

Amanda B Hummon

List of Publications by Year in descending order

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Version: 2024-02-01

80
papers

3,522
citations

117571

34
h-index

143943

57
g-index

81
all docs

81
docs citations

81
times ranked

5046
citing authors

#	ARTICLE	IF	CITATIONS
1	From the Genome to the Proteome: Uncovering Peptides in the Apis Brain. <i>Science</i> , 2006, 314, 647-649.	6.0	309
2	Proteomic Challenges: Sample Preparation Techniques for Microgram-Quantity Protein Analysis from Biological Samples. <i>International Journal of Molecular Sciences</i> , 2015, 16, 3537-3563.	1.8	225
3	Isolation and solubilization of proteins after TRIzol® extraction of RNA and DNA from patient material following prolonged storage. <i>BioTechniques</i> , 2007, 42, 467-472.	0.8	210
4	Discovering new invertebrate neuropeptides using mass spectrometry. <i>Mass Spectrometry Reviews</i> , 2006, 25, 77-98.	2.8	164
5	Comparison of In-Solution, FASP, and S-Trap Based Digestion Methods for Bottom-Up Proteomic Studies. <i>Journal of Proteome Research</i> , 2018, 17, 2480-2490.	1.8	132
6	Evaluation of Therapeutics in Three-Dimensional Cell Culture Systems by MALDI Imaging Mass Spectrometry. <i>Analytical Chemistry</i> , 2013, 85, 6295-6302.	3.2	111
7	Gene Expression Profiling Reveals a Massive, Aneuploidy-Dependent Transcriptional Deregulation and Distinct Differences between Lymph Node-Negative and Lymph Node-Positive Colon Carcinomas. <i>Cancer Research</i> , 2007, 67, 41-56.	0.4	108
8	Imaging Mass Spectrometry of Three-Dimensional Cell Culture Systems. <i>Analytical Chemistry</i> , 2011, 83, 8794-8801.	3.2	91
9	Imaging mass spectrometry: From tissue sections to cell cultures. <i>Advanced Drug Delivery Reviews</i> , 2013, 65, 1039-1055.	6.6	91
10	Comparing Multistep Immobilized Metal Affinity Chromatography and Multistep TiO ₂ Methods for Phosphopeptide Enrichment. <i>Analytical Chemistry</i> , 2015, 87, 8837-8844.	3.2	76
11	Integrative genomics reveals mechanisms of copy number alterations responsible for transcriptional deregulation in colorectal cancer. <i>Genes Chromosomes and Cancer</i> , 2009, 48, 1002-1017.	1.5	75
12	Mass spectrometry for the discovery of biomarkers of sepsis. <i>Molecular BioSystems</i> , 2017, 13, 648-664.	2.9	72
13	Characterization of Aplysia Enticin and Temptin, Two Novel Water-borne Protein Pheromones That Act in Concert with Attractin to Stimulate Mate Attraction. <i>Journal of Biological Chemistry</i> , 2004, 279, 25614-25622.	1.6	71
14	Chromosomal Breakpoints in Primary Colon Cancer Cluster at Sites of Structural Variants in the Genome. <i>Cancer Research</i> , 2008, 68, 1284-1295.	0.4	71
15	MALDI Mass Spectrometry Imaging for Evaluation of Therapeutics in Colorectal Tumor Organoids. <i>Journal of the American Society for Mass Spectrometry</i> , 2018, 29, 516-526.	1.2	71
16	Genetic Amplification of the NOTCH Modulator LNX2 Upregulates the WNT/ β -Catenin Pathway in Colorectal Cancer. <i>Cancer Research</i> , 2013, 73, 2003-2013.	0.4	68
17	Drug penetration and metabolism in 3D cell cultures treated in a 3D printed fluidic device: assessment of irinotecan via MALDI imaging mass spectrometry. <i>Proteomics</i> , 2016, 16, 1814-1821.	1.3	67
18	Analyzing Liposomal Drug Delivery Systems in Three-Dimensional Cell Culture Models Using MALDI Imaging Mass Spectrometry. <i>Analytical Chemistry</i> , 2017, 89, 8453-8458.	3.2	64

