

Carsten Hopf

List of Publications by Year in descending order

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Version: 2024-02-01

88
papers

7,888
citations

109264

35
h-index

51562

86
g-index

100
all docs

100
docs citations

100
times ranked

12712
citing authors

#	ARTICLE	IF	CITATIONS
1	A new update of MALDI-TOF mass spectrometry in lipid research. <i>Progress in Lipid Research</i> , 2022, 86, 101145.	5.3	30
2	LPS-induced lipid alterations in microglia revealed by MALDI mass spectrometry-based cell fingerprinting in neuroinflammation studies. <i>Scientific Reports</i> , 2022, 12, 2908.	1.6	9
3	Structural amyloid plaque polymorphism is associated with distinct lipid accumulations revealed by trapped ion mobility mass spectrometry imaging. <i>Journal of Neurochemistry</i> , 2022, 160, 482-498.	2.1	17
4	Spatially resolved mass spectrometry analysis of amyloid plaque-associated lipids. <i>Journal of Neurochemistry</i> , 2021, 159, 330-342.	2.1	11
5	Recent developments of novel matrices and on-tissue chemical derivatization reagents for MALDI-MSI. <i>Analytical and Bioanalytical Chemistry</i> , 2021, 413, 2599-2617.	1.9	53
6	Batch Effects in MALDI Mass Spectrometry Imaging. <i>Journal of the American Society for Mass Spectrometry</i> , 2021, 32, 628-635.	1.2	26
7	Fast Nanoliter-Scale Cell Assays Using Droplet Microarray-Mass Spectrometry Imaging. <i>Advanced Biology</i> , 2021, 5, e2000279.	1.4	14
8	Tryptophan metabolism drives dynamic immunosuppressive myeloid states in IDH-mutant gliomas. <i>Nature Cancer</i> , 2021, 2, 723-740.	5.7	110
9	Following spatial $\text{A}\beta^2$ aggregation dynamics in evolving Alzheimer's disease pathology by imaging stable isotope labeling kinetics. <i>Science Advances</i> , 2021, 7, .	4.7	22
10	M2aiâ€”Interactive, fast, and memory-efficient analysis of 2D and 3D multi-modal mass spectrometry imaging data. <i>GigaScience</i> , 2021, 10, .	3.3	15
11	Tryptophan metabolism is inversely regulated in the tumor and blood of patients with glioblastoma. <i>Theranostics</i> , 2021, 11, 9217-9233.	4.6	16
12	Label-free cell assays to determine compound uptake or drug action using MALDI-TOF mass spectrometry. <i>Nature Protocols</i> , 2021, 16, 5533-5558.	5.5	12
13	Clinically Relevant OATP2B1 Inhibitors in Marketed Drug Space. <i>Molecular Pharmaceutics</i> , 2020, 17, 488-498.	2.3	9
14	Computational Analysis of Alzheimer Amyloid Plaque Composition in 2D- and Elastically Reconstructed 3D-MALDI MS Images. <i>Analytical Chemistry</i> , 2020, 92, 14484-14493.	3.2	15
15	IL4I1 Is a Metabolic Immune Checkpoint that Activates the AHR and Promotes Tumor Progression. <i>Cell</i> , 2020, 182, 1252-1270.e34.	13.5	259
16	Direct Automated MALDI Mass Spectrometry Analysis of Cellular Transporter Function: Inhibition of OATP2B1 Uptake by 294 Drugs. <i>Analytical Chemistry</i> , 2020, 92, 11851-11859.	3.2	8
17	Fast Quantification Without Conventional Chromatography, The Growing Power of Mass Spectrometry. <i>Analytical Chemistry</i> , 2020, 92, 8628-8637.	3.2	17
18	New Derivatization Reagent for Detection of free Thiol-groups in Metabolites and Proteins in Matrix-Assisted Laser Desorption/Ionization Mass Spectrometry Imaging. <i>Analytical Chemistry</i> , 2020, 92, 6224-6228.	3.2	21

