

Rainer Bischoff

List of Publications by Year in descending order

Source: <https://exaly.com/author-pdf/2322102/publications.pdf>

Version: 2024-02-01

275
papers

10,727
citations

30070

54
h-index

48315

88
g-index

293
all docs

293
docs citations

293
times ranked

13646
citing authors

| # | ARTICLE | IF | CITATIONS |
|----|---|------|-----------|
| 1 | Physiology and pathophysiology of matrix metalloproteases. <i>Amino Acids</i> , 2011, 41, 271-290. | 2.7 | 630 |
| 2 | Protein Tyrosine Nitration: Selectivity, Physicochemical and Biological Consequences, Denitration, and Proteomics Methods for the Identification of Tyrosine-Nitrated Proteins. <i>Journal of Proteome Research</i> , 2009, 8, 3222-3238. | 3.7 | 337 |
| 3 | Identification of a heparin-binding hemagglutinin present in mycobacteria.. <i>Journal of Experimental Medicine</i> , 1996, 184, 993-1001. | 8.5 | 277 |
| 4 | An Automated On-Line Multidimensional HPLC System for Protein and Peptide Mapping with Integrated Sample Preparation. <i>Analytical Chemistry</i> , 2002, 74, 809-820. | 6.5 | 274 |
| 5 | Recommendations for Biomarker Identification and Qualification in Clinical Proteomics. <i>Science Translational Medicine</i> , 2010, 2, 46ps42. | 12.4 | 273 |
| 6 | Cytoplasmic p21 expression levels determine cisplatin resistance in human testicular cancer. <i>Journal of Clinical Investigation</i> , 2010, 120, 3594-3605. | 8.2 | 193 |
| 7 | Receptorâ€“ligand binding assays: Technologies and Applications. <i>Journal of Chromatography B: Analytical Technologies in the Biomedical and Life Sciences</i> , 2005, 829, 1-25. | 2.3 | 160 |
| 8 | Active Metalloproteases of the A Disintegrin And Metalloprotease (ADAM) Family: Biological Function and Structure. <i>Journal of Proteome Research</i> , 2011, 10, 17-33. | 3.7 | 159 |
| 9 | Molecular characterization of the mycobacterial heparin-binding hemagglutinin, a mycobacterial adhesin. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 1998, 95, 12625-12630. | 7.1 | 154 |
| 10 | Protein biogenesis machinery is a driver of replicative aging in yeast. <i>ELife</i> , 2015, 4, e08527. | 6.0 | 151 |
| 11 | Protein mapping by two-dimensional high performance liquid chromatography. <i>Journal of Chromatography A</i> , 2000, 893, 293-305. | 3.7 | 144 |
| 12 | Negative electrospray ionization mass spectrometry of synthetic and chemically modified oligonucleotides. <i>Nucleic Acids Research</i> , 1994, 22, 3895-3903. | 14.5 | 142 |
| 13 | Glycopeptide enrichment and separation for protein glycosylation analysis. <i>Journal of Separation Science</i> , 2012, 35, 2341-2372. | 2.5 | 138 |
| 14 | Malnutrition-associated liver steatosis and ATP depletion is caused by peroxisomal and mitochondrial dysfunction. <i>Journal of Hepatology</i> , 2016, 65, 1198-1208. | 3.7 | 133 |
| 15 | Amino acids: Chemistry, functionality and selected non-enzymatic post-translational modifications. <i>Journal of Proteomics</i> , 2012, 75, 2275-2296. | 2.4 | 131 |
| 16 | Quantitative Proteomics and Metabolomics Analysis of Normal Human Cerebrospinal Fluid Samples*. <i>Molecular and Cellular Proteomics</i> , 2010, 9, 2063-2075. | 3.8 | 127 |
| 17 | Sample preparation of human serum for the analysis of tumor markers. <i>Journal of Chromatography A</i> , 2003, 1009, 171-178. | 3.7 | 124 |
| 18 | A Critical Assessment of Feature Selection Methods for Biomarker Discovery in Clinical Proteomics. <i>Molecular and Cellular Proteomics</i> , 2013, 12, 263-276. | 3.8 | 120 |

| # | ARTICLE | IF | CITATIONS |
|----|---|-----|-----------|
| 19 | Internal standards in the quantitative determination of protein biopharmaceuticals using liquid chromatography coupled to mass spectrometry. <i>Journal of Chromatography B: Analytical Technologies in the Biomedical and Life Sciences</i> , 2012, 893-894, 1-14. | 2.3 | 115 |
| 20 | A novel insect defensin mediates the inducible antibacterial activity in larvae of the dragonfly <i>Aeschna cyanea</i> (Paleoptera, Odonata). <i>FEBS Journal</i> , 1992, 209, 977-984. | 0.2 | 112 |
| 21 | HDAC 3-selective inhibitor RGFP966 demonstrates anti-inflammatory properties in RAW 264.7 macrophages and mouse precision-cut lung slices by attenuating NF- κ B p65 transcriptional activity. <i>Biochemical Pharmacology</i> , 2016, 108, 58-74. | 4.4 | 105 |
| 22 | Methodological advances in the discovery of protein and peptide disease markers. <i>Journal of Chromatography B: Analytical Technologies in the Biomedical and Life Sciences</i> , 2004, 803, 27-40. | 2.3 | 102 |
| 23 | Cigarette smoke irreversibly modifies glutathione in airway epithelial cells. <i>American Journal of Physiology - Lung Cellular and Molecular Physiology</i> , 2007, 293, L1156-L1162. | 2.9 | 102 |
| 24 | The Effect of Preanalytical Factors on Stability of the Proteome and Selected Metabolites in Cerebrospinal Fluid (CSF). <i>Journal of Proteome Research</i> , 2009, 8, 5511-5522. | 3.7 | 102 |
| 25 | Quantitative Proteomics and Metabolomics Analysis of Normal Human Cerebrospinal Fluid Samples. <i>Molecular and Cellular Proteomics</i> , 2010, 9, 2063-2075. | 3.8 | 101 |
| 26 | Photoaffinity Labeling in Activity-Based Protein Profiling. <i>Topics in Current Chemistry</i> , 2011, 324, 85-113. | 4.0 | 100 |
| 27 | Nucleic acid resolution by mixed-mode chromatography. <i>Journal of Chromatography A</i> , 1984, 296, 329-337. | 3.7 | 93 |
| 28 | Isolation of extracellular vesicles with combined enrichment methods. <i>Journal of Chromatography B: Analytical Technologies in the Biomedical and Life Sciences</i> , 2021, 1169, 122604. | 2.3 | 90 |
| 29 | Multidimensional chromatography coupled to mass spectrometry in analysing complex proteomics samples. <i>Journal of Separation Science</i> , 2010, 33, 1421-1437. | 2.5 | 86 |
| 30 | Silica monolithic columns: Synthesis, characterisation and applications to the analysis of biological molecules. <i>Journal of Separation Science</i> , 2005, 28, 1628-1641. | 2.5 | 85 |
| 31 | Improvement of Recovery and Repeatability in Liquid Chromatography~Mass Spectrometry Analysis of Peptides. <i>Journal of Proteome Research</i> , 2007, 6, 781-791. | 3.7 | 83 |
| 32 | Deamidation of asparagine and glutamine residues in proteins and peptides: structural determinants and analytical methodology. <i>Biomedical Applications</i> , 1994, 662, 261-278. | 1.7 | 81 |
| 33 | LC-MS/MS-Based Monitoring of <i>In Vivo</i> Protein Biotransformation: Quantitative Determination of Trastuzumab and Its Deamidation Products in Human Plasma. <i>Analytical Chemistry</i> , 2016, 88, 1871-1877. | 6.5 | 81 |
| 34 | Optimized Time Alignment Algorithm for LC~MS Data: Correlation Optimized Warping Using Component Detection Algorithm-Selected Mass Chromatograms. <i>Analytical Chemistry</i> , 2008, 80, 7012-7021. | 6.5 | 79 |
| 35 | Disruption of the MDM2~p53 interaction strongly potentiates p53-dependent apoptosis in cisplatin-resistant human testicular carcinoma cells via the Fas/FasL pathway. <i>Cell Death and Disease</i> , 2011, 2, e148-e148. | 6.3 | 77 |
| 36 | Meta-Inflammation and Metabolic Reprogramming of Macrophages in Diabetes and Obesity: The Importance of Metabolites. <i>Frontiers in Immunology</i> , 2021, 12, 746151. | 4.8 | 77 |

