Laurence Charles

List of Publications by Year
in descending order

172	4,233	101496	161767
papers	citations	36 h-index	54 g-index

174	174	174	3097
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	Design and synthesis of digitally encoded polymers that can be decoded and erased. Nature Communications, 2015, 6, 7237.	5.8	260
2	Synthesis of Non-Natural Sequence-Encoded Polymers Using Phosphoramidite Chemistry. Journal of the American Chemical Society, 2015, 137, 5629-5635.	6.6	180
3	Synthesis of Monodisperse Sequence-Coded Polymers with Chain Lengths above DP100. ACS Macro Letters, 2015, 4, 1077-1080.	2.3	141
4	Chemoselective Synthesis of Uniform Sequence-Coded Polyurethanes and Their Use as Molecular Tags. CheM, 2016, 1, 114-126.	5.8	108
5	Orthogonal Synthesis of â€œEasy-to-Readâ€•Information-Containing Polymers Using Phosphoramidite and Radical Coupling Steps. Journal of the American Chemical Society, 2016, 138, 9417-9420.	6.6	104
6	Mass spectrometry sequencing of long digital polymers facilitated by programmed inter-byte fragmentation. Nature Communications, 2017, 8, 967.	5.8	96
7	Comprehensive Synthesis of Monohydroxyâ€“Cucurbit[n]urils (n = 5, 6, 7, 8): High Purity and High Conversions. Journal of the American Chemical Society, 2015, 137, 10238-10245.	6.6	95
8	Electrospray Ion Chromatographyâ^'Tandem Mass Spectrometry of Oxyhalides at Sub-ppb Levels. Analytical Chemistry, 1998, 70, 353-359.	3.2	68
9	Coding in 2D: Using Intentional Dispersity to Enhance the Information Capacity of Sequenceâ€Coded Polymer Barcodes. Angewandte Chemie - International Edition, 2016, 55, 10722-10725.	7.2	67
10	Stereoselective Syntheses, Structures, and Properties of Extremely Distorted Chiral Nanographenes Embedding Hextuple Helicenes. Angewandte Chemie - International Edition, 2020, 59, 3264-3271.	7.2	67
11	Electrospray Ion Chromatographyâ^'Tandem Mass Spectrometry of Bromate at Sub-ppb Levels in Water. Analytical Chemistry, 1996, 68, 2554-2558.	3.2	65
12	MS/MS Sequencing of Digitally Encoded Poly(alkoxyamine amide)s. Macromolecules, 2015, 48, 4319-4328.	2.2	62
13	MALDI of synthetic polymers with labile endâ€groups. Mass Spectrometry Reviews, 2014, 33, 523-543.	2.8	60
14	A Fluorinated Bolaâ€Amphiphilic Dendrimer for Onâ€Demand Delivery of siRNA, via Specific Response to Reactive Oxygen Species. Advanced Functional Materials, 2016, 26, 8594-8603.	7.8	56
15	Identification-Tagging of Methacrylate-Based Intraocular Implants Using Sequence Defined Polyurethane Barcodes. Advanced Functional Materials, 2017, 27, 1604595.	7.8	53
16	Photoreactivity of the sunscreen butylmethoxydibenzoylmethane (DBM) under various experimental conditions. Journal of Photochemistry and Photobiology A: Chemistry, 2008, 196, 106-112.	2.0	51
17	Photo-editable macromolecular information. Nature Communications, 2019, 10, 3774.	5.8	51
18	Preparation of Informationâ€Containing Macromolecules by Ligation of Dyadâ€Encoded Oligomers. Chemistry - A European Journal, 2015, 21, 11961-11965.	1.7	50

#	Article	IF	Citations
19	MS/MS Digital Readout: Analysis of Binary Information Encoded in the Monomer Sequences of Poly(triazole amide)s. Analytical Chemistry, 2016, 88, 3715-3722.	3.2	50
20	A Simple Postâ€Polymerization Modification Method for Controlling Sideâ€Chain Information in Digital Polymers. Angewandte Chemie - International Edition, 2017, 56, 7297-7301.	7.2	50
21	Abiotic Sequenceâ€Coded Oligomers as Efficient Inâ€...Vivo Taggants for the Identification of Implanted Materials. Angewandte Chemie - International Edition, 2018, 57, 10574-10578.	7.2	48
22	Temporary Intramolecular Generation of Pyridine Carbenes in Metalâ€Free Threeâ€Component Cï£¿H Bond Functionalisation/Arylâ€Transfer Reactions. Chemistry - A European Journal, 2013, 19, 17578-17583.	1.7	46
23	Tandem mass spectrometry of doubly charged poly(ethylene oxide) oligomers produced by electrospray ionization. International Journal of Mass Spectrometry, 2008, 272, 1-11.	0.7	45
