

Peter Hoffmann

List of Publications by Year in Descending Order

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The third column is the impact factor (IF) of the journal, and the fourth column is the number of citations of the article.

120
papers

3,037
citations

33
h-index

49
g-index

134
ext. papers

3,494
ext. citations

4.4
avg. IF

5.09
L-index

#	Paper	IF	Citations
120	Chemoresistant Cancer Cell Lines Are Characterized by Migratory, Amino Acid Metabolism, Protein Catabolism and IFN1 Signalling Perturbations. <i>Cancers</i> , 2022 , 14, 2763	6.6	1
119	Cancer Tissue Classification Using Supervised Machine Learning Applied to MALDI Mass Spectrometry Imaging. <i>Cancers</i> , 2021 , 13,	6.6	4
118	Novel technical developments in mass spectrometry imaging in 2020: A mini review. <i>Analytical Science Advances</i> , 2021 , 2, 225-237	1.1	4
117	In-House Packed Porous Graphitic Carbon Columns for Liquid Chromatography-Mass Spectrometry Analysis of Glycans. <i>Frontiers in Chemistry</i> , 2021 , 9, 653959	5	3
116	Gelatin-coated indium tin oxide slides improve human cartilage-bone tissue adherence and N-glycan signal intensity for mass spectrometry imaging. <i>Analytical and Bioanalytical Chemistry</i> , 2021 , 413, 2675-2682	4.4	5
115	Altered N-linked glycosylation in endometrial cancer. <i>Analytical and Bioanalytical Chemistry</i> , 2021 , 413, 2721-2733	4.4	4
114	Native disulphide-linked dimers facilitate amyloid fibril formation by bovine milk β casein. <i>Biophysical Chemistry</i> , 2021 , 270, 106530	3.5	3
113	Diagnostic Value of Plasma Annexin A2 in Early-Stage High-Grade Serous Ovarian Cancer. <i>Diagnostics</i> , 2021 , 11,	3.8	2
112	Proteomic Analysis of Pre-Invasive Serous Lesions of the Endometrium and Fallopian Tube Reveals Their Metastatic Potential. <i>Frontiers in Oncology</i> , 2020 , 10, 523989	5.3	1
111	Ovarian Blood Sampling Identifies Junction Plakoglobin as a Novel Biomarker of Early Ovarian Cancer. <i>Frontiers in Oncology</i> , 2020 , 10, 1767	5.3	2
110	Uncovering Tumor-Stroma Inter-relationships Using MALDI Mass Spectrometry Imaging. <i>Journal of Proteome Research</i> , 2020 , 19, 4093-4103	5.6	7
109	Differential proteome analysis of the leaves of lead hyperaccumulator, <i>Rhoeo discolor</i> (L. Her.) Hance. <i>Journal of Mass Spectrometry</i> , 2020 , 56, e4689	2.2	2
108	Rapid separation and identification of beer spoilage bacteria by inertial microfluidics and MALDI-TOF mass spectrometry. <i>Lab on A Chip</i> , 2019 , 19, 1961-1970	7.2	35
107	Protein Paucimannosylation Is an Enriched N-Glycosylation Signature of Human Cancers. <i>Proteomics</i> , 2019 , 19, e1900010	4.8	27
106	MALDI Mass Spectrometry Imaging of Early- and Late-Stage Serous Ovarian Cancer Tissue Reveals Stage-Specific N-Glycans. <i>Proteomics</i> , 2019 , 19, e1800482	4.8	27
105	The Emerging Role of Cytoskeletal Proteins as Reliable Biomarkers. <i>Proteomics</i> , 2019 , 19, e1800483	4.8	3
104	Matrix Assisted Laser Desorption/Ionization Mass Spectrometry Imaging (MALDI MSI) for Monitoring of Drug Response in Primary Cancer Spheroids. <i>Proteomics</i> , 2019 , 19, e1900146	4.8	9