| # | ARTICLE | IF | CITATIONS |
|----|---|-----|-----------|
| 37 | Chemically Modified, Immobilized Trypsin Reactor with Improved Digestion Efficiency. <i>Journal of Proteome Research</i> , 2005, 4, 1805-1813. | 3.7 | 74 |
| 38 | High-Sensitivity LC-MS/MS Quantification of Peptides and Proteins in Complex Biological Samples: The Impact of Enzymatic Digestion and Internal Standard Selection on Method Performance. <i>Analytical Chemistry</i> , 2013, 85, 9528-9535. | 6.5 | 74 |
| 39 | Application of electrospray mass spectrometry to the characterization of recombinant proteins up to 44 kDa. <i>Biological Mass Spectrometry</i> , 1990, 19, 692-704. | 0.5 | 73 |
| 40 | Cigarette smoke induces endoplasmic reticulum stress response and proteasomal dysfunction in human alveolar epithelial cells. <i>Experimental Physiology</i> , 2013, 98, 316-325. | 2.0 | 72 |
| 41 | HDAC1-3 inhibitor MS-275 enhances IL10 expression in RAW264.7 macrophages and reduces cigarette smoke-induced airway inflammation in mice. <i>Scientific Reports</i> , 2017, 7, 45047. | 3.3 | 69 |
| 42 | Analysis of human serum by liquid chromatography-mass spectrometry: Improved sample preparation and data analysis. <i>Journal of Chromatography A</i> , 2006, 1120, 142-150. | 3.7 | 65 |
| 43 | Electrochemical Oxidation and Cleavage of Tyrosine- and Tryptophan-Containing Tripeptides. <i>Analytical Chemistry</i> , 2010, 82, 7556-7565. | 6.5 | 65 |
| 44 | Probes for Non-invasive Matrix Metalloproteinase-targeted Imaging with PET and SPECT. <i>Current Pharmaceutical Design</i> , 2013, 19, 4647-4672. | 1.9 | 65 |
| 45 | Electrochemistry-Mass Spectrometry in Drug Metabolism and Protein Research. <i>Mini-Reviews in Medicinal Chemistry</i> , 2008, 8, 46-56. | 2.4 | 63 |
| 46 | Chemically synthesized hydrophobic anion-exchange high-performance liquid chromatography supports used for oligonucleotide resolution by mixed mode chromatography. <i>Journal of Chromatography A</i> , 1983, 270, 117-126. | 3.7 | 62 |
| 47 | Integrated Quantification and Identification of Aldehydes and Ketones in Biological Samples. <i>Analytical Chemistry</i> , 2014, 86, 5089-5100. | 6.5 | 62 |
| 48 | Analysis of Recombinant <i>Schistosoma mansoni</i> Antigen rSmp28 by On-Line Liquid Chromatography-Mass Spectrometry Combined with Sodium Dodecyl Sulfate Polyacrylamide Gel Electrophoresis. <i>Analytical Biochemistry</i> , 1994, 216, 127-134. | 2.4 | 61 |
| 49 | Automated multi-dimensional liquid chromatography: sample preparation and identification of peptides from human blood filtrate. <i>Journal of Chromatography B: Analytical Technologies in the Biomedical and Life Sciences</i> , 2004, 803, 121-130. | 2.3 | 60 |
| 50 | A novel method for the introduction of an aliphatic primary amino group at the 5' terminus of synthetic oligonucleotides. <i>Tetrahedron Letters</i> , 1986, 27, 3991-3994. | 1.4 | 59 |
| 51 | A noise model for mass spectrometry based proteomics. <i>Bioinformatics</i> , 2008, 24, 1070-1077. | 4.1 | 59 |
| 52 | The Impact of Delayed Storage on the Measured Proteome and Metabolome of Human Cerebrospinal Fluid. <i>Clinical Chemistry</i> , 2011, 57, 1703-1711. | 3.2 | 59 |
| 53 | tRNA separation by high-performance liquid chromatography using an aggregate of ods-hypersil and trioctyl-methylammonium chloride. <i>Journal of Chromatography A</i> , 1983, 257, 305-315. | 3.7 | 58 |
| 54 | Selective Acylation of Primary Amines in Peptides and Proteins. <i>Journal of Proteome Research</i> , 2007, 6, 4770-4776. | 3.7 | 57 |

| # | ARTICLE | IF | CITATIONS |
|----|---|-----|-----------|
| 55 | Lidocaine Oxidation by Electrogenerated Reactive Oxygen Species in the Light of Oxidative Drug Metabolism. <i>Analytical Chemistry</i> , 2010, 82, 7625-7633. | 6.5 | 57 |
| 56 | Sequence-specific deamidation: isolation and biochemical characterization of succinimide intermediates of recombinant hirudin. <i>Biochemistry</i> , 1993, 32, 725-734. | 2.5 | 54 |
| 57 | LC-MS analysis of phospholipids and lysophospholipids in human bronchoalveolar lavage fluid. <i>Journal of Chromatography B: Analytical Technologies in the Biomedical and Life Sciences</i> , 2005, 814, 21-28. | 2.3 | 54 |
| 58 | Boron-Doped Diamond Electrodes for the Electrochemical Oxidation and Cleavage of Peptides. <i>Analytical Chemistry</i> , 2013, 85, 6626-6632. | 6.5 | 53 |
| 59 | Quest for Missing Proteins: Update 2015 on Chromosome-Centric Human Proteome Project. <i>Journal of Proteome Research</i> , 2015, 14, 3415-3431. | 3.7 | 53 |
| 60 | Time Alignment Algorithms Based on Selected Mass Traces for Complex LC-MS Data. <i>Journal of Proteome Research</i> , 2010, 9, 1483-1495. | 3.7 | 52 |
| 61 | Electrochemistry in the Mimicry of Oxidative Drug Metabolism by Cytochrome P450s. <i>Current Drug Metabolism</i> , 2011, 12, 359-371. | 1.2 | 51 |
| 62 | Profiling and Identification of Cerebrospinal Fluid Proteins in a Rat EAE Model of Multiple Sclerosis. <i>Journal of Proteome Research</i> , 2012, 11, 2048-2060. | 3.7 | 51 |
| 63 | Stability of energy metabolites—An often overlooked issue in metabolomics studies: A review. <i>Electrophoresis</i> , 2015, 36, 2156-2169. | 2.4 | 51 |
| 64 | Assessment of Sample Preparation Bias in Mass Spectrometry-Based Proteomics. <i>Analytical Chemistry</i> , 2018, 90, 5405-5413. | 6.5 | 51 |
| 65 | One- vs two-phase extraction: re-evaluation of sample preparation procedures for untargeted lipidomics in plasma samples. <i>Analytical and Bioanalytical Chemistry</i> , 2018, 410, 5859-5870. | 3.7 | 51 |
| 66 | Expression of active recombinant human α_1 -antitrypsin in transgenic rabbits. <i>Journal of Biotechnology</i> , 1991, 18, 193-204. | 3.8 | 49 |
| 67 | Chemical and technical challenges in the analysis of central carbon metabolites by liquid-chromatography mass spectrometry. <i>Journal of Chromatography B: Analytical Technologies in the Biomedical and Life Sciences</i> , 2014, 966, 21-33. | 2.3 | 49 |
| 68 | Introduction of 5'-terminal functional groups into synthetic oligonucleotides for selective immobilization. <i>Analytical Biochemistry</i> , 1987, 164, 336-344. | 2.4 | 48 |
| 69 | Inhibitory activity and conformational transition of α_1 -proteinase inhibitor variants. <i>FEBS Journal</i> , 1991, 202, 1147-1155. | 0.2 | 48 |
| 70 | Innovations in Serum and Urine Markers in Prostate Cancer. <i>European Urology</i> , 2005, 48, 1031-1041. | 1.9 | 48 |
| 71 | Comparative Urine Analysis by Liquid Chromatography-Mass Spectrometry and Multivariate Statistics: Method Development, Evaluation, and Application to Proteinuria. <i>Journal of Proteome Research</i> , 2007, 6, 194-206. | 3.7 | 48 |
| 72 | Data Sharing Under the General Data Protection Regulation. <i>Hypertension</i> , 2021, 77, 1029-1035. | 2.7 | 47 |