24	CO₂ Binding by Dynamic Combinatorial Chemistry: An Environmental Selection. Journal of the American Chemical Society, 2010, 132, 3582-3593.	6.6	45
25	Convergent synthesis of digitally-encoded poly(alkoxyamine amide)s. Chemical Communications, 2015, 51, 15677-15680.	2.2	44
26	Cleavable Binary Dyads: Simplifying Data Extraction and Increasing Storage Density in Digital Polymers. Angewandte Chemie - International Edition, 2018, 57, 6266-6269.	7.2	44
27	Generation and Dissociation Pathways of Singly and Doubly Protonated Bisguanidines in the Gas Phase. Journal of Physical Chemistry A, 2008, 112, 12097-12103.	1.1	43
28	MS-DECODER: Milliseconds Sequencing of Coded Polymers. Macromolecules, 2017, 50, 8290-8296.	2.2	43
29	2D Sequenceâ€Coded Oligourethane Barcodes for Plastic Materials Labeling. Macromolecular Rapid Communications, 2017, 38, 1700426.	2.0	43
30	Microstructural study of a nitroxide-mediated poly(ethylene oxide)/polystyrene block copolymer (PEO-b-PS) by electrospray tandem mass spectrometry. Journal of the American Society for Mass Spectrometry, 2008, 19, 1163-1175.	1.2	42
31	SG1-Functionalized Peptides as Precursors for Polymerâˆ'Peptide Conjugates: A Straightforward Approach. Macromolecules, 2010, 43, 4864-4870.	2.2	40
32	Influence of internal standard charge state on the accuracy of mass measurements in orthogonal acceleration timeâ€ofâ€flight mass spectrometers. Rapid Communications in Mass Spectrometry, 2008, 22, 151-155.	0.7	39
33	High-Capacity Digital Polymers: Storing Images in Single Molecules. Macromolecules, 2020, 53, 4022-4029.	2.2	39
34	Onâ€line coupling of liquid chromatography at critical conditions with electrospray ionization tandem mass spectrometry for the characterization of a nitroxideâ€mediated poly(ethylene oxide)/polystyrene block copolymer. Rapid Communications in Mass Spectrometry, 2008, 22, 3767-3775.	0.7	38
35	Scope and limitations of the nitroxide-mediated radical ring-opening polymerization of cyclic ketene acetals. Polymer Chemistry, 2013, 4, 4776.	1.9	38
36	Direct Analysis of Semivolatile Organic Compounds in Air by Atmospheric Pressure Chemical Ionization Mass Spectrometry. Analytical Chemistry, 2001, 73, 5061-5065.	3.2	36

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37	Role of the Adducted Cation in the Release of Nitroxide End Group of Controlled Polymer in Mass Spectrometry. Macromolecules, 2009, 42, 1849-1859.	2.2	36
38	Heterogeneous modification of chitosan via nitroxide-mediated polymerization. Polymer Chemistry, 2013, 4, 322-328.	1.9	36
39	MS/MS-Assisted Design of Sequence-Controlled Synthetic Polymers for Improved Reading of Encoded Information. Journal of the American Society for Mass Spectrometry, 2017, 28, 1149-1159.	1.2	36
40	Analysis of oxyhalides in water by ion chromatographyâ€“ionspray mass spectrometry. Journal of Chromatography A, 1998, 804, 105-111.	1.8	34
41	Tandem Mass Spectrometry of Trimethylsilyl-Terminated Poly(Dimethylsiloxane) Ammonium Adducts Generated by Electrospray Ionization. Journal of the American Society for Mass Spectrometry, 2011, 22, 649-658.	1.2	34
42	Improved compositional analysis of block copolymers using Diffusion Ordered NMR Spectroscopy. Analytica Chimica Acta, 2009, 654, 45-48.	2.6	33
43	Î±-Phenyl-N-tert-butylnitrone-Type Derivatives Bound to Î²-Cyclodextrins: Syntheses, Thermokinetics of Self-Inclusion and Application to Superoxide Spin-Trapping. Chemistry - A European Journal, 2007, 13, 9344-9354.	1.7	32
44	Use of Pulsed Gradient Spinâ€'Echo NMR as a Tool in MALDI Method Development for Polymer Molecular Weight Determination. Analytical Chemistry, 2006, 78, 2758-2764.	3.2	31
45	Molecular Weight Determination of Block Copolymers by Pulsed Gradient Spin Echo NMR. Analytical Chemistry, 2009, 81, 8054-8060.	3.2	31
