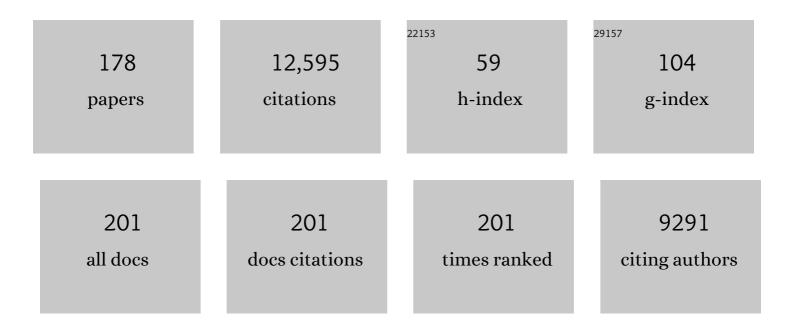
List of Publications by Year in descending order

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#	Article	IF	CITATIONS
1	Strategies and challenges for the next generation of antibody–drug conjugates. Nature Reviews Drug Discovery, 2017, 16, 315-337.	46.4	1,527
2	Strategies and challenges for the next generation of therapeutic antibodies. Nature Reviews Immunology, 2010, 10, 345-352.	22.7	742
3	Characterization of Therapeutic Antibodies and Related Products. Analytical Chemistry, 2013, 85, 715-736.	6.5	509
4	Trends in Glycosylation, Glycoanalysis and Glycoengineering of Therapeutic Antibodies and Fc-Fusion Proteins. Current Pharmaceutical Biotechnology, 2008, 9, 482-501.	1.6	228
5	Theory and practice of size exclusion chromatography for the analysis of protein aggregates. Journal of Pharmaceutical and Biomedical Analysis, 2014, 101, 161-173.	2.8	226
6	Biosimilar, Biobetter, and Next Generation Antibody Characterization by Mass Spectrometry. Analytical Chemistry, 2012, 84, 4637-4646.	6.5	225
7	ldentification and characterization of asparagine deamidation in the light chain CDR1 of a humanized lgG1 antibody. Analytical Biochemistry, 2009, 392, 145-154.	2.4	222
8	A recombinant humanized antiâ€insulinâ€like growth factor receptor type I antibody (h7C10) enhances the antitumor activity of vinorelbine and antiâ€epidermal growth factor receptor therapy against human cancer xenografts. International Journal of Cancer, 2005, 113, 316-328.	5.1	207
9	Antibody–Drug Conjugates: The Last Decade. Pharmaceuticals, 2020, 13, 245.	3.8	207
10	Marketing approval of mogamulizumab. MAbs, 2012, 4, 419-425.	5.2	193
11	Ion-exchange chromatography for the characterization of biopharmaceuticals. Journal of Pharmaceutical and Biomedical Analysis, 2015, 113, 43-55.	2.8	186
12	Structure, heterogeneity and developability assessment of therapeutic antibodies. MAbs, 2019, 11, 239-264.	5.2	186
13	Forced degradation of recombinant monoclonal antibodies: A practical guide. MAbs, 2017, 9, 1217-1230.	5.2	163
14	Correct primary structure assessment and extensive glyco-profiling of cetuximab by a combination of intact, middle-up, middle-down and bottom-up ESI and MALDI mass spectrometry techniques. MAbs, 2013, 5, 699-710.	5.2	159
15	Therapeutic Fc-fusion proteins and peptides as successful alternatives to antibodies. MAbs, 2011, 3, 415-416.	5.2	156
16	Innovative Native MS Methodologies for Antibody Drug Conjugate Characterization: High Resolution Native MS and IM-MS for Average DAR and DAR Distribution Assessment. Analytical Chemistry, 2014, 86, 10674-10683.	6.5	147
17	Middle-Down Analysis of Monoclonal Antibodies with Electron Transfer Dissociation Orbitrap Fourier Transform Mass Spectrometry. Analytical Chemistry, 2014, 86, 3005-3012.	6.5	147
18	Determination of isoelectric points and relative charge variants of 23 therapeutic monoclonal antibodies. Journal of Chromatography B: Analytical Technologies in the Biomedical and Life Sciences, 2017, 1065-1066, 119-128.	2.3	135

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19	Method development for the separation of monoclonal antibody charge variants in cation exchange chromatography, Part I: Salt gradient approach. Journal of Pharmaceutical and Biomedical Analysis, 2015, 102, 33-44.	2.8	133
20	Antibody-drug conjugates. MAbs, 2014, 6, 15-17.	5.2	131
21	Characterization by liquid chromatography combined with mass spectrometry of monoclonal anti-IGF-1 receptor antibodies produced in CHO and NSO cells. Journal of Chromatography B: Analytical Technologies in the Biomedical and Life Sciences, 2005, 819, 203-218.	2.3	120
22	Approval of the first biosimilar antibodies in Europe. MAbs, 2013, 5, 621-623.	5.2	114
