

Valentina D'Atri

List of Publications by Year in descending order

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Version: 2024-02-01

47
papers

1,738
citations

218677

26
h-index

276875

41
g-index

52
all docs

52
docs citations

52
times ranked

1944
citing authors

#	ARTICLE	IF	CITATIONS
1	Adding a new separation dimension to MS and LC—MS: What is the utility of ion mobility spectrometry?. <i>Journal of Separation Science</i> , 2018, 41, 20-67.	2.5	140
2	Structure—phenotype correlations of human CYP21A2 mutations in congenital adrenal hyperplasia. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2013, 110, 2605-2610.	7.1	107
3	Recent Advances in Chromatography for Pharmaceutical Analysis. <i>Analytical Chemistry</i> , 2019, 91, 210-239.	6.5	85
4	Therapeutic Fc—fusion proteins: Current analytical strategies. <i>Journal of Separation Science</i> , 2021, 44, 35-62.	2.5	78
5	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. <i>Analytical Chemistry</i> , 2017, 89, 2086-2092.	6.5	77
6	An Online Four-Dimensional HIC—SEC—IM—MS Methodology for Proof-of-Concept Characterization of Antibody Drug Conjugates. <i>Analytical Chemistry</i> , 2018, 90, 1578-1586.	6.5	75
7	Characterization of 30 therapeutic antibodies and related products by size exclusion chromatography: Feasibility assessment for future mass spectrometry hyphenation. <i>Journal of Chromatography B: Analytical Technologies in the Biomedical and Life Sciences</i> , 2017, 1065-1066, 35-43.	2.3	73
8	Linking molecular models with ion mobility experiments. Illustration with a rigid nucleic acid structure. <i>Journal of Mass Spectrometry</i> , 2015, 50, 711-726.	1.6	69
9	Glycosylation of biosimilars: Recent advances in analytical characterization and clinical implications. <i>Analytica Chimica Acta</i> , 2019, 1089, 1-18.	5.4	62
10	Protocols for the analytical characterization of therapeutic monoclonal antibodies. II—Enzymatic and chemical sample preparation. <i>Journal of Chromatography B: Analytical Technologies in the Biomedical and Life Sciences</i> , 2017, 1060, 325-335.	2.3	59
11	Interlaboratory and Interplatform Study of Steroids Collision Cross Section by Traveling Wave Ion Mobility Spectrometry. <i>Analytical Chemistry</i> , 2020, 92, 5013-5022.	6.5	56
12	Monoclonal antibody N-glycosylation profiling using capillary electrophoresis—Mass spectrometry: Assessment and method validation. <i>Talanta</i> , 2018, 178, 530-537.	5.5	50
13	The Emergence of Universal Chromatographic Methods in the Research and Development of New Drug Substances. <i>Accounts of Chemical Research</i> , 2019, 52, 1990-2002.	15.6	50
14	A Novel Online Four-Dimensional SEC—SEC—IM—MS Methodology for Characterization of Monoclonal Antibody Size Variants. <i>Analytical Chemistry</i> , 2018, 90, 13929-13937.	6.5	49
15	Cutting-edge multi-level analytical and structural characterization of antibody-drug conjugates: present and future. <i>Expert Review of Proteomics</i> , 2019, 16, 337-362.	3.0	47
16	d(CGGTGGT) forms an octameric parallel G-quadruplex via stacking of unusual G(:C):G(:C):G(:C):G(:C) octads. <i>Nucleic Acids Research</i> , 2011, 39, 7848-7857.	14.5	42
17	Investigating the Role of T ₇ and T ₁₂ Residues on the Biological Properties of Thrombin-Binding Aptamer: Enhancement of Anticoagulant Activity by a Single Nucleobase Modification. <i>Journal of Medicinal Chemistry</i> , 2012, 55, 10716-10728.	6.4	42
18	Protocols for the analytical characterization of therapeutic monoclonal antibodies. I—Non-denaturing chromatographic techniques. <i>Journal of Chromatography B: Analytical Technologies in the Biomedical and Life Sciences</i> , 2017, 1058, 73-84.	2.3	42