| # | ARTICLE | IF | CITATIONS |
|----|---|------|-----------|
| 73 | Electrochemical Oxidation by Square-Wave Potential Pulses in the Imitation of Oxidative Drug Metabolism. <i>Analytical Chemistry</i> , 2011, 83, 5519-5525. | 6.5 | 46 |
| 74 | The histone acetyltransferase p300 inhibitor C646 reduces pro-inflammatory gene expression and inhibits histone deacetylases. <i>Biochemical Pharmacology</i> , 2016, 102, 130-140. | 4.4 | 46 |
| 75 | Applications of Monolithic Silica Capillary Columns in Proteomics. <i>Journal of Proteome Research</i> , 2003, 2, 633-642. | 3.7 | 44 |
| 76 | Two-Dimensional Method for Time Aligning Liquid Chromatography ² Mass Spectrometry Data. <i>Analytical Chemistry</i> , 2008, 80, 3095-3104. | 6.5 | 44 |
| 77 | In Matrix Derivatization Combined with LC-MS/MS Results in Ultrasensitive Quantification of Plasma Free Metanephrines and Catecholamines. <i>Analytical Chemistry</i> , 2020, 92, 9072-9078. | 6.5 | 44 |
| 78 | Chemical labeling and enrichment of nitrotyrosine-containing peptides. <i>Talanta</i> , 2010, 80, 1503-1512. | 5.5 | 43 |
| 79 | A 17.6 kbp region located upstream of the rabbit WAP gene directs high level expression of a functional human protein variant in transgenic mouse milk. <i>FEBS Letters</i> , 1992, 305, 265-268. | 2.8 | 41 |
| 80 | Oxidative protein labeling in mass-spectrometry-based proteomics. <i>Analytical and Bioanalytical Chemistry</i> , 2010, 397, 3441-3455. | 3.7 | 41 |
| 81 | Quantification of free and total desmosine and isodesmosine in human urine by liquid chromatography tandem mass spectrometry: A comparison of the surrogate-analyte and the surrogate-matrix approach for quantitation. <i>Journal of Chromatography A</i> , 2014, 1326, 13-19. | 3.7 | 41 |
| 82 | Relationship between plasma and salivary melatonin and cortisol investigated by LC-MS/MS. <i>Clinical Chemistry and Laboratory Medicine</i> , 2017, 55, 1340-1348. | 2.3 | 41 |
| 83 | Bioconjugation of Supramolecular Metallacages to Integrin Ligands for Targeted Delivery of Cisplatin. <i>Bioconjugate Chemistry</i> , 2018, 29, 3856-3865. | 3.6 | 41 |
| 84 | Translational Targeted Proteomics Profiling of Mitochondrial Energy Metabolic Pathways in Mouse and Human Samples. <i>Journal of Proteome Research</i> , 2016, 15, 3204-3213. | 3.7 | 40 |
| 85 | msCompare: A Framework for Quantitative Analysis of Label-free LC-MS Data for Comparative Candidate Biomarker Studies. <i>Molecular and Cellular Proteomics</i> , 2012, 11, M111.015974. | 3.8 | 39 |
| 86 | OPLAH ablation leads to accumulation of 5-oxoproline, oxidative stress, fibrosis, and elevated fillings pressures: a murine model for heart failure with a preserved ejection fraction. <i>Cardiovascular Research</i> , 2018, 114, 1871-1882. | 3.8 | 38 |
| 87 | Serum Protein Markers for the Early Detection of Lung Cancer: A Focus on Autoantibodies. <i>Journal of Proteome Research</i> , 2017, 16, 3-13. | 3.7 | 37 |
| 88 | Imaging of protein distribution in tissues using mass spectrometry: An interdisciplinary challenge. <i>TrAC - Trends in Analytical Chemistry</i> , 2019, 112, 13-28. | 11.4 | 37 |
| 89 | Analysis of regulatory phosphorylation sites in ZAP-70 by capillary high-performance liquid chromatography coupled to electrospray ionization or matrix-assisted laser desorption ionization time-of-flight mass spectrometry. <i>Biomedical Applications</i> , 2001, 752, 323-334. | 1.7 | 36 |
| 90 | Accumulation of 5-oxoproline in myocardial dysfunction and the protective effects of OPLAH. <i>Science Translational Medicine</i> , 2017, 9, . | 12.4 | 36 |

| # | ARTICLE | IF | CITATIONS |
|-----|--|------|-----------|
| 91 | Poly(ethylene glycol)-Based Stable Isotope Labeling Reagents for the Quantitative Analysis of Low Molecular Weight Metabolites by LC-MS. <i>Analytical Chemistry</i> , 2008, 80, 9171-9180. | 6.5 | 35 |
| 92 | A Panel of Regulated Proteins in Serum from Patients with Cervical Intraepithelial Neoplasia and Cervical Cancer. <i>Journal of Proteome Research</i> , 2014, 13, 4995-5007. | 3.7 | 34 |
| 93 | Purification and biochemical characterization of recombinant .alpha.1-antitrypsin variants expressed in <i>Escherichia coli</i> . <i>Biochemistry</i> , 1991, 30, 3464-3472. | 2.5 | 33 |
| 94 | Acute and chronic inflammatory responses induced by smoking in individuals susceptible and non-susceptible to development of COPD: from specific disease phenotyping towards novel therapy. Protocol of a cross-sectional study. <i>BMJ Open</i> , 2013, 3, e002178. | 1.9 | 33 |
| 95 | Bioconjugation strategies to couple supramolecular exo-functionalized palladium cages to peptides for biomedical applications. <i>Chemical Communications</i> , 2017, 53, 1405-1408. | 4.1 | 33 |
| 96 | Mixed-Mode chromatographic matrices for the resolution of transfer ribonucleic acids. <i>Journal of Chromatography A</i> , 1984, 317, 251-261. | 3.7 | 32 |
| 97 | Molecularly imprinted solid-phase extraction of cocaine metabolites from aqueous samples. <i>Analytica Chimica Acta</i> , 2005, 542, 14-19. | 5.4 | 32 |
| 98 | Susceptibility to COPD: Differential Proteomic Profiling after Acute Smoking. <i>PLoS ONE</i> , 2014, 9, e102037. | 2.5 | 32 |
| 99 | Quantification of biopharmaceuticals and biomarkers in complex biological matrices: a comparison of liquid chromatography coupled to tandem mass spectrometry and ligand binding assays. <i>Expert Review of Proteomics</i> , 2015, 12, 355-374. | 3.0 | 32 |
| 100 | Biomarker discovery by proteomics: challenges not only for the analytical chemist. <i>Analyst</i> , The, 2006, 131, 1193. | 3.5 | 31 |
| 101 | Fast, high-efficiency peptide separations on a 50-µm reversed-phase silica monolith in a nanoLC-MS set-up. <i>Journal of Chromatography A</i> , 2006, 1120, 165-172. | 3.7 | 31 |
| 102 | Chip-LC-MS for label-free profiling of human serum. <i>Electrophoresis</i> , 2007, 28, 4493-4505. | 2.4 | 31 |
| 103 | Depletion of high-abundance proteins from serum by immunoaffinity chromatography: A MALDI-FT-MS study. <i>Journal of Chromatography B: Analytical Technologies in the Biomedical and Life Sciences</i> , 2007, 847, 65-69. | 2.3 | 31 |
| 104 | Electrosynthesis methods and approaches for the preparative production of metabolites from parent drugs. <i>TrAC - Trends in Analytical Chemistry</i> , 2015, 70, 58-66. | 11.4 | 31 |
| 105 | Physicochemical Parameters Affecting the Electrospray Ionization Efficiency of Amino Acids after Acylation. <i>Analytical Chemistry</i> , 2017, 89, 9159-9166. | 6.5 | 31 |
| 106 | Running-wheel activity delays mitochondrial respiratory flux decline in aging mouse muscle via a post-transcriptional mechanism. <i>Aging Cell</i> , 2018, 17, e12700. | 6.7 | 31 |
| 107 | Isolation of specific tRNAs using an ionic-hydrophobic mixed-mode chromatographic matrix. <i>Analytical Biochemistry</i> , 1985, 151, 526-533. | 2.4 | 30 |
| 108 | Analysis of proteoglycans derived sulphated disaccharides by liquid chromatography/mass spectrometry. <i>Journal of Chromatography A</i> , 2005, 1080, 43-48. | 3.7 | 30 |