23	Native mass spectrometry and ion mobility characterization of trastuzumab emtansine, a lysineâ€linked antibody drug conjugate. Protein Science, 2015, 24, 1210-1223.	7.6	113
24	Method development for the separation of monoclonal antibody charge variants in cation exchange chromatography, Part II: pH gradient approach. Journal of Pharmaceutical and Biomedical Analysis, 2015, 102, 282-289.	2.8	113
25	Safety and Immunogenicity of a Novel Recombinant Subunit Respiratory Syncytial Virus Vaccine (BBG2Na) in Healthy Young Adults. Journal of Infectious Diseases, 2001, 184, 1456-1460.	4.0	111
26	Cuttingâ€edge mass spectrometry characterization of originator, biosimilar and biobetter antibodies. Journal of Mass Spectrometry, 2015, 50, 285-297.	1.6	109
27	Analytical characterization of biosimilar antibodies and Fc-fusion proteins. TrAC - Trends in Analytical Chemistry, 2013, 48, 81-95.	11.4	104
28	Antibody-drug conjugate model fast characterization by LC-MS following IdeS proteolytic digestion. MAbs, 2014, 6, 173-184.	5.2	104
29	Hydrophobic interaction chromatography for the characterization of monoclonal antibodies and related products. Journal of Pharmaceutical and Biomedical Analysis, 2016, 130, 3-18.	2.8	104
30	A new reagent for the removal of the 4-methoxybenzyl ether: application to the synthesis of unusual macrocyclic and bolaform phosphatidylcholines Journal of Organic Chemistry, 1992, 57, 1777-1783.	3.2	97
31	Cutting-edge mass spectrometry methods for the multi-level structural characterization of antibody-drug conjugates. Expert Review of Proteomics, 2016, 13, 157-183.	3.0	91
32	Direct Identification of Rituximab Main Isoforms and Subunit Analysis by Online Selective Comprehensive Two-Dimensional Liquid Chromatography–Mass Spectrometry. Analytical Chemistry, 2015, 87, 8307-8315.	6.5	90
33	NIST Interlaboratory Study on Glycosylation Analysis of Monoclonal Antibodies: Comparison of Results from Diverse Analytical Methods. Molecular and Cellular Proteomics, 2020, 19, 11-30.	3.8	87
34	Rapid and improved characterization of therapeutic antibodies and antibody related products using IdeS digestion and subunit analysis. Analyst, The, 2016, 141, 3114-3125.	3.5	85
35	Biosimilar, biobetter and next generation therapeutic antibodies. MAbs, 2011, 3, 107-110.	5.2	84
36	The way forward, enhanced characterization of therapeutic antibody glycosylation: Comparison of three level mass spectrometry-based strategies. Journal of Chromatography B: Analytical Technologies in the Biomedical and Life Sciences, 2008, 872, 23-37.	2.3	81

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37	Rapid and multi-level characterization of trastuzumab using sheathless capillary electrophoresis-tandem mass spectrometry. MAbs, 2013, 5, 479-490.	5.2	80
38	Full Antibody Primary Structure and Microvariant Characterization in a Single Injection Using Transient Isotachophoresis and Sheathless Capillary Electrophoresis–Tandem Mass Spectrometry. Analytical Chemistry, 2014, 86, 9074-9081.	6.5	80
39	Potential of hydrophilic interaction chromatography for the analytical characterization of protein biopharmaceuticals. Journal of Chromatography A, 2016, 1448, 81-92.	3.7	80
40	Extending Mass Spectrometry Contribution to Therapeutic Monoclonal Antibody Lead Optimization: Characterization of Immune Complexes Using Noncovalent ESI-MS. Analytical Chemistry, 2009, 81, 6364-6373.	6.5	79
41	Development of Comprehensive Online Two-Dimensional Liquid Chromatography/Mass Spectrometry Using Hydrophilic Interaction and Reversed-Phase Separations for Rapid and Deep Profiling of Therapeutic Antibodies. Analytical Chemistry, 2018, 90, 5923-5929.	6.5	78
42	Therapeutic Fcâ€fusion proteins: Current analytical strategies. Journal of Separation Science, 2021, 44, 35-62.	2.5	78
43	The next generation of antibody-drug conjugates comes of age. Discovery Medicine, 2010, 10, 329-39.	0.5	78