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19	Characterization of an antibody-drug conjugate by hydrophilic interaction chromatography coupled to mass spectrometry. <i>Journal of Chromatography B: Analytical Technologies in the Biomedical and Life Sciences</i> , 2018, 1080, 37-41.	2.3	39
20	Analysis of recombinant monoclonal antibodies in hydrophilic interaction chromatography: A generic method development approach. <i>Journal of Pharmaceutical and Biomedical Analysis</i> , 2017, 145, 24-32.	2.8	32
21	New anti-HIV aptamers based on tetra-end-linked DNA G-quadruplexes: effect of the base sequence on anti-HIV activity. <i>Chemical Communications</i> , 2012, 48, 9516.	4.1	31
22	Determination of size variants by CE-SDS for approved therapeutic antibodies: Key implications of subclasses and light chain specificities. <i>Journal of Pharmaceutical and Biomedical Analysis</i> , 2020, 184, 113166.	2.8	30
23	Orthogonal Middle-up Approaches for Characterization of the Glycan Heterogeneity of Etanercept by Hydrophilic Interaction Chromatography Coupled to High-Resolution Mass Spectrometry. <i>Analytical Chemistry</i> , 2019, 91, 873-880.	6.5	29
24	Protocols for the analytical characterization of therapeutic monoclonal antibodies. III " Denaturing chromatographic techniques hyphenated to mass spectrometry. <i>Journal of Chromatography B: Analytical Technologies in the Biomedical and Life Sciences</i> , 2018, 1096, 95-106.	2.3	28
25	A generic workflow for the characterization of therapeutic monoclonal antibodies" application to daratumumab. <i>Analytical and Bioanalytical Chemistry</i> , 2019, 411, 4615-4627.	3.7	28
26	Current and future trends in reversed-phase liquid chromatography-mass spectrometry of therapeutic proteins. <i>TrAC - Trends in Analytical Chemistry</i> , 2020, 130, 115962.	11.4	28
27	Towards a simple on-line coupling of ion exchange chromatography and native mass spectrometry for the detailed characterization of monoclonal antibodies. <i>Journal of Chromatography A</i> , 2021, 1655, 462499.	3.7	28
28	Characterizing various monoclonal antibodies with milder reversed phase chromatography conditions. <i>Journal of Chromatography B: Analytical Technologies in the Biomedical and Life Sciences</i> , 2018, 1096, 1-10.	2.3	25
29	DNA-based nanostructures: The effect of the base sequence on octamer formation from d(XGGYGGT) tetramolecular G-quadruplexes. <i>Biochimie</i> , 2014, 99, 119-128.	2.6	20
30	Probing the reactivity of nebularine N1-oxide. A novel approach to C-6 C-substituted purine nucleosides. <i>Tetrahedron</i> , 2011, 67, 6138-6144.	1.9	18
31	Screening Platform toward New Anti-HIV Aptamers Set on Molecular Docking and Fluorescence Quenching Techniques. <i>Analytical Chemistry</i> , 2016, 88, 2327-2334.	6.5	18
32	Is hydrophobic interaction chromatography the most suitable technique to characterize site-specific antibody-drug conjugates?. <i>Journal of Chromatography A</i> , 2019, 1586, 149-153.	3.7	18
33	Glycan-Mediated Technology for Obtaining Homogeneous Site-Specific Conjugated Antibody"Drug Conjugates: Synthesis and Analytical Characterization by Using Complementary Middle-up LC/HRMS Analysis. <i>Analytical Chemistry</i> , 2020, 92, 8170-8177.	6.5	17
34	State-of-the-Art Native Mass Spectrometry and Ion Mobility Methods to Monitor Homogeneous Site-Specific Antibody-Drug Conjugates Synthesis. <i>Pharmaceuticals</i> , 2021, 14, 498.	3.8	16
35	Solid-phase synthesis and pharmacological evaluation of novel nucleoside-tethered dinuclear platinum(II) complexes. <i>Bioorganic and Medicinal Chemistry Letters</i> , 2011, 21, 5835-5838.	2.2	15
36	DNA and RNA telomeric G-quadruplexes: what topology features can be inferred from ion mobility mass spectrometry?. <i>Analyst</i> , The, 2019, 144, 6074-6088.	3.5	15

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37	Bispecific antibody characterization by a combination of intact and site-specific/chain-specific LC/MS techniques. <i>Talanta</i> , 2022, 236, 122836.	5.5	15
38	The impact of low adsorption surfaces for the analysis of DNA and RNA oligonucleotides. <i>Journal of Chromatography A</i> , 2022, 1677, 463324.	3.7	15
39	Alternative mobile phase additives for the characterization of protein biopharmaceuticals in liquid chromatography – Mass spectrometry. <i>Analytica Chimica Acta</i> , 2021, 1156, 338347.	5.4	14
40	The importance of being metal-free: The critical choice of column hardware for size exclusion chromatography coupled to high resolution mass spectrometry. <i>Analytica Chimica Acta</i> , 2021, 1183, 338987.	5.4	12
41	Quantitative N-Glycan Profiling of Therapeutic Monoclonal Antibodies Performed by Middle-Up Level HILIC-HRMS Analysis. <i>Pharmaceutics</i> , 2021, 13, 1744.	4.5	12
42	Insight into Pyridinium Chlorochromate Chemistry: Catalytic Oxidation of Tetrahydrofuran Compounds and Synthesis of Umbelactone. <i>European Journal of Organic Chemistry</i> , 2012, 2012, 4293-4305.	2.4	10
43	Direct coupling of size exclusion chromatography and mass spectrometry for the characterization of complex monoclonal antibody products. <i>Journal of Separation Science</i> , 2022, 45, 1997-2007.	2.5	8
44	Synthesis of 2,6-Dialkyl(aryl)purine Nucleosides by Exploiting the Reactivity of Nebularine towards Grignard Reagents. <i>European Journal of Organic Chemistry</i> , 2013, 2013, 6948-6954.	2.4	7
45	Characterization of Glycosylated Proteins at Subunit Level by HILIC/MS. <i>Methods in Molecular Biology</i> , 2021, 2271, 85-95.	0.9	2
46	Insight Into the Conformational Arrangement of a Bis-THF Diol Compound Through 2D-NMR Studies and X-Ray Structural Analysis. <i>Journal of Chemical Crystallography</i> , 2012, 42, 360-365.	1.1	1
47	A New Practice to Monitor the Fabrication Process of Fab-Targeting Ligands from Bevacizumab by LC-MS: Preparation and Analytical Characterization. <i>Scientia Pharmaceutica</i> , 2022, 90, 5.	2.0	1