46	Propagation of structural deviations of poly(amidoamine) fan-shape dendrimers (generations 0â€“3) characterized by MALDI and electrospray mass spectrometry. International Journal of Mass Spectrometry, 2007, 266, 62-75.	0.7	30
47	Synthesis of polystyrene-grafted cellulose acetate copolymers via nitroxide-mediated polymerization. Polymer Chemistry, 2015, 6, 5244-5253.	1.9	30
48	External interface for trap-and-release membrane introduction mass spectrometry applied to the detection of inorganic chloramines and chlorobenzenes in water. Rapid Communications in Mass Spectrometry, 2001, 15, 2290-2295.	0.7	29
49	Straightforward and Controlled Shape Access to Efficient Macrocyclic Imidazolylboronium Anion Receptors. Chemistry - A European Journal, 2016, 22, 8937-8942.	1.7	29
50	Controlling the structure of sequenceâ€defined poly(phosphodiester)s for optimal MS/MS reading of digital information. Journal of Mass Spectrometry, 2017, 52, 788-798.	0.7	29
51	Stereoselective Syntheses, Structures, and Properties of Extremely Distorted Chiral Nanographenes Embedding Hextuple Helicenes. Angewandte Chemie, 2020, 132, 3290-3297.	1.6	29
52	Tandem mass spectrometry of poly(methacrylic acid) oligomers produced by negative mode electrospray ionization. Journal of the American Society for Mass Spectrometry, 2009, 20, 25-33.	1.2	28
53	Redox reactions of copper(II) upon electrospray ionization in the presence of acridine ligands with an amide side chain. Journal of Physical Organic Chemistry, 2009, 22, 229-233.	0.9	28
54	Characterization of ethanolysis products of poly(dimethylsiloxane) species by electrospray ionization tandem mass spectrometry. Rapid Communications in Mass Spectrometry, 2012, 26, 2057-2067.	0.7	27

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55	Tandem mass spectrometry sequencing in the negative ion mode to read binary information encoded in sequenceâ€defined poly(alkoxyamine amide)s. Rapid Communications in Mass Spectrometry, 2016, 30, 22-28.	0.7	27
56	A well-defined block copolymer synthesis via living cationic polymerization and nitroxide-mediated polymerization using carboxylic acid-based alkoxyamines as a dual initiator. Polymer Chemistry, 2016, 7, 1659-1667.	1.9	27
57	Synthesis and Spin-Trapping Behavior of 5-ChEPMPO, a Cholesteryl Ester Analogue of the Spin Trap DEPMPO. Journal of Organic Chemistry, 2005, 70, 10426-10433.	1.7	26
58	Efficient Protocol for the Synthesis of â€œN-Codedâ€•Oligo- and Poly(N-Substituted) Tj ETQq0 0 0 rgBT /Overlock 10 Tf 50	2.3	26
59	Design of Abiological Digital Poly(phosphodiester)s. Accounts of Chemical Research, 2021, 54, 1791-1800.	7.6	25
60	Tuning block copolymer structural information by adjusting salt concentration in liquid chromatography at critical conditions coupled with electrospray tandem mass spectrometry. Rapid Communications in Mass Spectrometry, 2009, 23, 1476-1482.	0.7	24
61	Distinction and quantitation of sugar isomers in ternary mixtures using the kinetic method. Journal of the American Society for Mass Spectrometry, 2010, 21, 60-67.	1.2	24
62	High surface area membrane introduction mass spectrometry for analysis of volatile and semi-volatile organic compounds in air. Rapid Communications in Mass Spectrometry, 2001, 15, 1520-1524.	0.7	23
63	Flow injection of the lock mass standard for accurate mass measurement in electrospray ionization time-of-flight mass spectrometry coupled with liquid chromatography. Rapid Communications in Mass Spectrometry, 2003, 17, 1383-1388.	0.7	23
64	Positive mode electrospray tandem mass spectrometry of poly(methacrylic acid) oligomers. Rapid Communications in Mass Spectrometry, 2009, 23, 1557-1562.	0.7	23
65	Determination of block size in poly(ethylene oxide)â€bâ€polystyrene block copolymers by matrixâ€assisted laser desorption/ionization timeâ€ofâ€flight mass spectrometry. Journal of Polymer Science Part A, 2009, 47, 3380-3390.	2.5	23