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19	Quantitative Mass Spectrometry Imaging Reveals Mutation Status-independent Lack of Imatinib in Liver Metastases of Gastrointestinal Stromal Tumors. <i>Scientific Reports</i> , 2019, 9, 10698.	1.6	37
20	Mechanistic MALDI-TOF Cell-Based Assay for the Discovery of Potent and Specific Fatty Acid Synthase Inhibitors. <i>Cell Chemical Biology</i> , 2019, 26, 1322-1331.e4.	2.5	11
21	Bacterial immunogenic β -galactosylceramide identified in the murine large intestine: dependency on diet and inflammation. <i>Journal of Lipid Research</i> , 2019, 60, 1892-1904.	2.0	32
22	The Influence of Different Fat Sources on Steatohepatitis and Fibrosis Development in the Western Diet Mouse Model of Non-alcoholic Steatohepatitis (NASH). <i>Frontiers in Physiology</i> , 2019, 10, 770.	1.3	27
23	Advanced MALDI mass spectrometry imaging in pharmaceutical research and drug development. <i>Current Opinion in Biotechnology</i> , 2019, 55, 51-59.	3.3	202
24	Site-to-Site Reproducibility and Spatial Resolution in MALDI-MSI of Peptides from Formalin-Fixed Paraffin-Embedded Samples. <i>Proteomics - Clinical Applications</i> , 2019, 13, e1800029.	0.8	73
25	Spatial Distribution of Endogenous Tissue Protease Activity in Gastric Carcinoma Mapped by MALDI Mass Spectrometry Imaging. <i>Molecular and Cellular Proteomics</i> , 2019, 18, 151-161.	2.5	26
26	The combination of 2,5-dihydroxybenzoic acid and 2,5-dihydroxyacetophenone matrices for unequivocal assignment of phosphatidylethanolamine species in complex mixtures. <i>Analytical and Bioanalytical Chemistry</i> , 2018, 410, 2437-2447.	1.9	22
27	Fourier Transform Infrared Microscopy Enables Guidance of Automated Mass Spectrometry Imaging to Predefined Tissue Morphologies. <i>Scientific Reports</i> , 2018, 8, 313.	1.6	37
28	Murine Sialidase Neu3 facilitates GM2 degradation and bypass in mouse model of Tay-Sachs disease. <i>Experimental Neurology</i> , 2018, 299, 26-41.	2.0	50
29	Massenspektrometrie in der Biomedizin- und Pharmaforschung. <i>BioSpektrum</i> , 2018, 24, 694-696.	0.0	1
30	Automated analysis of lipid drug-response markers by combined fast and high-resolution whole cell MALDI mass spectrometry biotyping. <i>Scientific Reports</i> , 2018, 8, 11260.	1.6	19
31	Deletion of Specific Sphingolipids in Distinct Neurons Improves Spatial Memory in a Mouse Model of Alzheimer's Disease. <i>Frontiers in Molecular Neuroscience</i> , 2018, 11, 206.	1.4	17
32	Discovery of a Highly Selective Tankyrase Inhibitor Displaying Growth Inhibition Effects against a Diverse Range of Tumor Derived Cell Lines. <i>Journal of Medicinal Chemistry</i> , 2017, 60, 5455-5471.	2.9	24
33	Altered mitochondrial and peroxisomal integrity in lipocalin-2-deficient mice with hepatic steatosis. <i>Biochimica Et Biophysica Acta - Molecular Basis of Disease</i> , 2017, 1863, 2093-2110.	1.8	22
34	Structure-performance relationships of phenyl cinnamic acid derivatives as MALDI-MS matrices for sulfatide detection. <i>Analytical and Bioanalytical Chemistry</i> , 2017, 409, 1569-1580.	1.9	10
35	Alzheimer's-Causing Mutations Shift A β Length by Destabilizing β -Secretase-A β n Interactions. <i>Cell</i> , 2017, 170, 443-456.e14.	13.5	199
36	Scores for standardization of on-tissue digestion of formalin-fixed paraffin-embedded tissue in MALDI-MS imaging. <i>Biochimica Et Biophysica Acta - Proteins and Proteomics</i> , 2017, 1865, 907-915.	1.1	20