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19	Correlated mass spectrometry imaging and confocal Raman microscopy for studies of three-dimensional cell culture sections. <i>Analyst</i> , The, 2014, 139, 4578.	1.7	61
20	Bridging Neuropeptidomics and Genomics with Bioinformatics:Â Prediction of Mammalian Neuropeptide Prohormone Processing. <i>Journal of Proteome Research</i> , 2006, 5, 1162-1167.	1.8	60
21	Mass Spectrometry Imaging of Therapeutics from Animal Models to Three-Dimensional Cell Cultures. <i>Analytical Chemistry</i> , 2015, 87, 9508-9519.	3.2	60
22	Rightâ€side and leftâ€side colon cancer follow different pathways to relapse. <i>Molecular Carcinogenesis</i> , 2012, 51, 411-421.	1.3	54
23	Quantitative Proteomic and Phosphoproteomic Comparison of 2D and 3D Colon Cancer Cell Culture Models. <i>Journal of Proteome Research</i> , 2016, 15, 4265-4276.	1.8	52
24	Considerations for MALDI-Based Quantitative Mass Spectrometry Imaging Studies. <i>Journal of Proteome Research</i> , 2020, 19, 3620-3630.	1.8	52
25	Over 2300 Phosphorylated Peptide Identifications with Single-Shot Capillary Zone Electrophoresis-Tandem Mass Spectrometry in a 100 min Separation. <i>Analytical Chemistry</i> , 2015, 87, 9532-9537.	3.2	47
26	Chemical Imaging of Platinum-Based Drugs and their Metabolites. <i>Scientific Reports</i> , 2016, 6, 38507.	1.6	46
27	Effects of the miR-143/-145 MicroRNA Cluster on the Colon Cancer Proteome and Transcriptome. <i>Journal of Proteome Research</i> , 2012, 11, 4744-4754.	1.8	45
28	Systems-wide RNAi analysis of CASP8AP2/FLASH shows transcriptional deregulation of the replication-dependent histone genes and extensive effects on the transcriptome of colorectal cancer cells. <i>Molecular Cancer</i> , 2012, 11, 1.	7.9	42
29	Combination of Multistep IMAC Enrichment with High-pH Reverse Phase Separation for In-Depth Phosphoproteomic Profiling. <i>Journal of Proteome Research</i> , 2013, 12, 4176-4186.	1.8	42
30	A genomic strategy for the functional validation of colorectal cancer genes identifies potential therapeutic targets. <i>International Journal of Cancer</i> , 2011, 128, 1069-1079.	2.3	41
31	Comparison of bottom-up proteomic approaches for LC-MS analysis of complex proteomes. <i>Analytical Methods</i> , 2013, 5, 4615.	1.3	41
32	MALDI-MSI of Immunotherapy: Mapping the EGFR-Targeting Antibody Cetuximab in 3D Colon-Cancer Cell Cultures. <i>Analytical Chemistry</i> , 2018, 90, 14156-14164.	3.2	40
33	From Precursor to Final Peptides:Â A Statistical Sequence-Based Approach to Predicting Prohormone Processing. <i>Journal of Proteome Research</i> , 2003, 2, 650-656.	1.8	39
34	Peer Reviewed: The Chemistry of Thought: Neurotransmitters in the Brain. <i>Analytical Chemistry</i> , 2004, 76, 120 A-128 A.	3.2	37
35	iTRAQ Quantitative Proteomic Profiling and MALDIâ€MSI of Colon Cancer Spheroids Treated with Combination Chemotherapies in a 3D Printed Fluidic Device. <i>Analytical Chemistry</i> , 2018, 90, 1423-1430.	3.2	34
36	Sample Preparation Strategies for Mass Spectrometry Imaging of 3D Cell Culture Models. <i>Journal of Visualized Experiments</i> , 2014, , .	0.2	33