| # | ARTICLE | IF | CITATIONS |
|-----|---|------|-----------|
| 109 | Data processing pipelines for comprehensive profiling of proteomics samples by label-free LC-MS for biomarker discovery. <i>Talanta</i> , 2011, 83, 1209-1224. | 5.5 | 30 |
| 110 | Activity-based enrichment of matrix metalloproteinases using reversible inhibitors as affinity ligands. <i>Journal of Chromatography A</i> , 2003, 1009, 155-169. | 3.7 | 29 |
| 111 | Solid-Phase Synthesis of Succinylhydroxamate Peptides: Functionalized Matrix Metalloproteinase Inhibitors. <i>Organic Letters</i> , 2006, 8, 1705-1708. | 4.6 | 28 |
| 112 | Electrochemical oxidation by square-wave potential pulses in the imitation of phenacetin to acetaminophen biotransformation. <i>Analyst</i> , 2011, 136, 5064. | 3.5 | 28 |
| 113 | Analysis of biopharmaceutical proteins in biological matrices by LC-MS/MS I. Sample preparation. <i>TrAC - Trends in Analytical Chemistry</i> , 2013, 48, 41-51. | 11.4 | 28 |
| 114 | Recombinant Cholera Toxin B-Subunit in <i>Escherichia coli</i> : High-Level Secretion, Purification, and Characterization. <i>Protein Expression and Purification</i> , 1994, 5, 518-526. | 1.3 | 27 |
| 115 | In Situ Surface-Enhanced Raman Spectroelectrochemical Analysis System with a Hemin Modified Nanostructured Gold Surface. <i>Analytical Chemistry</i> , 2015, 87, 2588-2592. | 6.5 | 27 |
| 116 | Intact protein bioanalysis by liquid chromatography - High-resolution mass spectrometry. <i>Journal of Chromatography B: Analytical Technologies in the Biomedical and Life Sciences</i> , 2019, 1110-1111, 155-167. | 2.3 | 27 |
| 117 | An integrated high-performance liquid chromatography-mass spectrometry system for the activity-dependent analysis of matrix metalloproteases. <i>Journal of Chromatography A</i> , 2008, 1189, 417-425. | 3.7 | 26 |
| 118 | Controlling detrimental effects of metal cations in the quantification of energy metabolites via ultrahigh pressure-liquid chromatography-electrospray-tandem mass spectrometry by employing acetylacetone as a volatile eluent modifier. <i>Journal of Chromatography A</i> , 2013, 1294, 87-97. | 3.7 | 26 |
| 119 | Multidimensional separation of tryptic peptides from human serum proteins using reversed-phase, strong cation exchange, weak anion exchange, and fused-core fluorinated stationary phases. <i>Journal of Separation Science</i> , 2013, 36, 3463-3470. | 2.5 | 26 |
| 120 | Soluble receptor for advanced glycation end products (sRAGE) as a biomarker of COPD. <i>Respiratory Research</i> , 2021, 22, 127. | 3.6 | 26 |
| 121 | Antibody-free workflows for protein quantification by LC-MS/MS. <i>Bioanalysis</i> , 2015, 7, 763-779. | 1.5 | 25 |
| 122 | A fully validated liquid chromatography-mass spectrometry method for the quantification of the soluble receptor of advanced glycation end-products (sRAGE) in serum using immunopurification in a 96-well plate format. <i>Talanta</i> , 2018, 182, 414-421. | 5.5 | 25 |
| 123 | Purification and characterization of the recombinant human dopamine D2S receptor from <i>Pichia pastoris</i> . <i>Protein Expression and Purification</i> , 2004, 33, 176-184. | 1.3 | 24 |
| 124 | Proteomic analysis of human epithelial lining fluid by microfluidics-based nano-LC-MS/MS: A feasibility study. <i>Electrophoresis</i> , 2013, 34, 2683-2694. | 2.4 | 24 |
| 125 | Targeting transcription factor lysine acetylation in inflammatory airway diseases. <i>Epigenomics</i> , 2017, 9, 1013-1028. | 2.1 | 24 |
| 126 | Targeted LC-MS/MS for the evaluation of proteomics biomarkers in the blood of neonates with necrotizing enterocolitis and late-onset sepsis. <i>Analytical and Bioanalytical Chemistry</i> , 2018, 410, 7163-7175. | 3.7 | 24 |

| # | ARTICLE | IF | CITATIONS |
|-----|---|-----|-----------|
| 127 | Resolution of RNA using high-performance liquid chromatography. <i>Biomedical Applications</i> , 1987, 418, 51-72. | 1.7 | 23 |
| 128 | Functional Proteomics on Zinc-Dependent Metalloproteinases using Inhibitor Probes. <i>ChemMedChem</i> , 2009, 4, 164-170. | 3.2 | 23 |
| 129 | Capillary gel electrophoresis of oligonucleotides: prediction of migration times using base-specific migration coefficients. <i>Journal of Chromatography A</i> , 1994, 680, 479-489. | 3.7 | 22 |
| 130 | Activity-Based Matrix Metallo-Protease Enrichment Using Automated, Inhibitor Affinity Extractions. <i>Journal of Proteome Research</i> , 2006, 5, 1186-1194. | 3.7 | 22 |
| 131 | Antibody-Free LC-MS/MS Quantification of rhTRAIL in Human and Mouse Serum. <i>Analytical Chemistry</i> , 2013, 85, 10754-10760. | 6.5 | 22 |
| 132 | Analysis of the Lipidated Recombinant Outer Surface Protein A from <i>Borrelia burgdorferi</i> by Mass Spectrometry. <i>Analytical Biochemistry</i> , 1997, 246, 52-61. | 2.4 | 21 |
| 133 | Lipopolycationic Telomers for Gene Transfer: Synthesis and Evaluation of Their in Vitro Transfection Efficiency. <i>Journal of Medicinal Chemistry</i> , 2000, 43, 1367-1379. | 6.4 | 21 |
| 134 | Influence of clotting time on the protein composition of serum samples based on LC-MS data. <i>Journal of Chromatography B: Analytical Technologies in the Biomedical and Life Sciences</i> , 2009, 877, 1281-1291. | 2.3 | 21 |
| 135 | Antibody-Free Detection of Protein Tyrosine Nitration in Tissue Sections. <i>ChemBioChem</i> , 2011, 12, 2016-2020. | 2.6 | 21 |
| 136 | Molecular markers for cervical cancer screening. <i>Expert Review of Proteomics</i> , 2021, 18, 675-691. | 3.0 | 21 |
| 137 | Current Technological Challenges in Biomarker Discovery and Validation. <i>European Journal of Mass Spectrometry</i> , 2010, 16, 101-121. | 1.0 | 20 |
| 138 | Absolute Quantification of the Total and Antidrug Antibody-Bound Concentrations of Recombinant Human β -Glucosidase in Human Plasma Using Protein G Extraction and LC-MS/MS. <i>Analytical Chemistry</i> , 2015, 87, 4394-4401. | 6.5 | 20 |
| 139 | Covalent immobilization of a flavoprotein monooxygenase via its flavin cofactor. <i>Enzyme and Microbial Technology</i> , 2016, 82, 138-143. | 3.2 | 20 |
| 140 | Affimers as an Alternative to Antibodies in an Affinity LC-MS Assay for Quantification of the Soluble Receptor of Advanced Glycation End-Products (sRAGE) in Human Serum. <i>Journal of Proteome Research</i> , 2018, 17, 2892-2899. | 3.7 | 20 |
| 141 | Chemical isotope labeling for quantitative proteomics. <i>Mass Spectrometry Reviews</i> , 2023, 42, 546-576. | 5.4 | 20 |
| 142 | Proteomic alterations in early stage cervical cancer. <i>Oncotarget</i> , 2018, 9, 18128-18147. | 1.8 | 20 |
| 143 | Minocycline Effects on the Cerebrospinal Fluid Proteome of Experimental Autoimmune Encephalomyelitis Rats. <i>Journal of Proteome Research</i> , 2012, 11, 4315-4325. | 3.7 | 19 |
| 144 | Electrocatalytic oxidation of hydrogen peroxide on a platinum electrode in the imitation of oxidative drug metabolism of lidocaine. <i>Analyst</i> , The, 2012, 137, 4698. | 3.5 | 19 |

