mass Spectrometry</i> , 2020 , 448, 116271	1.9	4
34	Selective Bond Cleavage in Informational Poly(Alkoxyamine Phosphodiester)s. <i>Macromolecular Rapid Communications</i> , 2020 , 41, e2000215	4.8	4
33	Adduction of ammonium to polylactides to modify their dissociation behavior in collision-induced dissociation. <i>Rapid Communications in Mass Spectrometry</i> , 2018 , 32, 423-430	2.2	3
32	Orthogonal Synthesis of Xeno Nucleic Acids. <i>Chemistry - A European Journal</i> , 2016 , 22, 17945-17948	4.8	3
31	Electrospray tandem mass spectrometry of poly(amino)ester dendrimers: Dissociation rules and structural characterization of defective molecules. <i>International Journal of Mass Spectrometry</i> , 2011 , 308, 56-64	1.9	3
30	Differentiation of heterocyclic regioisomers: a combined tandem mass spectrometry and computational study of N-acridin-4-ylbenzylamide and N-acridin-2-yl-benzylamide. <i>Rapid Communications in Mass Spectrometry</i> , 2008 , 22, 687-93	2.2	3
29	Characterization of ammonium chloride derivatives by salt clustering in electrospray mass spectrometry. <i>Rapid Communications in Mass Spectrometry</i> , 2003 , 17, 2471-4	2.2	3
28	Storing the portrait of Antoine de Lavoisier in a single macromolecule. <i>Comptes Rendus Chimie</i> , 2021 , 24, 69-76	2.7	3

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