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37	Nutrient restriction of glucose or serum results in similar proteomic expression changes in 3D colon cancer cell cultures. <i>Nutrition Research</i> , 2016, 36, 1068-1080.	1.3	31
38	Assessing chemotherapeutic effectiveness using a paper-based tumor model. <i>Analyst, The</i> , 2017, 142, 2819-2827.	1.7	29
39	Glucose Restriction Combined with Autophagy Inhibition and Chemotherapy in HCT 116 Spheroids Decreases Cell Clonogenicity and Viability Regulated by Tumor Suppressor Genes. <i>Journal of Proteome Research</i> , 2017, 16, 3009-3018.	1.8	29
40	Comparative label-free LC-MS/MS analysis of colorectal adenocarcinoma and metastatic cells treated with 5-fluorouracil. <i>Proteomics</i> , 2012, 12, 1928-1937.	1.3	28
41	Multicellular Tumor Spheroids Combined with Mass Spectrometric Histone Analysis To Evaluate Epigenetic Drugs. <i>Analytical Chemistry</i> , 2017, 89, 2773-2781.	3.2	27
42	Capillary Zone Electrophoresis-Tandem Mass Spectrometry for Large-Scale Phosphoproteomics with the Production of over 11,000 Phosphopeptides from the Colon Carcinoma HCT116 Cell Line. <i>Analytical Chemistry</i> , 2019, 91, 2201-2208.	3.2	27
43	Proteomic and Functional Investigation of the Colon Cancer Relapse-Associated Genes NOX4 and ITGA3. <i>Journal of Proteome Research</i> , 2014, 13, 4910-4918.	1.8	26
44	Quantitative Determination of Irinotecan and the Metabolite SN-38 by Nanoflow Liquid Chromatography-Tandem Mass Spectrometry in Different Regions of Multicellular Tumor Spheroids. <i>Journal of the American Society for Mass Spectrometry</i> , 2015, 26, 577-586.	1.2	26
45	Single Cell Metabolic Profiling of Tumor Mimics. <i>Analytical Chemistry</i> , 2013, 85, 8910-8918.	3.2	22
46	ColoType: a forty gene signature for consensus molecular subtyping of colorectal cancer tumors using whole-genome assay or targeted RNA-sequencing. <i>Scientific Reports</i> , 2020, 10, 12123.	1.6	22
47	Discovery of leucokinin-like neuropeptides that modulate a specific parameter of feeding motor programs in the molluscan model, <i>Aplysia</i> . <i>Journal of Biological Chemistry</i> , 2017, 292, 18775-18789.	1.6	20
48	Induced Chromosomal Aneuploidy Results in Global and Consistent Deregulation of the Transcriptome of Cancer Cells. <i>Neoplasia</i> , 2019, 21, 721-729.	2.3	19
49	Developing a Drug Screening Platform: MALDI-Mass Spectrometry Imaging of Paper-Based Cultures. <i>Analytical Chemistry</i> , 2019, 91, 15370-15376.	3.2	19
50	Chemometric analysis of MALDI mass spectrometric images of three-dimensional cell culture systems. <i>Analytical Methods</i> , 2015, 7, 7208-7219.	1.3	18
51	Phosphoproteomics of colon cancer metastasis: comparative mass spectrometric analysis of the isogenic primary and metastatic cell lines SW480 and SW620. <i>Analytical and Bioanalytical Chemistry</i> , 2017, 409, 1749-1763.	1.9	18
52	Cyclic Peptidyl Inhibitors against CAL/CFTR Interaction for Treatment of Cystic Fibrosis. <i>Journal of Medicinal Chemistry</i> , 2020, 63, 15773-15784.	2.9	18
53	Discovering new neuropeptides using single-cell mass spectrometry. <i>TrAC - Trends in Analytical Chemistry</i> , 2003, 22, 515-521.	5.8	17
54	Bottom-up proteomic analysis of single HCT 116 colon carcinoma multicellular spheroids. <i>Rapid Communications in Mass Spectrometry</i> , 2015, 29, 654-658.	0.7	17