103	Egg White as a Quality Control in Matrix-Assisted Laser Desorption/Ionization Mass Spectrometry Imaging (MALDI-MSI). <i>Analytical Chemistry</i> , 2019 , 91, 14846-14853	7.8	5
102	A Combined Free-Flow Electrophoresis and DIGE Approach to Compare Proteins in Complex Biological Samples. <i>Methods in Molecular Biology</i> , 2019 , 1855, 403-415	1.4	2
101	Translating N-Glycan Analytical Applications into Clinical Strategies for Ovarian Cancer. <i>Proteomics - Clinical Applications</i> , 2019 , 13, e1800099	3.1	7
100	Targeted proteomic analysis of cognitive dysfunction in remitted major depressive disorder: Opportunities of multi-omics approaches towards predictive, preventive, and personalized psychiatry. <i>Journal of Proteomics</i> , 2018 , 188, 63-70	3.9	14
99	Balancing sufficiency and impact in reporting standards for mass spectrometry imaging experiments. <i>GigaScience</i> , 2018 , 7,	7.6	5
98	Mass Spectrometry Analyses of Multicellular Tumor Spheroids. <i>Proteomics - Clinical Applications</i> , 2018 , 12, e1700124	3.1	15
97	Raw -glycan mass spectrometry imaging data on formalin-fixed mouse kidney. <i>Data in Brief</i> , 2018 , 21, 185-188	1.2	2
96	Applications of Mass Spectrometry Imaging to Cancer. <i>Advances in Cancer Research</i> , 2017 , 134, 27-66	5.9	24
95	N-Glycan matrix-assisted laser desorption/ionization mass spectrometry imaging protocol for formalin-fixed paraffin-embedded tissues. <i>Rapid Communications in Mass Spectrometry</i> , 2017 , 31, 825-841	7.2	15
94	The changing face of microbial quality control practices in the brewing industry: Introducing mass spectrometry proteomic fingerprinting for microbial identification. <i>Journal of the Institute of Brewing</i> , 2017 , 123, 373-387	2	7
93	Proteomic comparisons of opaque and transparent variants of <i>Streptococcus pneumoniae</i> by two dimensional-differential gel electrophoresis. <i>Scientific Reports</i> , 2017 , 7, 2453	4.9	3
92	Proteome Analysis of <i>Drosophila</i> Mutants Identifies a Regulatory Role for 14-3-3 σ in Metabolic Pathways. <i>Journal of Proteome Research</i> , 2017 , 16, 1976-1987	5.6	2
91	Annexin A2 and alpha actinin 4 expression correlates with metastatic potential of primary endometrial cancer. <i>Biochimica Et Biophysica Acta - Proteins and Proteomics</i> , 2017 , 1865, 846-857	4	18
90	Keratin 5 overexpression is associated with serous ovarian cancer recurrence and chemotherapy resistance. <i>Oncotarget</i> , 2017 , 8, 17819-17832	3.3	30
89	N-glycan MALDI Imaging Mass Spectrometry on Formalin-Fixed Paraffin-Embedded Tissue Enables the Delineation of Ovarian Cancer Tissues. <i>Molecular and Cellular Proteomics</i> , 2016 , 15, 3003-16	7.6	75
88	Proteomic responses to gold(III)-toxicity in the bacterium <i>Cupriavidus metallidurans</i> CH34. <i>Metallomics</i> , 2016 , 8, 1204-1216	4.5	25
87	Proteomics of endometrial cancer diagnosis, treatment, and prognosis. <i>Proteomics - Clinical Applications</i> , 2016 , 10, 217-29	3.1	16
86	Isolation and identification of <i>Enterococcus faecalis</i> membrane proteins using membrane shaving, 1D SDS/PAGE, and mass spectrometry. <i>FEBS Open Bio</i> , 2016 , 6, 586-93	2.7	11