| # | ARTICLE | IF | CITATIONS |
|-----|---|-----|-----------|
| 145 | Cigarette Smoking Acutely Decreases Serum Levels of the Chronic Obstructive Pulmonary Disease Biomarker sRAGE. <i>American Journal of Respiratory and Critical Care Medicine</i> , 2018, 198, 1456-1458. | 5.6 | 19 |
| 146 | Threshold-Avoiding Proteomics Pipeline. <i>Analytical Chemistry</i> , 2011, 83, 7786-7794. | 6.5 | 18 |
| 147 | A Versatile Isobaric Tag Enables Proteome Quantification in Data-Dependent and Data-Independent Acquisition Modes. <i>Analytical Chemistry</i> , 2020, 92, 16149-16157. | 6.5 | 18 |
| 148 | Restricted-access material-based high-molecular-weight protein depletion coupled on-line with nano-liquid chromatography-mass spectrometry for proteomics applications. <i>Journal of Chromatography A</i> , 2007, 1149, 169-177. | 3.7 | 17 |
| 149 | A dual inhibitor of matrix metalloproteinases and a disintegrin and metalloproteinases, [18F]FB-ML5, as a molecular probe for non-invasive MMP/ADAM-targeted imaging. <i>Bioorganic and Medicinal Chemistry</i> , 2015, 23, 192-202. | 3.0 | 17 |
| 150 | Proteogenomics: Key Driver for Clinical Discovery and Personalized Medicine. <i>Advances in Experimental Medicine and Biology</i> , 2016, 926, 21-47. | 1.6 | 17 |
| 151 | A quantitative LC-MS/MS method for insulin-like growth factor 1 in human plasma. <i>Clinical Chemistry and Laboratory Medicine</i> , 2018, 56, 1905-1912. | 2.3 | 17 |
| 152 | Comparison of Targeted Mass Spectrometry Techniques with an Immunoassay: A Case Study for HSP90. <i>Proteomics - Clinical Applications</i> , 2018, 12, 1700107. | 1.6 | 17 |
| 153 | Application of Displacement Chromatography to Online Two-Dimensional Liquid Chromatography Coupled to Tandem Mass Spectrometry Improves Peptide Separation Efficiency and Detectability for the Analysis of Complex Proteomes. <i>Analytical Chemistry</i> , 2018, 90, 9951-9958. | 6.5 | 17 |
| 154 | Effect of liposome-encapsulated clodronate pretreatment on synthetic vector-mediated gene expression in mice. <i>Gene Therapy</i> , 1999, 6, 448-453. | 4.5 | 16 |
| 155 | Determination of regulatory phosphorylation sites in nanogram amounts of a synthetic fragment of ZAP-70 using microprobe NMR and on-line coupled capillary HPLC-NMR. <i>Magnetic Resonance in Chemistry</i> , 2005, 43, 747-754. | 1.9 | 16 |
| 156 | Study of human lung elastin degradation by different elastases using high-performance liquid chromatography/mass spectrometry. <i>Analytical Biochemistry</i> , 2006, 358, 216-224. | 2.4 | 16 |
| 157 | A peptide hydroxamate library for enrichment of metalloproteinases: towards an affinity-based metalloproteinase profiling protocol. <i>Organic and Biomolecular Chemistry</i> , 2008, 6, 1244. | 2.8 | 16 |
| 158 | Differential expression of protease activity in serum samples of prostate carcinoma patients with metastases. <i>Proteomics</i> , 2010, 10, 2348-2358. | 2.2 | 16 |
| 159 | Quantification of matrix metalloproteinase-9 in bronchoalveolar lavage fluid by selected reaction monitoring with microfluidics nano-liquid-chromatography-mass spectrometry. <i>Journal of Chromatography A</i> , 2012, 1246, 103-110. | 3.7 | 16 |
| 160 | Innovations in studying in vivo cell behavior and pharmacology in complex tissues - microvascular endothelial cells in the spotlight. <i>Cell and Tissue Research</i> , 2013, 354, 647-669. | 2.9 | 16 |
| 161 | ADAM10 mediates the house dust mite-induced release of chemokine ligand CCL20 by airway epithelium. <i>Allergy: European Journal of Allergy and Clinical Immunology</i> , 2015, 70, 1545-1552. | 5.7 | 16 |
| 162 | Electrochemical Protein Cleavage in a Microfluidic Cell with Integrated Boron Doped Diamond Electrodes. <i>Analytical Chemistry</i> , 2016, 88, 9190-9198. | 6.5 | 16 |