44	Hydrophilic Interaction Chromatography Hyphenated with Mass Spectrometry: A Powerful Analytical Tool for the Comparison of Originator and Biosimilar Therapeutic Monoclonal Antibodies at the Middle-up Level of Analysis. Analytical Chemistry, 2017, 89, 2086-2092.	6.5	77
45	Comparison of originator and biosimilar therapeutic monoclonal antibodies using comprehensive two-dimensional liquid chromatography coupled with time-of-flight mass spectrometry. MAbs, 2016, 8, 1224-1234.	5.2	76
46	Cutting-edge capillary electrophoresis characterization of monoclonal antibodies and related products. Journal of Chromatography B: Analytical Technologies in the Biomedical and Life Sciences, 2016, 1032, 61-78.	2.3	76
47	An Online Four-Dimensional HIC×SEC-IM×MS Methodology for Proof-of-Concept Characterization of Antibody Drug Conjugates. Analytical Chemistry, 2018, 90, 1578-1586.	6.5	75
48	Characterization of 30 therapeutic antibodies and related products by size exclusion chromatography: Feasibility assessment for future mass spectrometry hyphenation. Journal of Chromatography B: Analytical Technologies in the Biomedical and Life Sciences, 2017, 1065-1066, 35-43.	2.3	73
49	Glycoform Separation and Characterization of Cetuximab Variants by Middle-up Off-Line Capillary Zone Electrophoresis-UV/Electrospray Ionization-MS. Analytical Chemistry, 2015, 87, 6240-6250.	6.5	72
50	Macro- and Micro-Heterogeneity of Natural and Recombinant IgG Antibodies. Antibodies, 2019, 8, 18.	2.5	71
51	Structural characterization of antibody drug conjugate by a combination of intact, middle-up and bottom-up techniques using sheathless capillary electrophoresis – Tandem mass spectrometry as nanoESI infusion platform and separation method. Analytica Chimica Acta, 2016, 918, 50-59.	5.4	70
52	Orthogonal liquid chromatography–mass spectrometry methods for the comprehensive characterization of therapeutic glycoproteins, from released glycans to intact protein level. Journal of Chromatography A, 2017, 1498, 128-146.	3.7	70
53	Characterization of therapeutic antibodies and related products by two-dimensional liquid chromatography coupled with UV absorbance and mass spectrometric detection. Journal of Chromatography B: Analytical Technologies in the Biomedical and Life Sciences, 2016, 1032, 51-60.	2.3	69
54	Hyphenation of size exclusion chromatography to native ion mobility mass spectrometry for the analytical characterization of therapeutic antibodies and related products. Journal of Chromatography B: Analytical Technologies in the Biomedical and Life Sciences, 2018, 1086, 176-183.	2.3	69

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55	Interlaboratory Study for Characterizing Monoclonal Antibodies by Top-Down and Middle-Down Mass Spectrometry. Journal of the American Society for Mass Spectrometry, 2020, 31, 1783-1802.	2.8	67
56	Evaluation of size exclusion chromatography columns packed with sub-3 μm particles for the analysis of biopharmaceutical proteins. Journal of Chromatography A, 2017, 1498, 80-89.	3.7	64
57	Analytical comparability study of recombinant monoclonal antibody therapeutics. MAbs, 2018, 10, 513-538.	5.2	63
58	Time Resolved Native Ion-Mobility Mass Spectrometry to Monitor Dynamics of IgG4 Fab Arm Exchange and "Bispecific―Monoclonal Antibody Formation. Analytical Chemistry, 2013, 85, 9785-9792.	6.5	62
59	Glycosylation of biosimilars: Recent advances in analytical characterization and clinical implications. Analytica Chimica Acta, 2019, 1089, 1-18.	5.4	62
60	Absence of Lung Immunopathology Following Respiratory Syncytial Virus (RSV) Challenge in Mice Immunized with a Recombinant RSV G Protein Fragment. Virology, 1999, 258, 128-140.	2.4	61
61	GlycoFi's technology to control the glycosylation of recombinant therapeutic proteins. Expert Opinion on Drug Discovery, 2010, 5, 95-111.	5.0	61