85	Identification of beer spoilage microorganisms using the MALDI Biotyper platform. <i>Applied Microbiology and Biotechnology</i> , 2016 , 100, 2761-73	5.7	21
84	Dynamic Self-Referencing Approach to Whispering Gallery Mode Biosensing and Its Application to Measurement within Undiluted Serum. <i>Analytical Chemistry</i> , 2016 , 88, 4036-40	7.8	21
83	MALDI Mass Spectrometry Imaging Reveals Decreased CK5 Levels in Vulvar Squamous Cell Carcinomas Compared to the Precursor Lesion Differentiated Vulvar Intraepithelial Neoplasia. <i>International Journal of Molecular Sciences</i> , 2016 , 17,	6.3	9
82	The use of MALDI-MSI in the investigation of psychiatric and neurodegenerative disorders: A review. <i>Proteomics</i> , 2016 , 16, 1747-58	4.8	27
81	Lymph node metastasis of primary endometrial cancers: Associated proteins revealed by MALDI imaging. <i>Proteomics</i> , 2016 , 16, 1793-801	4.8	18
80	MALDI mass spectrometry imaging of N-glycans on tibial cartilage and subchondral bone proteins in knee osteoarthritis. <i>Proteomics</i> , 2016 , 16, 1736-41	4.8	33
79	Classification of MALDI-MS imaging data of tissue microarrays using canonical correlation analysis-based variable selection. <i>Proteomics</i> , 2016 , 16, 1731-5	4.8	8
78	Using whispering gallery mode micro lasers for biosensing within undiluted serum 2016 ,		1
77	Phosphorylation of NS5A Serine-235 is essential to hepatitis C virus RNA replication and normal replication compartment formation. <i>Virology</i> , 2016 , 491, 27-44	3.6	23
76	Novel IEF Peptide Fractionation Method Reveals a Detailed Profile of N-Terminal Acetylation in Chemotherapy-Responsive and -Resistant Ovarian Cancer Cells. <i>Journal of Proteome Research</i> , 2016 , 15, 4073-4081	5.6	6
75	Prolonged growth of a clinical Staphylococcus aureus strain selects for a stable small-colony-variant cell type. <i>Infection and Immunity</i> , 2015 , 83, 470-81	3.7	26
74	Transketolase is upregulated in metastatic peritoneal implants and promotes ovarian cancer cell proliferation. <i>Clinical and Experimental Metastasis</i> , 2015 , 32, 441-55	4.7	38
73	MALDI imaging mass spectrometry of N-linked glycans on formalin-fixed paraffin-embedded murine kidney. <i>Analytical and Bioanalytical Chemistry</i> , 2015 , 407, 2127-39	4.4	64
72	p84 forms a negative regulatory complex with p110 β to control PI3K β signalling during cell migration. <i>Immunology and Cell Biology</i> , 2015 , 93, 735-43	5	7
71	State of the art of 2D DIGE. <i>Proteomics - Clinical Applications</i> , 2015 , 9, 277-88	3.1	79
70	Proteomic developments in the analysis of formalin-fixed tissue. <i>Biochimica Et Biophysica Acta - Proteins and Proteomics</i> , 2015 , 1854, 559-80	4	74
69	Feature extraction for proteomics imaging mass spectrometry data. <i>Annals of Applied Statistics</i> , 2015 , 9,	2.1	8
68	Surface Plasmon Scattering in Exposed Core Optical Fiber for Enhanced Resolution Refractive Index Sensing. <i>Sensors</i> , 2015 , 15, 25090-102	3.8	66