| # | ARTICLE | IF | CITATIONS |
|-----|--|------|-----------|
| 163 | Integrated proteogenomic approach identifying a protein signature of COPD and a new splice variant of SORBS1. <i>Thorax</i> , 2020, 75, 180-183. | 5.6 | 16 |
| 164 | Proteomics of Epithelial Lining Fluid Obtained by Bronchoscopic Microprobe Sampling. <i>Methods in Molecular Biology</i> , 2011, 790, 17-28. | 0.9 | 16 |
| 165 | N-Dealkylation of Amines. <i>Molecules</i> , 2022, 27, 3293. | 3.8 | 16 |
| 166 | Expression of α 1-proteinase inhibitor in <i>Escherichia coli</i> : Effects of single amino acid substitutions in the active site loop on aggregate formation. <i>Journal of Biotechnology</i> , 1994, 32, 231-238. | 3.8 | 15 |
| 167 | Resistance of quiescent and proliferating airway epithelial cells to H ₂ O ₂ challenge. <i>European Respiratory Journal</i> , 2007, 29, 633-642. | 6.7 | 15 |
| 168 | The experimental autoimmune encephalomyelitis model for proteomic biomarker studies: From rat to human. <i>Clinica Chimica Acta</i> , 2011, 412, 812-822. | 1.1 | 15 |
| 169 | Proteomic Studies Related to Genetic Determinants of Variability in Protein Concentrations. <i>Journal of Proteome Research</i> , 2014, 13, 5-14. | 3.7 | 15 |
| 170 | Metalloproteinase Profiling in Lung Transplant Recipients With Good Outcome and Bronchiolitis Obliterans Syndrome. <i>Transplantation</i> , 2015, 99, 1946-1952. | 1.0 | 15 |
| 171 | A 6-alkylsalicylate histone acetyltransferase inhibitor inhibits histone acetylation and pro-inflammatory gene expression in murine precision-cut lung slices. <i>Pulmonary Pharmacology and Therapeutics</i> , 2017, 44, 88-95. | 2.6 | 15 |
| 172 | LC-MS analysis of key components of the glutathione cycle in tissues and body fluids from mice with myocardial infarction. <i>Journal of Pharmaceutical and Biomedical Analysis</i> , 2018, 160, 289-296. | 2.8 | 15 |
| 173 | Change of charge variant composition of trastuzumab upon stressing at physiological conditions. <i>Journal of Chromatography A</i> , 2021, 1655, 462506. | 3.7 | 15 |
| 174 | Surface-modified electrodes in the mimicry of oxidative drug metabolism. <i>TrAC - Trends in Analytical Chemistry</i> , 2015, 70, 50-57. | 11.4 | 14 |
| 175 | Microbial Flavoprotein Monooxygenases as Mimics of Mammalian Flavin-Containing Monooxygenases for the Enantioselective Preparation of Drug Metabolites. <i>Drug Metabolism and Disposition</i> , 2016, 44, 1270-1276. | 3.3 | 14 |
| 176 | Analysis of the primary structure and post-translational modifications of the <i>Schistosoma mansoni</i> antigen Smp28 by electrospray mass spectrometry. <i>Biomedical Applications</i> , 1994, 662, 279-290. | 1.7 | 13 |
| 177 | Transfection of Myoblasts in Primary Culture with Isomeric Cationic Cholesterol Derivatives. <i>Analytical Biochemistry</i> , 1997, 254, 69-81. | 2.4 | 13 |
| 178 | Design of Peptide Hydroxamate-Based Photoreactive Activity-Based Probes of Zinc-Dependent Metalloproteases. <i>European Journal of Organic Chemistry</i> , 2010, 2010, 2100-2112. | 2.4 | 13 |
| 179 | Enrichment and Detection of Tyrosine-Nitrated Proteins. <i>Current Protocols in Protein Science</i> , 2012, 69, Unit 14.13. | 2.8 | 13 |
| 180 | Optimization of reaction parameters for the electrochemical oxidation of lidocaine with a Design of Experiments approach. <i>Electrochimica Acta</i> , 2015, 171, 23-28. | 5.2 | 13 |

| # | ARTICLE | IF | CITATIONS |
|-----|--|-----|-----------|
| 181 | Radiation chemical studies of Gly-Met-Gly in aqueous solution. <i>Free Radical Research</i> , 2016, 50, S24-S39. | 3.3 | 13 |
| 182 | Electrochemical N-demethylation of tropane alkaloids. <i>Green Chemistry</i> , 2020, 22, 6455-6463. | 9.0 | 13 |
| 183 | TEMPO-Mediated Electrochemical N-demethylation of Opiate Alkaloids. <i>ChemElectroChem</i> , 2021, 8, 2590-2596. | 3.4 | 13 |
| 184 | Isolation of recombinant hirudin by preparative high-performance liquid chromatography. <i>Journal of Chromatography A</i> , 1989, 476, 245-255. | 3.7 | 12 |
| 185 | Analysis of recombinant proteins by isoelectric focusing in immobilized pH gradients. <i>Electrophoresis</i> , 1992, 13, 214-219. | 2.4 | 12 |
| 186 | Assuring Consistent Performance of an Insulin-Like Growth Factor 1 MALDI Immunoassay by Monitoring Measurement Quality Indicators. <i>Analytical Chemistry</i> , 2017, 89, 6188-6195. | 6.5 | 12 |
| 187 | Tutorial: Correction of shifts in single-stage LC-MS(/MS) data. <i>Analytica Chimica Acta</i> , 2018, 999, 37-53. | 5.4 | 12 |
| 188 | Quantification of surfactant protein D (SPD) in human serum by liquid chromatography-mass spectrometry (LC-MS). <i>Talanta</i> , 2019, 202, 507-513. | 5.5 | 12 |
| 189 | Targeted imaging of integrins in cancer tissues using photocleavable Ru(II) polypyridine complexes as mass-tags. <i>Chemical Communications</i> , 2020, 56, 5941-5944. | 4.1 | 12 |
| 190 | Solvoplex: A New Type of Synthetic Vector for Intrapulmonary Gene Delivery. <i>Human Gene Therapy</i> , 1999, 10, 2891-2905. | 2.7 | 11 |
| 191 | Synthesis and stability study of the new pentammonio lipid pcTG90, a gene transfer agent. <i>Tetrahedron Letters</i> , 1999, 40, 8089-8091. | 1.4 | 11 |
| 192 | Recent Developments in Proteoglycan Purification and Analysis. <i>Current Pharmaceutical Analysis</i> , 2006, 2, 323-337. | 0.6 | 11 |
| 193 | In Vitro Transcription/Translation System: A Versatile Tool in the Search for Missing Proteins. <i>Journal of Proteome Research</i> , 2015, 14, 3441-3451. | 3.7 | 11 |
| 194 | Quantitative antibody-free LC-MS/MS analysis of sTRAIL in sputum and saliva at the sub-ng/mL level. <i>Journal of Chromatography B: Analytical Technologies in the Biomedical and Life Sciences</i> , 2016, 1032, 205-210. | 2.3 | 11 |
| 195 | The degradation of nucleotide triphosphates extracted under boiling ethanol conditions is prevented by the yeast cellular matrix. <i>Metabolomics</i> , 2017, 13, 1. | 3.0 | 11 |
| 196 | Improving selectivity and sensitivity of protein quantitation by LC-HR-MS/MS: determination of somatotropin in rat plasma. <i>Bioanalysis</i> , 2018, 10, 1009-1021. | 1.5 | 11 |
| 197 | Selective Maleylation-Directed Isobaric Peptide Termini Labeling for Accurate Proteome Quantification. <i>Analytical Chemistry</i> , 2020, 92, 7836-7844. | 6.5 | 11 |
| 198 | The Isotopic Ac-IP Tag Enables Multiplexed Proteome Quantification in Data-Independent Acquisition Mode. <i>Analytical Chemistry</i> , 2021, 93, 8196-8202. | 6.5 | 11 |

