Zhongqi Zhang

List of Publications by Year in descending order

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55 5,214 30 54 papers citations h-index g-index

57 57 57 4697 all docs docs citations times ranked citing authors

#	Article	IF	CITATIONS
1	A Mass Spectrometric Characterization of Light-Induced Modifications in Therapeutic Proteins. Journal of Pharmaceutical Sciences, 2022, 111, 1556-1564.	3.3	10
2	Observation of Heavy-Chain C-Terminal Amidation in Human Endogenous IgG. Journal of Pharmaceutical Sciences, 2022, , .	3.3	2
3	Genetic Code Expansion in the Engineered Organism Vmax X2: High Yield and Exceptional Fidelity. ACS Central Science, 2021, 7, 1500-1507.	11.3	9
4	Enabling development, manufacturing, and regulatory approval of biotherapeutics through advances in mass spectrometry. Current Opinion in Biotechnology, 2021, 71, 206-215.	6.6	11
5	Limited Proteolysis Coupled with Mass Spectrometry for Simultaneous Evaluation of a Large Number of Protein Variants for Their Impact on Conformational Stability. Analytical Chemistry, 2021, 93, 14263-14271.	6.5	2
6	An evaluation of instrument types for mass spectrometry-based multi-attribute analysis of biotherapeutics. MAbs, 2020, 12, 1783062.	5.2	23
7	Complete Extraction of Protein Dynamics Information in Hydrogen/Deuterium Exchange Mass Spectrometry Data. Analytical Chemistry, 2020, 92, 6486-6494.	6.5	15
8	Impact of Fc N-glycan sialylation on IgG structure. MAbs, 2019, 11, 1381-1390.	5.2	32
9	Reliable LC-MS Multiattribute Method for Biotherapeutics by Run-Time Response Calibration. Analytical Chemistry, 2019, 91, 5252-5260.	6.5	16
10	MS-based conformation analysis of recombinant proteins in design, optimization and development of biopharmaceuticals. Methods, 2018, 144, 134-151.	3.8	23
11	Amino acid misincorporation in recombinant proteins. Biotechnology Advances, 2018, 36, 168-181.	11.7	24
12	Amino Acid Misincorporation Propensities Revealed through Systematic Amino Acid Starvation. Biochemistry, 2018, 57, 6767-6779.	2.5	14
13	Molecular basis for the loss-of-function effects of the Alzheimer's disease–associated R47H variant of the immune receptor TREM2. Journal of Biological Chemistry, 2018, 293, 12634-12646.	3.4	88
14	A systematic dissection of sequence elements determining \hat{l}^2 -Klotho and FGF interaction and signaling. Scientific Reports, 2018, 8, 11045.	3.3	17
15	Effect of Fc-Glycan Structure on the Conformational Stability of IgG Revealed by Hydrogen/Deuterium Exchange and Limited Proteolysis. Biochemistry, 2016, 55, 860-868.	2.5	46
16	Metabolomics analysis of soy hydrolysates for the identification of productivity markers of mammalian cells for manufacturing therapeutic proteins. Biotechnology Progress, 2015, 31, 522-531.	2.6	28
17	Metabolic markers associated with high mannose glycan levels of therapeutic recombinant monoclonal antibodies. Journal of Biotechnology, 2015, 203, 22-31.	3.8	17
18	Conformational Difference in Human IgG2 Disulfide Isoforms Revealed by Hydrogen/Deuterium Exchange Mass Spectrometry. Biochemistry, 2015, 54, 1956-1962.	2.5	36

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19	Chemical Modifications of Therapeutic Proteins Induced by Residual Ethylene Oxide. Journal of Pharmaceutical Sciences, 2015, 104, 731-739.	3.3	22
20	Proteomics analysis of altered cellular metabolism induced by insufficient copper level. Journal of Biotechnology, 2014, 189, 15-26.	3.8	11
21	Discovery and Characterization of a Photo-Oxidative Histidine-Histidine Cross-Link in IgG1 Antibody Utilizing ¹⁸ O-Labeling and Mass Spectrometry. Analytical Chemistry, 2014, 86, 4940-4948.	6.5	84
22	LC-MS/MS Peptide Mapping with Automated Data Processing for Routine Profiling of N-Glycans in Immunoglobulins. Journal of the American Society for Mass Spectrometry, 2014, 25, 999-1011.	2.8	53
23	G/U and Certain Wobble Position Mismatches as Possible Main Causes of Amino Acid Misincorporations. Biochemistry, 2013, 52, 8165-8176.	2.5	82
24	Discovery of Undefined Protein Cross-Linking Chemistry: A Comprehensive Methodology Utilizing ¹⁸ O-Labeling and Mass Spectrometry. Analytical Chemistry, 2013, 85, 5900-5908.	6.5	38
25	Improved Protein Hydrogen/Deuterium Exchange Mass Spectrometry Platform with Fully Automated Data Processing. Analytical Chemistry, 2012, 84, 4942-4949.	6.5	104
26	Targeted codon optimization improves translational fidelity for an Fc fusion protein. Biotechnology and Bioengineering, 2012, 109, 2770-2777.	3.3	17
27	Retention Time Alignment of LC/MS Data by a Divide-and-Conquer Algorithm. Journal of the American Society for Mass Spectrometry, 2012, 23, 764-772.	2.8	40
28	Automated Precursor Ion Exclusion During LC-MS/MS Data Acquisition for Optimal Ion Identification. Journal of the American Society for Mass Spectrometry, 2012, 23, 1400-1407.	2.8	21
29	Prediction of Collision-Induced-Dissociation Spectra of Peptides with Post-translational or Process-Induced Modifications. Analytical Chemistry, 2011, 83, 8642-8651.	6.5	36
30	High-mannose glycans on the Fc region of therapeutic IgG antibodies increase serum clearance in humans. Glycobiology, 2011, 21, 949-959.	2.5	411
31	Rapid LC–MS screening for IgG Fc modifications and allelic variants in blood. Molecular Immunology, 2011, 49, 338-352.	2.2	37
32	Automated in-solution protein digestion using a commonly available high-performance liquid chromatography autosampler. Analytical Biochemistry, 2011, 411, 284-291.	2.4	21
33	Prediction of Collision-Induced Dissociation Spectra of Common <i>N</i> Glycopeptides for Glycoform Identification. Analytical Chemistry, 2010, 82, 10194-10202.	6.5	42
34	Naturally occurring glycan forms of human immunoglobulins G1 and G2. Molecular Immunology, 2010, 47, 2074-2082.	2.2	133
35	Prediction of Electron-Transfer/Capture Dissociation Spectra of Peptides. Analytical Chemistry, 2010, 82, 1990-2005.	6.5	30
36	Mass spectrometry for structural characterization of therapeutic antibodies. Mass Spectrometry Reviews, 2009, 28, 147-176.	5.4	287