67	MicroRNAs are part of the regulatory network that controls EGF induced apoptosis, including elements of the JAK/STAT pathway, in A431 cells. <i>PLoS ONE</i> , 2015 , 10, e0120337	3.7	19
66	Identification and validation of novel candidate protein biomarkers for the detection of human gastric cancer. <i>Biochimica Et Biophysica Acta - Proteins and Proteomics</i> , 2014 , 1844, 1051-8	4	33
65	High resolution two-dimensional electrophoresis of native proteins. <i>Electrophoresis</i> , 2014 , 35, 1893-902	3.6	12
64	Quantitative proteome profiling of CNS-infiltrating autoreactive CD4+ cells reveals selective changes during experimental autoimmune encephalomyelitis. <i>Journal of Proteome Research</i> , 2014 , 13, 3655-70	5.6	10
63	Immune derived opioidergic inhibition of viscerosensory afferents is decreased in Irritable Bowel Syndrome patients. <i>Brain, Behavior, and Immunity</i> , 2014 , 42, 191-203	16.6	40
62	Proteomics profiles from mass spectrometry. <i>Electronic Journal of Statistics</i> , 2014 , 8,	1.2	8
61	Comparative proteomic analysis implicates eEF2 as a novel target of PI3K in the MDA-MB-231 metastatic breast cancer cell line. <i>Proteome Science</i> , 2013 , 11, 4	2.6	5
60	Combined gene expression and proteomic analysis of EGF induced apoptosis in A431 cells suggests multiple pathways trigger apoptosis. <i>Apoptosis: an International Journal on Programmed Cell Death</i> , 2013 , 18, 1291-1305	5.4	21
59	Radiative-surface plasmon resonance for the detection of apolipoprotein E in medical diagnostics applications. <i>Nanomedicine: Nanotechnology, Biology, and Medicine</i> , 2013 , 9, 550-7	6	34
58	Multiplexing of radiative-surface plasmon resonance for the detection of gastric cancer biomarkers in a single optical fiber. <i>Sensors and Actuators B: Chemical</i> , 2013 , 183, 454-458	8.5	29
57	Matrix-assisted laser desorption/ionization imaging protocol for in situ characterization of tryptic peptide identity and distribution in formalin-fixed tissue. <i>Rapid Communications in Mass Spectrometry</i> , 2013 , 27, 655-70	2.2	52
56	Tryptic peptide reference data sets for MALDI imaging mass spectrometry on formalin-fixed ovarian cancer tissues. <i>Journal of Proteome Research</i> , 2013 , 12, 308-15	5.6	46
55	Fluorescent polymer coated capillaries as optofluidic refractometric sensors. <i>Optics Express</i> , 2013 , 21, 11492-505	3.3	34
54	Annexin A2 is regulated by ovarian cancer-peritoneal cell interactions and promotes metastasis. <i>Oncotarget</i> , 2013 , 4, 1199-211	3.3	47
53	2D-DIGE analysis of sera from transgenic mouse models reveals novel candidate protein biomarkers for human gastric cancer. <i>Journal of Proteomics</i> , 2012 , 77, 40-58	3.9	24
52	Differential roles for the p101 and p84 regulatory subunits of PI3K in tumor growth and metastasis. <i>Oncogene</i> , 2012 , 31, 2350-61	9.2	42
51	Methionine oxidation enhances IκB kinase amyloid fibril formation. <i>Journal of Agricultural and Food Chemistry</i> , 2012 , 60, 4144-55	5.7	24
50	Anion-π Interactions of hexaaryl[3]radialenes. <i>Journal of Physical Chemistry A</i> , 2012 , 116, 8001-7	2.8	9

49	Potential mechanisms of the acute coronary syndrome presentation in patients with the coronary slow flow phenomenon - insight from a plasma proteomic approach. <i>International Journal of Cardiology</i> , 2012 , 156, 84-91	3.2	21
48	Internal calibrants allow high accuracy peptide matching between MALDI imaging MS and LC-MS/MS. <i>Journal of Proteomics</i> , 2012 , 75, 5093-5105	3.9	41
47	Visualisation in imaging mass spectrometry using the minimum noise fraction transform. <i>BMC Research Notes</i> , 2012 , 5, 419	2.3	6
46	Deciphering the molecular nature of ovarian cancer biomarker CA125. <i>International Journal of Molecular Sciences</i> , 2012 , 13, 10568-82	6.3	19
45	Comparative 2D DIGE analysis of the depleted serum proteome for biomarker discovery. <i>Methods in Molecular Biology</i> , 2012 , 854, 207-20	1.4	4
44	A combined free flow electrophoresis and DIGE approach to compare proteins in complex biological samples. <i>Methods in Molecular Biology</i> , 2012 , 869, 135-46	1.4	
43	Detection and measurement of carbohydrate deficient transferrin in serum using immuno-capture mass spectrometry: diagnostic applications for annual ryegrass toxicity and corynetoxin exposure. <i>Research in Veterinary Science</i> , 2012 , 93, 611-7	2.5	3
42	Cytokine receptor signaling activates an IKK-dependent phosphorylation of PUMA to prevent cell death. <i>Cell Death and Differentiation</i> , 2012 , 19, 633-41	12.7	23
41	Methods for identification of CA125 from ovarian cancer ascites by high resolution mass spectrometry. <i>International Journal of Molecular Sciences</i> , 2012 , 13, 9942-58	6.3	20
40	Increased Phospho-Keratin 8 Isoforms in Colorectal Tumors Associated with EGFR Pathway Activation and Reduced Apoptosis 2012 , 2012, 706545		3
39	Evaluating the efficacy of subcellular fractionation of blast cells using live cell labeling and 2D DIGE. <i>Methods in Molecular Biology</i> , 2012 , 854, 319-32	1.4	
38	Exploring the immunoproteome for ovarian cancer biomarker discovery. <i>International Journal of Molecular Sciences</i> , 2011 , 12, 410-28	6.3	6
37	Butyrate-induced apoptosis in HCT116 colorectal cancer cells includes induction of a cell stress response. <i>Journal of Proteome Research</i> , 2011 , 10, 1860-9	5.6	60
36	The tumor suppressor protein DLC1 is regulated by PKD-mediated GAP domain phosphorylation. <i>Experimental Cell Research</i> , 2011 , 317, 496-503	4.2	16
35	A combined free-flow electrophoresis and DIGE approach to identify proteins regulated by butyrate in HT29 cells. <i>Proteomics</i> , 2011 , 11, 964-71	4.8	10
34	Can collision-induced negative-ion fragmentations of [M-H] ⁽⁻⁾ anions be used to identify phosphorylation sites in peptides?. <i>Rapid Communications in Mass Spectrometry</i> , 2011 , 25, 3537-48	2.2	8
33	Transforming growth factor-beta-induced protein secreted by peritoneal cells increases the metastatic potential of ovarian cancer cells. <i>International Journal of Cancer</i> , 2011 , 128, 1570-84	7.5	58
32	MALDI Imaging Mass Spectrometry (MALDI-IMS)-application of spatial proteomics for ovarian cancer classification and diagnosis. <i>International Journal of Molecular Sciences</i> , 2011 , 12, 773-94	6.3	80