62	Practical method development for the separation of monoclonal antibodies and antibody-drug-conjugate species in hydrophobic interaction chromatography, part 1: optimization of the mobile phase. Journal of Pharmaceutical and Biomedical Analysis, 2016, 118, 393-403.	2.8	61
63	Priming by Microbial Antigens from the Intestinal Flora Determines the Ability of CD4+ T Cells to Rapidly Secrete IL-4 in BALB/c Mice Infected with <i>Leishmania major</i> . Journal of Immunology, 2000, 165, 5637-5645.	0.8	60
64	Identification of Multiple Protective Epitopes (Protectopes) in the Central Conserved Domain of a Prototype Human Respiratory Syncytial Virus G Protein. Journal of Virology, 1999, 73, 5637-5645.	3.4	60
65	Protocols for the analytical characterization of therapeutic monoclonal antibodies. II – Enzymatic and chemical sample preparation. Journal of Chromatography B: Analytical Technologies in the Biomedical and Life Sciences, 2017, 1060, 325-335.	2.3	59
66	Monoclonal antibodies biosimilarity assessment using transient isotachophoresis capillary zone electrophoresis-tandem mass spectrometry. MAbs, 2014, 6, 1464-1473.	5.2	58
67	Characterization of antibody drug conjugate positional isomers at cysteine residues by peptide mapping LC–MS analysis. Journal of Chromatography B: Analytical Technologies in the Biomedical and Life Sciences, 2015, 981-982, 9-13.	2.3	56
68	Full validation of therapeutic antibody sequences by middle-up mass measurements and middle-down protein sequencing. MAbs, 2016, 8, 318-330.	5.2	55
69	Insights from native mass spectrometry approaches for top- and middle- level characterization of site-specific antibody-drug conjugates. MAbs, 2017, 9, 801-811.	5.2	55
70	Current possibilities of liquid chromatography for the characterization of antibody-drug conjugates. Journal of Pharmaceutical and Biomedical Analysis, 2018, 147, 493-505.	2.8	54
71	Analysis of antibody-drug conjugates by comprehensive on-line two-dimensional hydrophobic interaction chromatography x reversed phase liquid chromatography hyphenated to high resolution mass spectrometry. I â ⁻ ' Optimization of separation conditions. Journal of Chromatography B: Analytical Technologies in the Biomedical and Life Sciences. 2016. 1032. 103-111.	2.3	51
72	Native Mass Spectrometry, Ion Mobility, and Collision-Induced Unfolding for Conformational Characterization of IgG4 Monoclonal Antibodies. Analytical Chemistry, 2018, 90, 8865-8872.	6.5	51

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73	Advantages of Extended Bottom-Up Proteomics Using Sap9 for Analysis of Monoclonal Antibodies. Analytical Chemistry, 2014, 86, 9945-9953.	6.5	50
74	Monoclonal antibody N-glycosylation profiling using capillary electrophoresis – Mass spectrometry: Assessment and method validation. Talanta, 2018, 178, 530-537.	5.5	50
75	Insights from capillary electrophoresis approaches for characterization of monoclonal antibodies and antibody drug conjugates in the period 2016–2018. Journal of Chromatography B: Analytical Technologies in the Biomedical and Life Sciences, 2019, 1122-1123, 1-17.	2.3	50
76	A Novel Online Four-Dimensional SEC×SEC-IM×MS Methodology for Characterization of Monoclonal Antibody Size Variants. Analytical Chemistry, 2018, 90, 13929-13937.	6.5	49
77	Insights from native mass spectrometry and ion mobility-mass spectrometry for antibody and antibody-based product characterization. Journal of Chromatography B: Analytical Technologies in the Biomedical and Life Sciences, 2016, 1032, 79-90.	2.3	48
78	Unraveling the mysteries of modern size exclusion chromatography - the way to achieve confident characterization of therapeutic proteins. Journal of Chromatography B: Analytical Technologies in the Biomedical and Life Sciences, 2018, 1092, 368-378.	2.3	48