66	Triangular Regulation of Cucurbit[8]uril 1:1 Complexes. Journal of the American Chemical Society, 2019, 141, 5897-5907.	6.6	23
67	Tandem mass spectrometry of electrosprayed polyhedral oligomeric silsesquioxane compounds with different substituents. Rapid Communications in Mass Spectrometry, 2012, 26, 765-774.	0.7	22
68	A Cucurbit[8]uril 2:2 Complex with a Negative pK_a Shift. Chemistry - A European Journal, 2019, 25, 12552-12559.	1.7	22
69	Damage and Repair in Informational Poly(Nâ€substituted urethane)s. Angewandte Chemie - International Edition, 2020, 59, 20390-20393.	7.2	22
70	Cooperative binding and self-assembling behavior of cationic low molecular-weight dendrons with RNA molecules. Organic and Biomolecular Chemistry, 2006, 4, 581.	1.5	20
71	Characterisation of free radical spin adducts of the cyclic Î²-phosphorylated nitrone DEPMPO using tandem mass spectrometry. International Journal of Mass Spectrometry, 2006, 252, 47-53.	0.7	20
72	Analytical strategy for the molecular weight determination of random copolymers of poly(methyl) Tj ETQq0 0 0 rgBT /Overlock 10 Tf 50 2010, 21, 1075-1085.	1.2	20

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73	Synthesis of oligoarylacetylenes with defined conjugated sequences using tailor-made soluble polymer supports. Chemical Communications, 2017, 53, 8312-8315.	2.2	20
74	Revealing Data Encrypted in Sequence-Controlled Poly(Alkoxyamine Phosphodiester)s by Combining Ion Mobility with Tandem Mass Spectrometry. Analytical Chemistry, 2019, 91, 7266-7272.	3.2	20
75	Conformational sensitivity of conjugated poly(ethylene oxide)-poly(amidoamine) molecules to cations adducted upon electrospray ionization â€“ A mass spectrometry, ion mobility and molecular modeling study. Analytica Chimica Acta, 2014, 808, 163-174.	2.6	18
76	Coding in 2D: Using Intentional Dispersity to Enhance the Information Capacity of Sequenceâ€Coded Polymer Barcodes. Angewandte Chemie, 2016, 128, 10880-10883.	1.6	18
77	Eine einfache Methode der nachtrÃglichen Modifizierung zur Kontrolle der Seitenketteninformation digitaler Polymere. Angewandte Chemie, 2017, 129, 7403-7407.	1.6	18
78	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, 1077-1084.	1.2	17
79	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.	0.7	17
80	Using solventâ€free sample preparation to promote protonation of poly(ethylene oxide)s with labile endâ€groups in matrixâ€assisted laser desorption/ionisation. Rapid Communications in Mass Spectrometry, 2008, 22, 3776-3782.	0.7	17
81	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.	1.5	17
82	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.	0.7	17
83	Structural characterization of a poly(methacrylic acid)â€“poly(methyl methacrylate) copolymer by nuclear magnetic resonance and mass spectrometry. Analytica Chimica Acta, 2009, 654, 49-58.	2.6	16
84	Synthesis of Poly(amino)ester Dendrimers via Active Cyanomethyl Ester Intermediates. Journal of Organic Chemistry, 2010, 75, 8685-8688.	1.7	16
85	Coupling of sizeâ€exclusion chromatography with electrospray ionization chargeâ€detection mass spectrometry for the characterization of synthetic polymers of ultraâ€high molar mass. Rapid Communications in Mass Spectrometry, 2016, 30, 132-136.	0.7	16
86	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.	1.6	15
87	Dissociation characteristics of Î±,ï‰-dihydride poly(dimethylsiloxane) ammonium adducts generated by electrospray ionization. International Journal of Mass Spectrometry, 2011, 306, 70-76.	0.7	15
88	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.	0.7	15
89	Collisionâ€induced dissociation of synthetic polymers containing hydride groups: the case of poly(methylhydrosiloxane) homopolymers and poly(methylhydrosiloxane)â€coâ€(dimethylsiloxane) copolymers. Rapid Communications in Mass Spectrometry, 2013, 27, 88-96.	0.7	15