31	Tyrosine phosphorylation enrichment and subsequent analysis by MALDI-TOF/TOF MS/MS and LC-ESI-IT-MS/MS. <i>Current Protocols in Protein Science</i> , 2010 , Chapter 13, Unit13.11	3.1	3
30	Proteomic characterization of mesenchymal stem cell-like populations derived from ovine periodontal ligament, dental pulp, and bone marrow: analysis of differentially expressed proteins. <i>Stem Cells and Development</i> , 2010 , 19, 1485-99	4.4	60
29	Central role of manganese in regulation of stress responses, physiology, and metabolism in <i>Streptococcus pneumoniae</i> . <i>Journal of Bacteriology</i> , 2010 , 192, 4489-97	3.5	79
28	Citric acid antigen retrieval (CAAR) for tryptic peptide imaging directly on archived formalin-fixed paraffin-embedded tissue. <i>Journal of Proteome Research</i> , 2010 , 9, 4315-28	5.6	91
27	EZYprep LC-coupled MALDI-TOF/TOF MS: an improved matrix spray application for phosphopeptide characterisation. <i>Proteomics</i> , 2010 , 10, 2516-30	4.8	6
26	14-3-3:Shc scaffolds integrate phosphoserine and phosphotyrosine signaling to regulate phosphatidylinositol 3-kinase activation and cell survival. <i>Journal of Biological Chemistry</i> , 2009 , 284, 12080-90	5.4	27
25	A sensitive magnetic bead method for the detection and identification of tyrosine phosphorylation in proteins by MALDI-TOF/TOF MS. <i>Proteomics</i> , 2009 , 9, 3047-57	4.8	18
24	Negative ion fragmentations of deprotonated peptides containing post-translational modifications: diphosphorylated systems containing Ser, Thr and Tyr. A characteristic phosphate/phosphate cyclisation. A joint experimental and theoretical study. <i>Rapid Communications in Mass Spectrometry</i> , 2009 , 23, 1993-2002	2.2	7
23	Negative ion fragmentations of deprotonated peptides. The unusual case of isoAsp: a joint experimental and theoretical study. Comparison with positive ion cleavages. <i>Rapid Communications in Mass Spectrometry</i> , 2009 , 23, 1993-2002	2.2	12
22	Optimal preparation methods for automated matrix-assisted laser desorption/ionization time-of-flight mass spectrometry profiling of low molecular weight proteins and peptides. <i>Rapid Communications in Mass Spectrometry</i> , 2009 , 23, 2656-62	2.2	24
21	Rapid drug detection in oral samples by porous silicon assisted laser desorption/ionization mass spectrometry. <i>Rapid Communications in Mass Spectrometry</i> , 2009 , 23, 3543-8	2.2	32
20	Dephosphorylation of alpha(s)- and beta-caseins and its effect on chaperone activity: a structural and functional investigation. <i>Journal of Agricultural and Food Chemistry</i> , 2009 , 57, 5956-64	5.7	36
19	Identifying candidate serum biomarkers of exposure to tunicamycins in rats using two-dimensional electrophoresis. <i>Journal of Proteome Research</i> , 2009 , 8, 2812-26	5.6	4
18	Proteomic analysis of butyrate effects and loss of butyrate sensitivity in HT29 colorectal cancer cells. <i>Journal of Proteome Research</i> , 2009 , 8, 1220-7	5.6	24
17	Antibody immobilization within glass microstructured fibers: a route to sensitive and selective biosensors. <i>Optics Express</i> , 2008 , 16, 18514-23	3.3	53
16	Glutathionyl haemoglobin is not increased in diabetes nor related to glycaemia, complications, dyslipidaemia, inflammation or other measures of oxidative stress. <i>Diabetes Research and Clinical Practice</i> , 2008 , 80, e1-3	7.4	15
15	Antibody immobilization within glass microstructured fibers: a route to sensitive and selective biosensors 2008 ,		1
14	Dissociation from the oligomeric state is the rate-limiting step in fibril formation by kappa-casein. <i>Journal of Biological Chemistry</i> , 2008 , 283, 9012-22	5.4	66