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37	Mass measurement and top-down HPLC/MS analysis of intact monoclonal antibodies on a hybrid linear quadrupole ion trap-orbitrap mass spectrometer. Journal of the American Society for Mass Spectrometry, 2009, 20, 1415-1424.	2.8	137
38	Large-Scale Identification and Quantification of Covalent Modifications in Therapeutic Proteins. Analytical Chemistry, 2009, 81, 8354-8364.	6.5	92
39	Human IgG2 Antibodies Display Disulfide-mediated Structural Isoforms. Journal of Biological Chemistry, 2008, 283, 16194-16205.	3.4	252
40	Characterization of Variable Regions of Monoclonal Antibodies by Top-Down Mass Spectrometry. Analytical Chemistry, 2007, 79, 5723-5729.	6.5	66
41	Rearrangement of terminal amino acid residues in peptides by protease-catalyzed intramolecular transpeptidation. Analytical Biochemistry, 2006, 356, 282-290.	2.4	36
42	Peptide conformation in gas phase probed by collision-induced dissociation and its correlation to conformation in condensed phases. Journal of the American Society for Mass Spectrometry, 2006, 17, 786-794.	2.8	20
43	Prediction of Low-Energy Collision-Induced Dissociation Spectra of Peptides with Three or More Charges. Analytical Chemistry, 2005, 77, 6364-6373.	6.5	118
44	De Novo Peptide Sequencing Based on a Divide-and-Conquer Algorithm and Peptide Tandem Spectrum Simulation. Analytical Chemistry, 2004, 76, 6374-6383.	6.5	73
45	Prediction of Low-Energy Collision-Induced Dissociation Spectra of Peptides. Analytical Chemistry, 2004, 76, 3908-3922.	6.5	259
46	Disulfide structure of alfimeprase: A recombinant analog of fibrolase. Protein Science, 2001, 10, 1264-1267.	7.6	12
47	De Novo Peptide Sequencing by Two-Dimensional Fragment Correlation Mass Spectrometry. Analytical Chemistry, 2000, 72, 2337-2350.	6.5	66
48	Comparison of continuous and pulsed labeling amide hydrogen exchange/mass spectrometry for studies of protein dynamics. Journal of the American Society for Mass Spectrometry, 1999, 10, 675-684.	2.8	80
49	Optimizing Spectroscopic Signal-to-Noise Ratio in Analysis of Data Collected by a Chromatographic/Spectroscopic System. Analytical Chemistry, 1999, 71, 39-45.	6.5	17
50	A universal algorithm for fast and automated charge state deconvolution of electrospray mass-to-charge ratio spectra. Journal of the American Society for Mass Spectrometry, 1998, 9, 225-233.	2.8	478
51	Probing the Non-covalent Structure of Proteins by Amide Hydrogen Exchange and Mass Spectrometry. , 1997, 32, 135-146.		381
52	Human recombinant [C22A] FK506â€binding protein amide hydrogen exchange rates from mass spectrometry match and extend those from NMR. Protein Science, 1997, 6, 2203-2217.	7.6	77
53	Amide Hydrogen Exchange Determined by Mass Spectrometry: Application to Rabbit Muscle Aldolaseâ€. Biochemistry, 1996, 35, 779-791.	2.5	130
54	Probing noncovalent structural features of proteins by mass spectrometry. Mass Spectrometry Reviews, 1994, 13, 411-429.	5.4	126

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#	Article	IF	CITATIONS
55	Determination of amide hydrogen exchange by mass spectrometry: A new tool for protein structure elucidation. Protein Science, 1993, 2, 522-531.	7.6	908