90	Triple Stack of a Viologen Derivative in a CB[10] Pair. Organic Letters, 2021, 23, 5283-5287.	2.4	15

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91	Solid state nuclear magnetic resonance as a tool to explore solvent-free MALDI samples. Journal of the American Society for Mass Spectrometry, 2009, 20, 1906-1911.	1.2	14
92	Cleavable Binary Dyads: Simplifying Data Extraction and Increasing Storage Density in Digital Polymers. Angewandte Chemie, 2018, 130, 6374-6377.	1.6	14
93	Precise Alkoxyamine Design to Enable Automated Tandem Mass Spectrometry Sequencing of Digital Poly(phosphodiester)s. Angewandte Chemie - International Edition, 2021, 60, 917-926.	7.2	14
94	Desorption Electrospray Ionization (DESI) of Digital Polymers: Direct Tandem Mass Spectrometry Decoding and Imaging from Materials Surfaces. Advanced Materials Technologies, 2021, 6, 2001088.	3.0	14
95	Methylation of acidic moieties in poly(methyl methacrylateâ€coâ€methacrylic acid) copolymers for endâ€group characterization by tandem mass spectrometry. Rapid Communications in Mass Spectrometry, 2010, 24, 1941-1947.	0.7	13
96	Effects of the herbicide atrazine on the activated sludge process: microbiology and functional views. Chemosphere, 1996, 33, 479-494.	4.2	12
97	Nucleophile addition of reduced glutathione on 2-methyl-2-nitroso compound: A combined electron paramagnetic resonance spectroscopy and electrospray tandem mass spectrometry study. Journal of the American Society for Mass Spectrometry, 2009, 20, 2013-2020.	1.2	12
98	A study of the cesium cation bonding to carboxylate anions by the kinetic method and quantum chemical calculations. Journal of Mass Spectrometry, 2010, 45, 520-527.	0.7	12
99	Endâ€group characterization of poly(styrene sulfonate sodium salt) by activated electron photoâ€detachment dissociation. Rapid Communications in Mass Spectrometry, 2011, 25, 3259-3266.	0.7	12
100	Photocontrolled Synthesis of Abiotic Sequenceâ€Defined Oligo(Phosphodiester)s. Macromolecular Rapid Communications, 2017, 38, 1700651.	2.0	12
101	Abiotic Sequenceâ€Coded Oligomers as Efficient Inâ€…Vivo Taggants for the Identification of Implanted Materials. Angewandte Chemie, 2018, 130, 10734-10738.	1.6	12
102	Precisely Defined Aptamer-b-Poly(phosphodiester) Conjugates Prepared by Phosphoramidite Polymer Chemistry. ACS Macro Letters, 2021, 10, 481-485.	2.3	12
103	Indirect Tertiary Alcohol Enantiocontrol by Acylative Organocatalytic Kinetic Resolution. Organic Letters, 2021, 23, 4332-4336.	2.4	12
104	Conversion of dehydroepiandrosterone sulfate at physiological plasma concentration into estrogens in MCF-7 cells. Steroids, 2002, 67, 1057-1064.	0.8	11
105	Analysis of amitrole by normal-phase liquid chromatography and tandem mass spectrometry using a sheath liquid electrospray interface. Rapid Communications in Mass Spectrometry, 2006, 20, 892-896.	0.7	11
106	Successful MALDIâ€MS Analysis of Synthetic Polymers with Labile Endâ€Groups: The Case of Nitroxideâ€Mediated Polymerization Using the MAMAâ€SG1 Alkoxyamine. Chemistry - A European Journal, 2012, 18, 7916-7924.	1.7	11
107	Ion mobility spectrometry â€“ Mass spectrometry coupling for synthetic polymers. Rapid Communications in Mass Spectrometry, 2020, 34, e8624.	0.7	11
108	Detection and identification of various carbon-centred free radicals using N-arylketonitrones: a spin trapping/EPR/MS study. New Journal of Chemistry, 2008, 32, 680-688.	1.4	10

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109	Structural characterization of poly(amino)ester dendrimers and related impurities by electrospray tandem mass spectrometry. Rapid Communications in Mass Spectrometry, 2010, 24, 2207-2216.	0.7	10
110	End-Group Cleavage in MALDI of ATRP-Made Polystyrene: A Silver-Catalyzed Reaction during Sample Preparation. Analytical Chemistry, 2013, 85, 5454-5462.	3.2	10