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37	Inhibition of Rho-Associated Kinase 1/2 Attenuates Tumor Growth in Murine Gastric Cancer. <i>Neoplasia</i> , 2016, 18, 500-511.	2.3	35
38	Molecular imaging of brain localization of liposomes in mice using MALDI mass spectrometry. <i>Scientific Reports</i> , 2016, 6, 33791.	1.6	30
39	The stress kinase GCN2 does not mediate suppression of antitumor T cell responses by tryptophan catabolism in experimental melanomas. <i>Oncolmmunology</i> , 2016, 5, e1240858.	2.1	51
40	Studying epigenetic complexes and their inhibitors with the proteomics toolbox. <i>Clinical Epigenetics</i> , 2016, 8, 76.	1.8	15
41	Therapeutic drug monitoring in dried blood spots using liquid microjunction surface sampling and high resolution mass spectrometry. <i>Analyst, The</i> , 2016, 141, 892-901.	1.7	29
42	Whole/Intact Cell MALDI MS Biotyping in Mammalian Cell Analysis. , 2016, , 249-262.		3
43	Myotubularin-related protein 7 inhibits insulin signaling in colorectal cancer. <i>Oncotarget</i> , 2016, 7, 50490-50506.	0.8	21
44	Standardized processing of MALDI imaging raw data for enhancement of weak analyte signals in mouse models of gastric cancer and Alzheimer's disease. <i>Analytical and Bioanalytical Chemistry</i> , 2015, 407, 2255-2264.	1.9	12
45	Optimized Chemical Proteomics Assay for Kinase Inhibitor Profiling. <i>Journal of Proteome Research</i> , 2015, 14, 1574-1586.	1.8	104
46	Personalized monitoring of therapeutic salicylic acid in dried blood spots using a three-layer setup and desorption electrospray ionization mass spectrometry. <i>Analytical and Bioanalytical Chemistry</i> , 2015, 407, 7229-7238.	1.9	23
47	Renal sulfatides: sphingoid base-dependent localization and region-specific compensation of CerS2-dysfunction. <i>Journal of Lipid Research</i> , 2014, 55, 2354-2369.	2.0	23
48	Quantitative imaging mass spectrometry of renal sulfatides: validation by classical mass spectrometric methods. <i>Journal of Lipid Research</i> , 2014, 55, 2343-2353.	2.0	27
49	Label-Free <i>in Situ</i> Monitoring of Histone Deacetylase Drug Target Engagement by Matrix-Assisted Laser Desorption Ionization-Mass Spectrometry Biotyping and Imaging. <i>Analytical Chemistry</i> , 2014, 86, 4642-4647.	3.2	69
50	The Commonly Used PI3-Kinase Probe LY294002 Is an Inhibitor of BET Bromodomains. <i>ACS Chemical Biology</i> , 2014, 9, 495-502.	1.6	97
51	Chemoproteomics Reveals Time-Dependent Binding of Histone Deacetylase Inhibitors to Endogenous Repressor Complexes. <i>ACS Chemical Biology</i> , 2014, 9, 1736-1746.	1.6	52
52	Mapping Protein Complexes Using Covalently Linked Antibodies and Isobaric Mass Tags. <i>Methods in Molecular Biology</i> , 2014, 1156, 279-291.	0.4	4
53	Intact cell MALDI mass spectrometry biotyping for "at-line" monitoring of apoptosis progression in CHO cell cultures. <i>BMC Proceedings</i> , 2013, 7, .	1.8	1
54	4-Phenyl- β -cyanocinnamic Acid Amide: Screening for a Negative Ion Matrix for MALDI-MS Imaging of Multiple Lipid Classes. <i>Analytical Chemistry</i> , 2013, 85, 9156-9163.	3.2	62

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55	Monitoring CHO cell cultures: Cell stress and early apoptosis assessment by mass spectrometry. <i>Journal of Biotechnology</i> , 2013, 168, 452-461.	1.9	16
56	Affinity Profiling of the Cellular Kinome for the Nucleotide Cofactors ATP, ADP, and GTP. <i>ACS Chemical Biology</i> , 2013, 8, 599-607.	1.6	73
57	Structural Basis and SAR for G007-LK, a Lead Stage 1,2,4-Triazole Based Specific Tankyrase 1/2 Inhibitor. <i>Journal of Medicinal Chemistry</i> , 2013, 56, 3012-3023.	2.9	109
58	Emergence of whole-cell MALDI-MS biotyping for high-throughput bioanalysis of mammalian cells?. <i>Bioanalysis</i> , 2013, 5, 885-893.	0.6	25
59	Quantitative Characterization of Tissue Globotetraosylceramides in a Rat Model of Polycystic Kidney Disease by PrimaDrop Sample Preparation and Indirect High-Performance Thin Layer Chromatographyâ€“Matrix-Assisted Laser Desorption/Ionization-Time-of-Flight-Mass Spectrometry with Automated Data Acquisition. <i>Analytical Chemistry</i> , 2013, 85, 6233-6240.	3.2	25
60	DMSO-enhanced MALDI MS imaging with normalization against a deuterated standard for relative quantification of dasatinib in serial mouse pharmacology studies. <i>Analytical and Bioanalytical Chemistry</i> , 2013, 405, 9467-9476.	1.9	29
61	MALDI imaging MS reveals candidate lipid markers of polycystic kidney disease. <i>Journal of Lipid Research</i> , 2013, 54, 2785-2794.	2.0	37
62	Sulfatides are required for renal adaptation to chronic metabolic acidosis. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2013, 110, 9998-10003.	3.3	53
63	CHAPTER 11. LRRK2 Kinase Inhibitors as New Drugs for Parkinsonâ€™s Disease?. <i>RSC Drug Discovery Series</i> , 2013, , 266-293.	0.2	2
64	Mass spectrometry approaches to monitor proteinâ€™drug interactions. <i>Methods</i> , 2012, 57, 430-440.	1.9	22
65	Identification of serum proteins bound to industrial nanomaterials. <i>Toxicology Letters</i> , 2012, 208, 41-50.	0.4	90
66	Sensitive, robust and automated protein analysis of cell differentiation and of primary human blood cells by intact cell MALDI mass spectrometry biotyping. <i>Analytical and Bioanalytical Chemistry</i> , 2012, 404, 2277-2286.	1.9	30
67	A selective inhibitor reveals PI3K β dependence of TH17 cell differentiation. <i>Nature Chemical Biology</i> , 2012, 8, 576-582.	3.9	136
68	Determination of Kinase Inhibitor Potencies in Cell Extracts by Competition Binding Assays and Isobaric Mass Tags. <i>Methods in Molecular Biology</i> , 2012, 803, 141-155.	0.4	2
69	Inhibition of BET recruitment to chromatin as an effective treatment for MLL-fusion leukaemia. <i>Nature</i> , 2011, 478, 529-533.	13.7	1,354
70	Chemoproteomics-Based Design of Potent LRRK2-Selective Lead Compounds That Attenuate Parkinsonâ€™s Disease-Related Toxicity in Human Neurons. <i>ACS Chemical Biology</i> , 2011, 6, 1021-1028.	1.6	131
71	Chronic treatment with a novel β -secretase modulator, JNJâ€“40418677, inhibits amyloid plaque formation in a mouse model of Alzheimer's disease. <i>British Journal of Pharmacology</i> , 2011, 163, 375-389.	2.7	54
72	Chemoproteomics profiling of HDAC inhibitors reveals selective targeting of HDAC complexes. <i>Nature Biotechnology</i> , 2011, 29, 255-265.	9.4	597