79	Structural Analysis of Monoclonal Antibodies by Ultrahigh Resolution MALDI In-Source Decay FT-ICR Mass Spectrometry. Analytical Chemistry, 2019, 91, 2079-2085.	6.5	48
80	Cetuximab Fab and Fc N-Glycan Fast Characterization Using IdeS Digestion and Liquid Chromatography Coupled to Electrospray Ionization Mass Spectrometry. Methods in Molecular Biology, 2013, 988, 93-113.	0.9	47
81	Top-down analysis of immunoglobulin G isotypes 1 and 2 with electron transfer dissociation on a high-field Orbitrap mass spectrometer. Journal of Proteomics, 2017, 159, 67-76.	2.4	47
82	Cutting-edge multi-level analytical and structural characterization of antibody-drug conjugates: present and future. Expert Review of Proteomics, 2019, 16, 337-362.	3.0	47
83	Practical method development for the separation of monoclonal antibodies and antibody-drug-conjugate species in hydrophobic interaction chromatoraphy, part 2: Optimization of the phase system. Journal of Pharmaceutical and Biomedical Analysis, 2016, 121, 161-173.	2.8	46
84	Characterization of cetuximab Fc/2 dimers by off-line CZE-MS. Analytica Chimica Acta, 2016, 908, 168-176.	5.4	44
85	Targeting of Nasal Mucosa-Associated Antigen-Presenting Cells In Vivo with an Outer Membrane Protein A Derived from Klebsiella pneumoniae. Infection and Immunity, 2001, 69, 6434-6444.	2.2	42
86	DDA adjuvant induces a mixed Th1/Th2 immune response when associated with BBG2Na, a respiratory syncytial virus potential vaccine. Vaccine, 2002, 20, 2743-2751.	3.8	42
87	Adsorption and recovery issues of recombinant monoclonal antibodies in reversed-phase liquid chromatographyâ€. Journal of Separation Science, 2015, 38, 1-8.	2.5	42
88	Protocols for the analytical characterization of therapeutic monoclonal antibodies. I – Non-denaturing chromatographic techniques. Journal of Chromatography B: Analytical Technologies in the Biomedical and Life Sciences, 2017, 1058, 73-84.	2.3	42
89	The recombinant <i>Klebsiella pneumoniae</i> outer membrane protein OmpA has carrier properties for conjugated antigenic peptides. FEBS Journal, 1998, 255, 446-454.	0.2	41
90	Analysis of monoclonal antibody by a novel CEâ€UV/MALDIâ€MS interface. Electrophoresis, 2014, 35, 2986-2995.	2.4	40

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91	Characterization of an antibody-drug conjugate by hydrophilic interaction chromatography coupled to mass spectrometry. Journal of Chromatography B: Analytical Technologies in the Biomedical and Life Sciences, 2018, 1080, 37-41.	2.3	39
92	Combination of intact, middle-up and bottom-up levels to characterize 7 therapeutic monoclonal antibodies by capillary electrophoresis – Mass spectrometry. Journal of Pharmaceutical and Biomedical Analysis, 2020, 182, 113107.	2.8	39
93	CD4+ T-Cell-Mediated Antiviral Protection of the Upper Respiratory Tract in BALB/c Mice following Parenteral Immunization with a Recombinant Respiratory Syncytial Virus G Protein Fragment. Journal of Virology, 2000, 74, 3455-3463.	3.4	38
94	A sensitive multidimensional method for the detection, characterization, and quantification of trace free drug species in antibody-drug conjugate samples using mass spectral detection. MAbs, 2016, 8, 306-317.	5.2	38
95	Multiplexed Middle-Down Mass Spectrometry as a Method for Revealing Light and Heavy Chain Connectivity in a Monoclonal Antibody. Analytical Chemistry, 2018, 90, 12527-12535.	6.5	38
96	Coupling non-denaturing chromatography to mass spectrometry for the characterization of monoclonal antibodies and related products. Journal of Pharmaceutical and Biomedical Analysis, 2020, 185, 113207.	2.8	38
97	Expression of recombinant proteins in a lipid A mutant of Escherichia coli BL21 with a strongly reduced capacity to induce dendritic cell activation and maturation. Journal of Immunological Methods, 2003, 272, 199-210.	1.4	37