111	Insights in the Architecture of Siliconâ€Based Plasma Polymers Using Partial Network Ethanolysis Combined with Electrospray Tandem Mass Spectrometry. Plasma Processes and Polymers, 2013, 10, 271-284.	1.6	10
112	Structural characterization of new defective molecules in poly(amidoamide) dendrimers by combining mass spectrometry and nuclear magnetic resonance. Analytica Chimica Acta, 2015, 853, 451-459.	2.6	10
113	Storing the portrait of Antoine de Lavoisier in a single macromolecule. Comptes Rendus Chimie, 2021, 24, 69-76.	0.2	10
114	Covalent Attachment and Detachment by Reactive DESI of Sequenceâ€Coded Polymer Taggants. Macromolecular Rapid Communications, 2022, 43, .	2.0	10
115	Isomeric Distinction of Small Oligosaccharides: A Bottom-Up Approach Using the Kinetic Method. Journal of the American Society for Mass Spectrometry, 2011, 22, 1252-9.	1.2	9
116	Use of Doubly Charged Precursors to Validate Dissociation Mechanisms of Singly Charged Poly(Dimethylsiloxane) Oligomers. Journal of the American Society for Mass Spectrometry, 2013, 24, 1123-1129.	1.2	9
117	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. International Journal of Mass Spectrometry, 2013, 354-355, 235-241.	0.7	9
118	Structural characterization of a poly(methacrylic acid)/poly(methylmethacrylate) copolymer by activated electron photo-detachment dissociation. International Journal of Mass Spectrometry, 2013, 333, 27-33.	0.7	9
119	Optimal ATRPâ€Made Soluble Polymer Supports for Phosphoramidite Chemistry. Chemistry - A European Journal, 2016, 22, 3462-3469.	1.7	9
120	Sequence-coded ATRP macroinitiators. Polymer Chemistry, 2017, 8, 4988-4991.	1.9	9
121	Mass Spectrometry-Based Analytical Strategy for Comprehensive Molecular Characterization of Biodegradable Poly(lactic-co-glycolic Acid) Copolymers. Journal of the American Society for Mass Spectrometry, 2020, 31, 1554-1562.	1.2	9
122	Measuring Gas-Phase Basicities Relative to the Lithium Cation by Mass Spectrometry: A Physical Chemistry Experiment. Journal of Chemical Education, 2012, 89, 1476-1478.	1.1	8
123	Efficient Structural Characterization of Poly(Methacrylic Acid) by Activated-Electron Photodetachment Dissociation. Journal of the American Society for Mass Spectrometry, 2012, 23, 7-11.	1.2	8
124	Generation of doubly charged species from small synthetic polymers in a high pressure MALDI source. International Journal of Mass Spectrometry, 2017, 416, 46-52.	0.7	8
125	Selectivity of electrospray response in small polymer analysis by mass spectrometry. Rapid Communications in Mass Spectrometry, 2006, 20, 3188-3192.	0.7	7
126	Universal Soluble Polymer Supports with Precisely Controlled Loading Capacity for Sequenceâ€Defined Oligomer Synthesis. Journal of Polymer Science Part A, 2019, 57, 403-410.	2.5	7

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127	Synthesis and sequencing of informational poly(amino phosphodiester)s. Polymer Chemistry, 2021, 12, 5279-5282.	1.9	7
128	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. Chemical Communications, 2010, 46, 3675.	2.2	6
129	Synthesis of Tris-hydroxymethyl-Based Nitrone Derivatives with Highly Reactive Nitronyl Carbon. Journal of Organic Chemistry, 2012, 77, 938-948.	1.7	6
130	Stability of SG1 nitroxide towards unprotected sugar and lithium salts: a preamble to cellulose modification by nitroxide-mediated graft polymerization. Beilstein Journal of Organic Chemistry, 2013, 9, 1589-1600.	1.3	6
131	Successful MALDI mass spectrometry of poly(4-vinylpyridine) using a solvent-free sample preparation. International Journal of Mass Spectrometry, 2015, 376, 90-96.	0.7	6
132	Mass spectrometry of nitroxide-terminated poly(4-vinylpyridine): A case of unwanted reactive MALDI. International Journal of Mass Spectrometry, 2016, 405, 50-58.	0.7	6
133	Structural characterization of polymethoxymethylsiloxanes by electrospray ionization tandem mass spectrometry. International Journal of Mass Spectrometry, 2016, 402, 42-48.	0.7	6