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73	Imaging of complex sulfatides SM3 and SB1a in mouse kidney using MALDI-TOF/TOF mass spectrometry. <i>Analytical and Bioanalytical Chemistry</i> , 2011, 401, 53-64.	1.9	56
74	Purification, Pharmacological Modulation, and Biochemical Characterization of Interactors of Endogenous Human \hat{I}^3 -Secretase. <i>Biochemistry</i> , 2009, 48, 1183-1197.	1.2	65
75	mGluR1/5-Dependent Long-Term Depression Requires the Regulated Ectodomain Cleavage of Neuronal Pentraxin NPR by TACE. <i>Neuron</i> , 2008, 57, 858-871.	3.8	106
76	Chemical and Pathway Proteomics. <i>Molecular and Cellular Proteomics</i> , 2008, 7, 1887-1901.	2.5	43
77	Pathway Proteomics and Chemical Proteomics Team Up in Drug Discovery. <i>Neurodegenerative Diseases</i> , 2007, 4, 270-280.	0.8	19
78	Quantitative chemical proteomics reveals mechanisms of action of clinical ABL kinase inhibitors. <i>Nature Biotechnology</i> , 2007, 25, 1035-1044.	9.4	979
79	Protein co-membership and biochemical affinity purifications. <i>Drug Discovery Today: Technologies</i> , 2006, 3, 325-330.	4.0	6
80	A physical and functional map of the human TNF- \hat{I}^{\pm} /NF- \hat{I}° B signal transduction pathway. <i>Nature Cell Biology</i> , 2004, 6, 97-105.	4.6	970
81	Narp and NP1 Form Heterocomplexes that Function in Developmental and Activity-Dependent Synaptic Plasticity. <i>Neuron</i> , 2003, 39, 513-528.	3.8	217
82	Synaptically Targeted Narp Plays an Essential Role in the Aggregation of AMPA Receptors at Excitatory Synapses in Cultured Spinal Neurons. <i>Journal of Neuroscience</i> , 2002, 22, 4487-4498.	1.7	140
83	Nitric Oxide Synthase (NOS-1) Coclustered With Agrin-Induced AChR-Specializations on Cultured Skeletal Myotubes. <i>Molecular and Cellular Neurosciences</i> , 2000, 16, 269-281.	1.0	48
84	Tyrosine phosphorylation of the muscle-specific kinase is exclusively induced by acetylcholine receptor-aggregating agrin fragments. <i>FEBS Journal</i> , 1998, 253, 382-389.	0.2	31
85	Formation of Postsynaptic-Like Membranes during Differentiation of Embryonic Stem Cells in Vitro. <i>Experimental Cell Research</i> , 1998, 239, 214-225.	1.2	44
86	Dimerization of the Muscle-specific Kinase Induces Tyrosine Phosphorylation of Acetylcholine Receptors and Their Aggregation on the Surface of Myotubes. <i>Journal of Biological Chemistry</i> , 1998, 273, 6467-6473.	1.6	77
87	Heparin Inhibits Acetylcholine Receptor Aggregation at Two Distinct Steps in the Agrin-induced Pathway. <i>European Journal of Neuroscience</i> , 1997, 9, 1170-1177.	1.2	25
88	Agrin Binding to \hat{I}^{\pm} -Dystroglycan. <i>Journal of Biological Chemistry</i> , 1996, 271, 5231-5236.	1.6	71