98	Advanced assessment of the physicochemical characteristics of Remicade® and Inflectra® by sensitive LC/MS techniques. MAbs, 2016, 8, 1021-1034.	5.2	36
99	Utility of a high coverage phenyl-bonding and wide-pore superficially porous particle for the analysis of monoclonal antibodies and related products. Journal of Chromatography A, 2018, 1549, 63-76.	3.7	36
100	Systematic evaluation of mobile phase additives for the LC–MS characterization of therapeutic proteins. Talanta, 2015, 136, 60-67.	5.5	34
101	Characterization of cation exchanger stationary phases applied for the separations of therapeutic monoclonal antibodies. Journal of Pharmaceutical and Biomedical Analysis, 2015, 111, 169-176.	2.8	34
102	Analysis of recombinant monoclonal antibodies in hydrophilic interaction chromatography: A generic method development approach. Journal of Pharmaceutical and Biomedical Analysis, 2017, 145, 24-32.	2.8	32
103	Influence of the length of the spacer on the partitioning properties of amphiphilic fluorescent membrane probes. Chemistry and Physics of Lipids, 1993, 66, 135-142.	3.2	31
104	Independent highly sensitive characterization of asparagine deamidation and aspartic acid isomerization by sheathless CZEâ€ESIâ€MS/MS. Journal of Mass Spectrometry, 2016, 51, 150-158.	1.6	31
105	Development of a fast workflow to screen the charge variants of therapeutic antibodies. Journal of Chromatography A, 2017, 1498, 147-154.	3.7	31
106	Top-down and middle-down approach by fraction collection enrichment using off-line capillary electrophoresis – mass spectrometry coupling: Application to monoclonal antibody F c/2 charge variants. Journal of Chromatography A, 2017, 1498, 120-127.	3.7	31
107	UV and Xâ€ray structural studies of a 101â€residue long Tat protein from a HIVâ€1 primary isolate and of its mutated, detoxified, vaccine candidate. Proteins: Structure, Function and Bioinformatics, 2010, 78, 1441-1456.	2.6	30
108	Analysis of antibody-drug conjugates by comprehensive on-line two-dimensional hydrophobic interaction chromatography x reversed phase liquid chromatography hyphenated to high resolution mass spectrometry. II- Identification of sub-units for the characterization of even and odd load drug species. Journal of Chromatography B: Analytical Technologies in the Biomedical and Life Sciences, 2016, 1032, 91-102.	2.3	30

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109	Proof of Concept To Achieve Infinite Selectivity for the Chromatographic Separation of Therapeutic Proteins. Analytical Chemistry, 2019, 91, 12954-12961.	6.5	30
110	Determination of size variants by CE-SDS for approved therapeutic antibodies: Key implications of subclasses and light chain specificities. Journal of Pharmaceutical and Biomedical Analysis, 2020, 184, 113166.	2.8	30
111	Gamma Interferon-Dependent Protection of the Mouse Upper Respiratory Tract following Parenteral Immunization with a Respiratory Syncytial Virus G Protein Fragment. Journal of Virology, 2002, 76, 10203-10210.	3.4	29
112	Orthogonal Middle-up Approaches for Characterization of the Glycan Heterogeneity of Etanercept by Hydrophilic Interaction Chromatography Coupled to High-Resolution Mass Spectrometry. Analytical Chemistry, 2019, 91, 873-880.	6.5	29
113	Characterization of the N-Terminal Heterogeneities of Monoclonal Antibodies Using In-Gel Charge Derivatization of α-Amines and LC-MS/MS. Analytical Chemistry, 2015, 87, 3784-3790.	6.5	28
114	Impact of organic modifier and temperature on protein denaturation in hydrophobic interaction chromatography. Journal of Pharmaceutical and Biomedical Analysis, 2016, 131, 124-132.	2.8	28
115	A New Anti-CXCR4 Antibody That Blocks the CXCR4/SDF-1 Axis and Mobilizes Effector Cells. Molecular Cancer Therapeutics, 2016, 15, 1890-1899.	4.1	28