134	Optimal conditions for tandem mass spectrometric sequencing of informationâ€containing nitrogenâ€substituted polyurethanes. Rapid Communications in Mass Spectrometry, 2020, 34, e8815.	0.7	6
135	Characterization of ammonium chloride derivatives by salt clustering in electrospray mass spectrometry. Rapid Communications in Mass Spectrometry, 2003, 17, 2471-2474.	0.7	5
136	Chemometric Approach to Evaluate the Parameters Affecting Electrospray: Application of a Statistical Design of Experiments for the Study of Arginine Ionization. European Journal of Mass Spectrometry, 2005, 11, 361-370.	0.5	5
137	Differentiation of heterocyclic regioisomers: a combined tandem mass spectrometry and computational study of Nâ€acridinâ€4â€ylbenzylamide and Nâ€acridinâ€2â€ylâ€benzylamide. Rapid Communications in Mass Spectrometry, 2008, 22, 687-693.	0.7	5
138	Effect of salt in the mobile phase on the critical conditions of poly(ethylene glycol) in liquid chromatography-mass spectrometry coupling. Analytical Methods, 2009, 1, 128.	1.3	5
139	Combining EPR and ESI-MS/MS to study the reactivity of alkylthiols and cysteine towards 2-methyl-2-nitrosopropane (MNP). Analytical Methods, 2010, 2, 694.	1.3	5
140	Towards the rationalization of the MALDI process: a combined mass spectrometry/solid-state NMR approach. Analytical Methods, 2012, 4, 3118.	1.3	5
141	Catalytic Effect of Cesium Cation Adduct Formation on the Decarboxylation of Carboxylate Ions in the Gas Phase. Chemistry - A European Journal, 2014, 20, 815-823.	1.7	5
142	Elucidation of a side reaction occurring during nitroxide-mediated polymerization of cyclic ketene acetals by tandem mass spectrometric end-group analysis of aliphatic polyesters. Rapid Communications in Mass Spectrometry, 2015, 29, 2302-2308.	0.7	5
143	Orthogonal Synthesis of Xeno Nucleic Acids. Chemistry - A European Journal, 2016, 22, 17945-17948.	1.7	5
144	Convenient Graphical Visualization of Messages Encoded in Sequenceâ€Defined Synthetic Polymers Using Kendrick Mass Defect Analysis of their MS/MS Data. Macromolecular Chemistry and Physics, 2018, 219, 1800173.	1.1	5

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145	Promoting carboxylate salts in the ESI source to simplify positive mode MS/MS sequencing of acid-terminated encoded polyurethanes. International Journal of Mass Spectrometry, 2020, 448, 116271.	0.7	5
146	Selective Bond Cleavage in Informational Poly(Alkoxyamine Phosphodiester)s. Macromolecular Rapid Communications, 2020, 41, e2000215.	2.0	5
147	Electrospray tandem mass spectrometry of poly(amino)ester dendrimers: Dissociation rules and structural characterization of defective molecules. International Journal of Mass Spectrometry, 2011, 308, 56-64.	0.7	4
148	Fragmentation pathways of methacrylic homopolymers with labile trialkylsilyl ester side-groupsâ€"A mass spectrometric investigation of the RAFT process. International Journal of Mass Spectrometry, 2012, 311, 31-39.	0.7	4
149	Reactions of nitric oxide and nitrogen dioxide with coenzyme Q: involvement of the isoprenic chain. Organic and Biomolecular Chemistry, 2013, 11, 1399.	1.5	4
150	Adduction of ammonium to polylactides to modify their dissociation behavior in collisionâ€induced dissociation. Rapid Communications in Mass Spectrometry, 2018, 32, 423-430.	0.7	4
151	Damage and Repair in Informational Poly(N â€substituted urethane)s. Angewandte Chemie, 2020, 132, 20570-20573.	1.6	4
152	Reactive Desorption Electrospray Ionization Mass Spectrometry To Determine Intrinsic Degradability of Poly(lactic-co-glycolic acid) Chains. Analytical Chemistry, 2021, 93, 12041-12048.	3.2	4
153	Multidimensional mass spectrometry to characterize degradation products generated during MALDI of polystyrenes prepared by controlled radical polymerization techniques. Journal of Polymer Science Part A, 2016, 54, 3388-3397.	2.5	3
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