| # | ARTICLE | IF | CITATIONS |
|-----|---|-----|-----------|
| 199 | Development and validation of a radioreceptor assay for the determination of morphine and its active metabolites in serum. <i>Journal of Pharmaceutical and Biomedical Analysis</i> , 2005, 39, 964-971. | 2.8 | 10 |
| 200 | High-sensitivity quantitation of a Nanobody [®] in plasma by single-cartridge multidimensional SPE and ultra-performance LC-MS/MS. <i>Bioanalysis</i> , 2015, 7, 53-64. | 1.5 | 10 |
| 201 | Highly sensitive antibody-free LC-MS/MS quantification of rhTRAIL in serum. <i>Bioanalysis</i> , 2016, 8, 881-890. | 1.5 | 10 |
| 202 | Identification of Analytical Factors Affecting Complex Proteomics Profiles Acquired in a Factorial Design Study with Analysis of Variance: Simultaneous Component Analysis. <i>Analytical Chemistry</i> , 2016, 88, 4229-4238. | 6.5 | 10 |
| 203 | Genomic variability and protein species – Improving sequence coverage for proteogenomics. <i>Journal of Proteomics</i> , 2016, 134, 25-36. | 2.4 | 10 |
| 204 | Analytical and pharmacological consequences of the in vivo deamidation of trastuzumab and pertuzumab. <i>Analytical and Bioanalytical Chemistry</i> , 2022, 414, 1513-1524. | 3.7 | 10 |
| 205 | Characterization of the interaction between human complement protein C4 and a single-chain variable fragment antibody by capillary electrophoresis and surface plasmon resonance. <i>Electrophoresis</i> , 2004, 25, 1561-1568. | 2.4 | 9 |
| 206 | A high-throughput processing service for retention time alignment of complex proteomics and metabolomics LC-MS data. <i>Bioinformatics</i> , 2011, 27, 1176-1178. | 4.1 | 9 |
| 207 | Simultaneous serum desalting and total protein determination by macroporous reversed-phase chromatography. <i>Analytical and Bioanalytical Chemistry</i> , 2013, 405, 3195-3203. | 3.7 | 9 |
| 208 | Separation of deamidated peptides with mixed-mode chromatography using phospholipid-functionalized monolithic stationary phases. <i>Journal of Chromatography A</i> , 2019, 1603, 417-421. | 3.7 | 9 |
| 209 | Influence of mobile phase pH on high-performance liquid chromatographic column loading capacity. <i>Journal of Chromatography A</i> , 1988, 437, 429-435. | 3.7 | 8 |
| 210 | Chemical labeling of electrochemically cleaved peptides. <i>Rapid Communications in Mass Spectrometry</i> , 2013, 27, 546-552. | 1.5 | 8 |
| 211 | Quantification of the soluble Receptor of Advanced Glycation End-Products (sRAGE) by LC-MS after enrichment by strong cation exchange (SCX) solid-phase extraction (SPE) at the protein level. <i>Analytica Chimica Acta</i> , 2018, 1043, 45-51. | 5.4 | 8 |
| 212 | Exact hypothesis testing for shrinkage-based Gaussian graphical models. <i>Bioinformatics</i> , 2019, 35, 5011-5017. | 4.1 | 8 |
| 213 | Online-2D NanoLC-MS for Crude Serum Proteome Profiling: Assessing Sample Preparation Impact on Proteome Composition. <i>Analytical Chemistry</i> , 2021, 93, 9663-9668. | 6.5 | 8 |
| 214 | Enrichment and Liquid Chromatography-Mass Spectrometry Analysis of Trastuzumab and Pertuzumab Using Affimer Reagents. <i>Analytical Chemistry</i> , 2021, 93, 13597-13605. | 6.5 | 8 |
| 215 | Label-Free Proteomics of Serum. <i>Methods in Molecular Biology</i> , 2008, 484, 67-77. | 0.9 | 8 |
| 216 | Non-Antibody-Based Binders for the Enrichment of Proteins for Analysis by Mass Spectrometry. <i>Biomolecules</i> , 2021, 11, 1791. | 4.0 | 8 |

| # | ARTICLE | IF | CITATIONS |
|-----|---|-----|-----------|
| 217 | Sulphation of hirudin in BHK cells. <i>FEBS Letters</i> , 1990, 275, 36-38. | 2.8 | 7 |
| 218 | Lipase A gene transcription in <i>Pseudomonas alcaligenes</i> is under control of RNA polymerase σ^{54} and response regulator LipR. <i>FEMS Microbiology Letters</i> , 2012, 329, 146-153. | 1.8 | 7 |
| 219 | Suppression of Surface-Enhanced Raman Scattering on Gold Nanostructures by Metal Adhesion Layers. <i>Journal of Physical Chemistry C</i> , 2016, 120, 18756-18762. | 3.1 | 7 |
| 220 | The relevance of K _i calculation for bi-substrate enzymes illustrated by kinetic evaluation of a novel lysine (K) acetyltransferase 8 inhibitor. <i>European Journal of Medicinal Chemistry</i> , 2017, 136, 480-486. | 5.5 | 7 |
| 221 | Specific Affinity Enrichment of Electrochemically Cleaved Peptides Based on Cu(II)-Mediated Spirolactone Tagging. <i>Analytical Chemistry</i> , 2017, 89, 7123-7129. | 6.5 | 7 |
| 222 | Pre- and Post-analytical Factors in Biomarker Discovery. <i>Methods in Molecular Biology</i> , 2019, 1959, 1-22. | 0.9 | 7 |
| 223 | A Collision-Induced Dissociation Cleavable Isobaric Tag for Peptide Fragment Ion-Based Quantification in Proteomics. <i>Journal of Proteome Research</i> , 2020, 19, 3817-3824. | 3.7 | 7 |
| 224 | Intact protein quantification in biological samples by liquid chromatography μ high-resolution mass spectrometry: somatropin in rat plasma. <i>Journal of Chromatography B: Analytical Technologies in the Biomedical and Life Sciences</i> , 2020, 1144, 122079. | 2.3 | 7 |
| 225 | An antibody-free LC-MS/MS method for the quantification of intact insulin-like growth factors 1 and 2 in human plasma. <i>Analytical and Bioanalytical Chemistry</i> , 2021, 413, 2035-2044. | 3.7 | 7 |
| 226 | Free Urinary Desmosine and Isodesmosine as COPD Biomarkers: The Relevance of Confounding Factors. <i>Chronic Obstructive Pulmonary Diseases (Miami, Fla)</i> , 2016, 3, 560-569. | 0.7 | 7 |
| 227 | Plasma sRAGE levels strongly associate with centrilobular emphysema assessed by HRCT scans. <i>Respiratory Research</i> , 2022, 23, 15. | 3.6 | 7 |
| 228 | Electrochemical oxidation of quaternary ammonium electrolytes: Unexpected side reactions in organic electrochemistry. <i>Electrochemistry Communications</i> , 2012, 21, 54-57. | 4.7 | 6 |
| 229 | Electron Transfer and Collision Induced Dissociation of Non-Derivatized and Derivatized Desmosine and Isodesmosine. <i>Journal of the American Society for Mass Spectrometry</i> , 2013, 24, 83-91. | 2.8 | 6 |
| 230 | Site-specific quantification of lysine acetylation in the N-terminal tail of histone H4 using a double-labelling, targeted UHPLC MS/MS approach. <i>Analytical and Bioanalytical Chemistry</i> , 2016, 408, 3547-3553. | 3.7 | 6 |
| 231 | Mechanism of aromatic hydroxylation of lidocaine at a Pt electrode under acidic conditions. <i>Electrochimica Acta</i> , 2017, 224, 636-641. | 5.2 | 6 |
| 232 | Pipelines and Systems for Threshold-Avoiding Quantification of LC-MS/MS Data. <i>Analytical Chemistry</i> , 2021, 93, 11215-11224. | 6.5 | 6 |
| 233 | Hydrophobic Cluster Analysis of G Protein-Coupled Receptors: A Powerful tool to Derive Structural and Functional Information from 2D-Representation of Protein Sequences. <i>Journal of Receptors and Signal Transduction</i> , 1993, 13, 179-194. | 1.2 | 5 |
| 234 | The use of affinity sorbents in targeted proteomics. <i>Drug Discovery Today: Technologies</i> , 2006, 3, 5-11. | 4.0 | 5 |