13	Characteristic negative ion fragmentations of deprotonated peptides containing post-translational modifications: mono-phosphorylated Ser, Thr and Tyr. A joint experimental and theoretical study. <i>Rapid Communications in Mass Spectrometry</i> , 2008 , 22, 3305-12	2.2	10
12	Phosphorylation of StarD10 on serine 284 by casein kinase II modulates its lipid transfer activity. <i>Journal of Biological Chemistry</i> , 2007 , 282, 22492-8	5.4	13
11	Enrichment of multiphosphorylated peptides by immobilized metal affinity chromatography using Ga(III)- and Fe(III)-complexes. <i>Protein and Peptide Letters</i> , 2007 , 14, 489-96	1.9	29
10	Detection of quantum-dot labelled proteins using soft glass microstructured optical fibers. <i>Optics Express</i> , 2007 , 15, 17819-26	3.3	71
9	Fragmentation behavior of glycated peptides derived from D-glucose, D-fructose and D-ribose in tandem mass spectrometry. <i>Journal of Mass Spectrometry</i> , 2006 , 41, 1459-69	2.2	90
8	Breast cancer protein StarD10 identified by three-dimensional separation using free-flow electrophoresis, reversed-phase high-performance liquid chromatography, and sodium dodecyl sulfate-polyacrylamide gel electrophoresis. <i>Electrophoresis</i> , 2005 , 26, 1029-37	3.6	6
7	Proteomic tracking of serum protein isoforms as screening biomarkers of ovarian cancer. <i>Proteomics</i> , 2005 , 5, 4625-36	4.8	82
6	The phosphoprotein StarD10 is overexpressed in breast cancer and cooperates with ErbB receptors in cellular transformation. <i>Cancer Research</i> , 2004 , 64, 3538-44	10.1	32
5	Proteomic-based identification of haptoglobin-1 precursor as a novel circulating biomarker of ovarian cancer. <i>British Journal of Cancer</i> , 2004 , 91, 129-40	8.7	99
4	Identification of a parathyroid hormone in the fish <i>Fugu rubripes</i> . <i>Journal of Bone and Mineral Research</i> , 2003 , 18, 1326-31	6.3	54
3	Continuous free-flow electrophoresis separation of cytosolic proteins from the human colon carcinoma cell line LIM 1215: a non two-dimensional gel electrophoresis-based proteome analysis strategy. <i>Proteomics</i> , 2001 , 1, 807-18	4.8	119
2	Chiral capillary electrophoresis as predictor for separation of drug enantiomers in continuous flow zone electrophoresis. <i>Journal of Chromatography A</i> , 2000 , 895, 51-65	4.5	18
1	Separation and purification of methadone enantiomers by continuous- and interval-flow electrophoresis. <i>Analytical Chemistry</i> , 1999 , 71, 1840-50	7.8	44