116	Protocols for the analytical characterization of therapeutic monoclonal antibodies. III – Denaturing chromatographic techniques hyphenated to mass spectrometry. Journal of Chromatography B: Analytical Technologies in the Biomedical and Life Sciences, 2018, 1096, 95-106.	2.3	28
117	Tuning selectivity in cation-exchange chromatography applied for monoclonal antibody separations, part 1: Alternative mobile phases and fine tuning of the separation. Journal of Pharmaceutical and Biomedical Analysis, 2019, 168, 138-147.	2.8	28
118	Towards a simple on-line coupling of ion exchange chromatography and native mass spectrometry for the detailed characterization of monoclonal antibodies. Journal of Chromatography A, 2021, 1655, 462499.	3.7	28
119	Development of a quantitative assay for residual host cell proteins in a recombinant subunit vaccine against human respiratory syncytial virus. Journal of Immunological Methods, 2001, 251, 151-159.	1.4	27
120	Use of Ultrashort Columns for Therapeutic Protein Separations. Part 1: Theoretical Considerations and Proof of Concept. Analytical Chemistry, 2021, 93, 1277-1284.	6.5	26
121	Comprehensive study on the effects of sodium and potassium additives in size exclusion chromatographic separations of protein biopharmaceuticals. Journal of Pharmaceutical and Biomedical Analysis, 2017, 144, 242-251.	2.8	25
122	Characterizing various monoclonal antibodies with milder reversed phase chromatography conditions. Journal of Chromatography B: Analytical Technologies in the Biomedical and Life Sciences, 2018, 1096, 1-10.	2.3	25
123	Spanning or Looping? The Order and Conformation of Bipolar Phospholipids in Lipid Membranes Using 2Hâ€NMR Spectroscopy. Chemistry - A European Journal, 2000, 6, 4379-4384.	3.3	24
124	A novel bipolar mode of attachment to aluminium-containing adjuvants by BBG2Na, a recombinant subunit hRSV vaccine. Vaccine, 2001, 19, 4143-4152.	3.8	24
125	Highâ€resolution separation of monoclonal antibodies mixtures and their charge variants by an alternative and generic CZE method. Electrophoresis, 2018, 39, 2083-2090.	2.4	24
126	Influence of administration dose and route on the immunogenicity and protective efficacy of BBG2Na, a recombinant respiratory syncytial virus subunit vaccine candidate. Vaccine, 2000, 18, 2735-2742.	3.8	23

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127	Peptides as tools and drugs for immunotherapies. Journal of Peptide Science, 2007, 13, 588-602.	1.4	23
128	A Case Study to Identify the Drug Conjugation Site of a Site-Specific Antibody-Drug-Conjugate Using Middle-Down Mass Spectrometry. Journal of the American Society for Mass Spectrometry, 2019, 30, 2419-2429.	2.8	23
129	Streptococcus pneumoniae polysaccharides conjugated to the outer membrane protein A from Klebsiella pneumoniae elicit protective antibodies. Vaccine, 2002, 20, 2174-2180.	3.8	20
130	Intact monoclonal antibodies separation and analysis by sheathless capillary electrophoresis-mass spectrometry. European Journal of Mass Spectrometry, 2019, 25, 324-332.	1.0	20
131	Efficacy of the Antibody–Drug Conjugate W0101 in Preclinical Models of IGF-1 Receptor Overexpressing Solid Tumors. Molecular Cancer Therapeutics, 2020, 19, 168-177.	4.1	19
132	Monitoring therapeutic monoclonal antibodies in brain tumor. MAbs, 2014, 6, 1385-1393.	5.2	18
133	Absolute and multiplex quantification of antibodies in serum using PSAQâ,,¢ standards and LC-MS/MS. Bioanalysis, 2015, 7, 1237-1251.	1.5	18
134	A novel antagonist anti Met antibody with antitumor activities targeting both ligandâ€dependent and ligandâ€independent câ€Met receptors. International Journal of Cancer, 2016, 139, 1851-1863.	5.1	18
135	Toward Automation of Collision-Induced Unfolding Experiments through Online Size Exclusion Chromatography Coupled to Native Mass Spectrometry. Analytical Chemistry, 2020, 92, 12900-12908.	6.5	18