| # | ARTICLE | IF | CITATIONS |
|-----|--|-----|-----------|
| 235 | MicroPET Evaluation of a Hydroxamate-Based MMP Inhibitor, [¹⁸ F]FB-ML5, in a Mouse Model of Cigarette Smoke-Induced Acute Airway Inflammation. <i>Molecular Imaging and Biology</i> , 2015, 17, 680-687. | 2.6 | 5 |
| 236 | Cleavable Crosslinkers as Tissue Fixation Reagents for Proteomic Analysis. <i>ChemBioChem</i> , 2018, 19, 736-743. | 2.6 | 5 |
| 237 | Reply to Biswas: Acute and Chronic Effects of Cigarette Smoking on sRAGE. <i>American Journal of Respiratory and Critical Care Medicine</i> , 2019, 199, 806-807. | 5.6 | 5 |
| 238 | Analytical tools for the characterization of deamidation in monoclonal antibodies. <i>Journal of Chromatography Open</i> , 2022, 2, 100025. | 2.2 | 5 |
| 239 | Identification of damage associated molecular patterns and extracellular matrix proteins as major constituents of the surface proteome of lung implantable silicone/nitinol devices. <i>Acta Biomaterialia</i> , 2022, 141, 209-218. | 8.3 | 5 |
| 240 | Selective quantification of the 22-kDa isoform of human growth hormone 1 in serum and plasma by immunocapture and LC-MS/MS. <i>Analytical and Bioanalytical Chemistry</i> , 2022, 414, 6187-6200. | 3.7 | 5 |
| 241 | A new extracellular protein of <i>Pseudomonas aeruginosa</i> PA103 regulated by regA. <i>Microbiology (United Kingdom)</i> , 1994, 140, 1755-1761. | 1.8 | 4 |
| 242 | Recent developments in proteomics. <i>Analytical and Bioanalytical Chemistry</i> , 2003, 376, 289-291. | 3.7 | 4 |
| 243 | Purification of decorin core protein from human lung tissue. <i>Journal of Chromatography A</i> , 2006, 1123, 151-159. | 3.7 | 4 |
| 244 | Inversion of peak elution order prevents uniform time alignment of complex liquid-chromatography coupled to mass spectrometry datasets. <i>Journal of Chromatography A</i> , 2014, 1373, 61-72. | 3.7 | 4 |
| 245 | Efficient and Selective Chemical Labeling of Electrochemically Generated Peptides Based on Spirolactone Chemistry. <i>Analytical Chemistry</i> , 2016, 88, 6465-6471. | 6.5 | 4 |
| 246 | Confounding Factors Affecting sRAGE as a Biomarker for Chronic Obstructive Pulmonary Disease. <i>American Journal of Respiratory and Critical Care Medicine</i> , 2019, 200, 114-114. | 5.6 | 4 |
| 247 | Prioritization of COPD protein biomarkers, based on a systematic study of the literature. <i>Advances in Precision Medicine</i> , 2016, 1, 4. | 0.3 | 4 |
| 248 | Effect of Trastuzumab-HER2 Complex Formation on Stress-Induced Modifications in the CDRs of Trastuzumab. <i>Frontiers in Chemistry</i> , 2021, 9, 794247. | 3.6 | 4 |
| 249 | Synthesis and immobilization of a novel acridine derivative on microparticulate silica. <i>Journal of Chromatography A</i> , 1987, 397, 13-24. | 3.7 | 3 |
| 250 | Synthesis and characterization of photoactivatable peptide agonists of the human thrombin receptor. <i>FEBS Letters</i> , 1994, 349, 301-306. | 2.8 | 3 |
| 251 | Mass spectrometric analysis of PTM dynamics using stable isotope labeled metabolic precursors in cell culture. <i>Analyst</i> , 2019, 144, 6812-6833. | 3.5 | 3 |
| 252 | Female Specific Association of Low Insulin-Like Growth Factor 1 (IGF1) Levels with Increased Risk of Premature Mortality in Renal Transplant Recipients. <i>Journal of Clinical Medicine</i> , 2020, 9, 293. | 2.4 | 3 |

| # | ARTICLE | IF | CITATIONS |
|-----|--|------|-----------|
| 253 | Sample Preparation of Body Fluids for Proteomics Analysis. , 2007, , 31-69. | | 3 |
| 254 | Adsorptive Microtiter Plates As Solid Supports in Affinity Purification Workflows. Journal of Proteome Research, 2021, 20, 5218-5221. | 3.7 | 3 |
| 255 | Nanoporous Gold Catalyst for the Oxidative Nâ€œDealkylation of Drug Molecules: A Method for Synthesis of Nâ€œDealkylated Metabolites. ChemMedChem, 2022, , . | 3.2 | 3 |
| 256 | Activity-Dependent Photoaffinity Labeling of Metalloproteases. Methods in Molecular Biology, 2017, 1491, 103-111. | 0.9 | 2 |
| 257 | Combined Metabolic and Chemical (CoMetChem) Labeling Using Stable Isotopesâ€œa Strategy to Reveal Site-Specific Histone Acetylation and Deacetylation Rates by LCâ€œMS. Analytical Chemistry, 2021, 93, 12872-12880. | 6.5 | 2 |
| 258 | Proteomics approach to identify COPD-related changes in pulmonary fibroblasts. , 2021, , . | | 2 |
| 259 | Chapter 2 HPLC of Transfer RNAs Using Ionic-Hydrophobic Mixed-Mode Chromatography and Hydrophobic-Interaction Chromatography. Journal of Chromatography Library, 1990, , A73-A102. | 0.1 | 1 |
| 260 | Addition of Acetaldehyde to the N-Terminus of a Recombinant Schistosoma Mansoni Glutathione S-Transferase Upon High-Level Expression in Saccharomyces Cerevisiae. FEBS Journal, 1997, 245, 589-599. | 0.2 | 1 |
| 261 | Multiple Testing Issues in Discriminating Compound-Related Peaks and Chromatograms from High Frequency Noise, Spikes and Solvent-Based Noise in LC - MS Data Sets. Statistical Applications in Genetics and Molecular Biology, 2007, 6, Article23. | 0.6 | 1 |
| 262 | Analysis of biopharmaceuticals. TrAC - Trends in Analytical Chemistry, 2013, 48, 40. | 11.4 | 1 |
| 263 | Targeted Proteomics to Study Mitochondrial Biology. Advances in Experimental Medicine and Biology, 2019, 1158, 101-117. | 1.6 | 1 |
| 264 | Editorial response to author review in publishing science. Journal of Chromatography B: Analytical Technologies in the Biomedical and Life Sciences, 2005, 827, 2-2. | 2.3 | 0 |
| 265 | Let the Data Flow!. Journal of Proteome Research, 2008, 7, 478-478. | 3.7 | 0 |
| 266 | Cigarette Smoke Disturbs Protein Turnover Inside Airway Epithelial Cells. , 2010, , . | | 0 |
| 267 | Biomarker Discovery In Chronic Obstructive Pulmonary Disease (COPD) Using Epithelial Lining Fluid: A Proteomic Approach. , 2011, , . | | 0 |
| 268 | PREFACE. Introduction to Biomarker Discovery and Validation. RSC Drug Discovery Series, 2013, , P005-P008. | 0.3 | 0 |
| 269 | Omics Technology: Lipidomics and Its Pitfalls During the Preanalytical Stage. , 2018, , . | | 0 |
| 270 | The â€œun-shrunkâ€œ™ partial correlation in Gaussian graphical models. BMC Bioinformatics, 2021, 22, 424. | 2.6 | 0 |

| # | ARTICLE | IF | CITATIONS |
|-----|--|-----|-----------|
| 271 | Abstract 177: Disruption of the MDM2-p53 interaction strongly potentiates p53-dependent apoptosis in cisplatin resistant human testicular carcinoma cells via the Fas/FasL pathway. , 2011, , . | | 0 |
| 272 | Bioinformatics and Statistics: LC-MS(/MS) Data Preprocessing for Biomarker Discovery. RSC Drug Discovery Series, 2013, , 199-225. | 0.3 | 0 |
| 273 | Cigarette smoking acutely decreases the serum levels of the COPD biomarker sRAGE. , 2018, , . | | 0 |
| 274 | Cigarette smoking prior to blood sampling acutely affects serum levels of the chronic obstructive pulmonary disease biomarker surfactant protein D. Clinical Chemistry and Laboratory Medicine, 2020, 58, e138-e141. | 2.3 | 0 |
| 275 | Large molecule bioanalysis by LC-MS: beyond simply quantifying. Bioanalysis, 2022, 14, 397-400. | 1.5 | 0 |