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55	Proteomics of Colorectal Cancer: Tumors, Organoids, and Cell Cultures—A Minireview. <i>Frontiers in Molecular Biosciences</i> , 2020, 7, 604492.	1.6	17
56	MS imaging of multicellular tumor spheroids and organoids as an emerging tool for personalized medicine and drug discovery. <i>Journal of Biological Chemistry</i> , 2021, 297, 101139.	1.6	17
57	Comparative LC-MS/MS analysis of optimal cutting temperature (OCT) compound removal for the study of mammalian proteomes. <i>Analyst, The</i> , 2013, 138, 6380.	1.7	16
58	Advances in stable isotope labeling: dynamic labeling for spatial and temporal proteomic analysis. <i>Molecular Omics</i> , 2022, 18, 579-590.	1.4	13
59	A novel prohormone processing site in <i>Aplysia californica</i> : the Leu-Leu rule. <i>Journal of Neurochemistry</i> , 2002, 82, 1398-1405.	2.1	12
60	Chemical Analysis of Morphological Changes in Lysophosphatidic Acid-Treated Ovarian Cancer Cells. <i>Scientific Reports</i> , 2017, 7, 15295.	1.6	12
61	Aneuploidy, oncogene amplification and epithelial to mesenchymal transition define spontaneous transformation of murine epithelial cells. <i>Carcinogenesis</i> , 2013, 34, 1929-1939.	1.3	11
62	Evaluation of the mirn23a Cluster through an iTRAQ-based Quantitative Proteomic Approach. <i>Journal of Proteome Research</i> , 2016, 15, 1497-1505.	1.8	11
63	Quantitative evaluation of liposomal doxorubicin and its metabolites in spheroids. <i>Analytical and Bioanalytical Chemistry</i> , 2019, 411, 7087-7094.	1.9	11
64	In situ metabolite and lipid analysis of GluN2D ^{-/-} and wild-type mice after ischemic stroke using MALDI MSI. <i>Analytical and Bioanalytical Chemistry</i> , 2020, 412, 6275-6285.	1.9	11
65	A Peptidyl Inhibitor that Blocks Calcineurin–NFAT Interaction and Prevents Acute Lung Injury. <i>Journal of Medicinal Chemistry</i> , 2020, 63, 12853-12872.	2.9	9
66	How to Apply Supervised Machine Learning Tools to MS Imaging Files: Case Study with Cancer Spheroids Undergoing Treatment with the Monoclonal Antibody Cetuximab. <i>Journal of the American Society for Mass Spectrometry</i> , 2020, 31, 1350-1357.	1.2	9
67	Spatial Stable Isotopic Labeling by Amino Acids in Cell Culture: Pulse-Chase Labeling of Three-Dimensional Multicellular Spheroids for Global Proteome Analysis. <i>Analytical Chemistry</i> , 2021, 93, 15990-15999.	3.2	9
68	Magnetic bead-based peptide extraction methodology for tissue imaging. <i>Analyst, The</i> , 2018, 143, 133-140.	1.7	7
69	Calcitriol Supplementation Causes Decreases in Tumorigenic Proteins and Different Proteomic and Metabolomic Signatures in Right versus Left-Sided Colon Cancer. <i>Metabolites</i> , 2018, 8, 5.	1.3	7
70	Employing proteomics to understand the effects of nutritional intervention in cancer treatment. <i>Analytical and Bioanalytical Chemistry</i> , 2018, 410, 6371-6386.	1.9	6
71	Co-culturing multicellular tumor models: Modeling the tumor microenvironment and analysis techniques. <i>Proteomics</i> , 2021, 21, 2000103.	1.3	6
72	Quantitative proteomic analysis of murine white adipose tissue for peritoneal cancer metastasis. <i>Analytical and Bioanalytical Chemistry</i> , 2018, 410, 1583-1594.	1.9	5

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73	Combined Short-Term Glucose Starvation and Chemotherapy in 3D Colorectal Cancer Cell Culture Decreases 14-3-3 Family Protein Expression and Phenotypic Response to Therapy. <i>Journal of the American Society for Mass Spectrometry</i> , 2018, 29, 2012-2022.	1.2	4
74	Selective, Bead-Based Global Peptide Capture Using a Bifunctional Cross-Linker. <i>Analytical Chemistry</i> , 2013, 85, 10675-10679.	3.2	3
75	Electroblotting through a tryptic membrane for LC-MS/MS analysis of proteins separated in electrophoretic gels. <i>Analyst, The</i> , 2020, 145, 7724-7735.	1.7	3
76	Electroblotting through Enzymatic Membranes to Enhance Molecular Tissue Imaging. <i>Journal of the American Society for Mass Spectrometry</i> , 2021, 32, 1689-1699.	1.2	3
77	Mass spectrometry-based phosphoproteomics in cancer research. <i>Frontiers in Biology</i> , 2012, 7, 566-586.	0.7	1
78	Electronic Cigarettes and the Lung Proteome. <i>American Journal of Respiratory and Critical Care Medicine</i> , 2018, 198, 1350-1351.	2.5	1
79	Mass spectrometric investigations of caloric restriction mimetics. <i>Proteomics</i> , 2021, 21, e2000121.	1.3	1
80	Virtual Issue Highlighting Selected Women Analytical Chemists. <i>Analytical Chemistry</i> , 2018, 90, 1433-1433.	3.2	0