136	Identification and characterisation of multiple linear B cell protectopes in the respiratory syncytial virus G protein. Vaccine, 2001, 19, 2345-2351.	3.8	17
137	Tuning selectivity in cation-exchange chromatography applied for monoclonal antibody separations, part 2: Evaluation of recent stationary phases. Journal of Pharmaceutical and Biomedical Analysis, 2019, 172, 320-328.	2.8	17
138	Glycan-Mediated Technology for Obtaining Homogeneous Site-Specific Conjugated Antibody–Drug Conjugates: Synthesis and Analytical Characterization by Using Complementary Middle-up LC/HRMS Analysis. Analytical Chemistry, 2020, 92, 8170-8177.	6.5	17
139	Optimized Sample Preparation and Data Processing of Data-Independent Acquisition Methods for the Robust Quantification of Trace-Level Host Cell Protein Impurities in Antibody Drug Products. Journal of Proteome Research, 2021, 20, 923-931.	3.7	17
140	State-of-the-Art Native Mass Spectrometry and Ion Mobility Methods to Monitor Homogeneous Site-Specific Antibody-Drug Conjugates Synthesis. Pharmaceuticals, 2021, 14, 498.	3.8	16
141	Residual DNA Quantification in Clinical Batches of BBG2Na, a Recombinant Subunit Vaccine Against Human Respiratory Syncytial Virus. Biologicals, 2001, 29, 123-132.	1.4	15
142	Passive Transfer of Serum Antibodies Induced by BBG2Na, a Subunit Vaccine, in the Elderly Protects SCID Mouse Lungs Against Respiratory Syncytial Virus Challenge. Virology, 2002, 303, 130-137.	2.4	15
143	World Antibody-Drug Conjugate Summit, October 15–16, 2013, San Francisco, CA. MAbs, 2014, 6, 18-29.	5.2	15
144	On-Chip Mesoporous Functionalized Magnetic Microspheres for Protein Sequencing by Extended Bottom-up Mass Spectrometry. Analytical Chemistry, 2016, 88, 1775-1784.	6.5	15

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145	Bispecific antibody characterization by a combination of intact and site-specific/chain-specific LC/MS techniques. Talanta, 2022, 236, 122836.	5.5	15
146	Middle Level IM–MS and CIU Experiments for Improved Therapeutic Immunoglobulin Subclass Fingerprinting. Analytical Chemistry, 2020, 92, 8827-8835.	6.5	14
147	Alternative mobile phase additives for the characterization of protein biopharmaceuticals in liquid chromatography – Mass spectrometry. Analytica Chimica Acta, 2021, 1156, 338347.	5.4	14
148	Synthesis of fluorescent probes for localized membrane fluidity measurements. Tetrahedron, 1991, 47, 1459-1472.	1.9	13
149	Identification of B- and T-Cell Epitopes of BB, a Carrier Protein Derived from the G Protein of Streptococcus Strain G148. Vaccine Journal, 2003, 10, 125-132.	3.1	13
150	A new anti-human Fc method to capture and analyze ADCs for characterization of drug distribution and the drug-to-antibody ratio in serum from pre-clinical species. Journal of Chromatography B: Analytical Technologies in the Biomedical and Life Sciences, 2016, 1032, 149-154.	2.3	13
151	Use of Ultra-short Columns for Therapeutic Protein Separations, Part 2: Designing the Optimal Column Dimension for Reversed-Phase Liquid Chromatography. Analytical Chemistry, 2021, 93, 1285-1293.	6.5	13
152	High-Resolution IMS–MS to Assign Additional Disulfide Bridge Pairing in Complementarity-Determining Regions of an IgG4 Monoclonal Antibody. Journal of the American Society for Mass Spectrometry, 2021, 32, 2505-2512.	2.8	13
153	Ultra-short ion-exchange columns for fast charge variants analysis of therapeutic proteins. Journal of Chromatography A, 2021, 1657, 462568.	3.7	13
154	Quantitative N-Glycan Profiling of Therapeutic Monoclonal Antibodies Performed by Middle-Up Level HILIC-HRMS Analysis. Pharmaceutics, 2021, 13, 1744.	4.5	12
155	Epitope characterization of anti-JAM-A antibodies using orthogonal mass spectrometry and surface plasmon resonance approaches. MAbs, 2017, 9, 1317-1326.	5.2	11
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