Tobias Kind

List of Publications by Year in descending order

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74163 66343 12,200 78 42 75 citations h-index g-index papers 85 85 85 14330 docs citations times ranked citing authors all docs

#	Article	IF	CITATIONS
1	MS-DIAL: data-independent MS/MS deconvolution for comprehensive metabolome analysis. Nature Methods, 2015, 12, 523-526.	19.0	1,955
2	FiehnLib: Mass Spectral and Retention Index Libraries for Metabolomics Based on Quadrupole and Time-of-Flight Gas Chromatography/Mass Spectrometry. Analytical Chemistry, 2009, 81, 10038-10048.	6.5	1,294
3	Seven Golden Rules for heuristic filtering of molecular formulas obtained by accurate mass spectrometry. BMC Bioinformatics, 2007, 8, 105.	2.6	929
4	LipidBlast in silico tandem mass spectrometry database for lipid identification. Nature Methods, 2013, 10, 755-758.	19.0	783
5	Quality control for plant metabolomics: reporting MSIâ€compliant studies. Plant Journal, 2008, 53, 691-704.	5.7	591
6	Metabolomic database annotations via query of elemental compositions: mass accuracy is insufficient even at less than 1 ppm. BMC Bioinformatics, 2006, 7, 234.	2.6	532
7	Software Tools and Approaches for Compound Identification of LC-MS/MS Data in Metabolomics. Metabolites, 2018, 8, 31.	2.9	461
8	Hydrogen Rearrangement Rules: Computational MS/MS Fragmentation and Structure Elucidation Using MS-FINDER Software. Analytical Chemistry, 2016, 88, 7946-7958.	6.5	441
9	A comprehensive urinary metabolomic approach for identifying kidney cancer. Analytical Biochemistry, 2007, 363, 185-195.	2.4	427
10	Advances in structure elucidation of small molecules using mass spectrometry. Bioanalytical Reviews, 2010, 2, 23-60.	0.2	393
11	Identifying metabolites by integrating metabolome databases with mass spectrometry cheminformatics. Nature Methods, 2018, 15, 53-56.	19.0	368
12	Mass Spectrometry–Based Metabolic Profiling Reveals Different Metabolite Patterns in Invasive Ovarian Carcinomas and Ovarian Borderline Tumors. Cancer Research, 2006, 66, 10795-10804.	0.9	366
13	Identification of small molecules using accurate mass MS/MS search. Mass Spectrometry Reviews, 2018, 37, 513-532.	5.4	292
14	Metabolite profiling of human colon carcinoma – deregulation of TCA cycle and amino acid turnover. Molecular Cancer, 2008, 7, 72.	19.2	285
15	MetaMapp: mapping and visualizing metabolomic data by integrating information from biochemical pathways and chemical and mass spectral similarity. BMC Bioinformatics, 2012, 13, 99.	2.6	203
16	MINEs: open access databases of computationally predicted enzyme promiscuity products for untargeted metabolomics. Journal of Cheminformatics, 2015, 7, 44.	6.1	172
17	Systematic Error Removal Using Random Forest for Normalizing Large-Scale Untargeted Lipidomics Data. Analytical Chemistry, 2019, 91, 3590-3596.	6.5	163
18	Structure Annotation of All Mass Spectra in Untargeted Metabolomics. Analytical Chemistry, 2019, 91, 2155-2162.	6.5	131

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19	Retip: Retention Time Prediction for Compound Annotation in Untargeted Metabolomics. Analytical Chemistry, 2020, 92, 7515-7522.	6.5	128
20	Critical Assessment of Small Molecule Identification 2016: automated methods. Journal of Cheminformatics, 2017, 9, 22.	6.1	122
21	The Chemical Translation Serviceâ€"a web-based tool to improve standardization of metabolomic reports. Bioinformatics, 2010, 26, 2647-2648.	4.1	117
22	How Large Is the Metabolome? A Critical Analysis of Data Exchange Practices in Chemistry. PLoS ONE, 2009, 4, e5440.	2.5	104
23	Metabolite Profiling in Blood Plasma. Methods in Molecular Biology, 2007, 358, 3-17.	0.9	101
24	MS2Analyzer: A Software for Small Molecule Substructure Annotations from Accurate Tandem Mass Spectra. Analytical Chemistry, 2014, 86, 10724-10731.	6.5	82
25	Comprehensive comparison of in silico MS/MS fragmentation tools of the CASMI contest: database boosting is needed to achieve 93% accuracy. Journal of Cheminformatics, 2017, 9, 32.	6.1	80
26	Applying <i>In-Silico</i> Retention Index and Mass Spectra Matching for Identification of Unknown Metabolites in Accurate Mass GC-TOF Mass Spectrometry. Analytical Chemistry, 2011, 83, 5895-5902.	6.5	77
27	Spectral entropy outperforms MS/MS dot product similarity for small-molecule compound identification. Nature Methods, 2021, 18, 1524-1531.	19.0	71
28	Induced Pluripotent Stem Cells Show Metabolomic Differences to Embryonic Stem Cells in Polyunsaturated Phosphatidylcholines and Primary Metabolism. PLoS ONE, 2012, 7, e46770.	2.5	68
29	Extending Biochemical Databases by Metabolomic Surveys. Journal of Biological Chemistry, 2011, 286, 23637-23643.	3.4	67
30	Effectâ€directed fractionation and identification of cytochrome P4501Aâ€inducing halogenated aromatic hydrocarbons in a contaminated sediment. Environmental Toxicology and Chemistry, 2002, 21, 2654-2662.	4.3	66
31	Qualitative analysis of algal secretions with multiple mass spectrometric platforms. Journal of Chromatography A, 2012, 1244, 139-147.	3.7	65
32	Increasing Compound Identification Rates in Untargeted Lipidomics Research with Liquid Chromatography Drift Time–Ion Mobility Mass Spectrometry. Analytical Chemistry, 2018, 90, 10758-10764.	6.5	63
33	An in silico MS/MS library for automatic annotation of novel FAHFA lipids. Journal of Cheminformatics, 2015, 7, 53.	6.1	59
34	Identification of Naturally Occurring Fatty Acids of the Myelin Sheath That Resolve Neuroinflammation. Science Translational Medicine, 2012, 4, 137ra73.	12.4	58
35	Polychlorinated naphthalenes in sediments from the industrial region of Bitterfeld. Environmental Pollution, 2003, 121, 81-85.	7.5	55
36	Determination of elemental compositions by gas chromatography/timeâ€ofâ€flight mass spectrometry using chemical and electron ionization. Rapid Communications in Mass Spectrometry, 2010, 24, 1172-1180.	1.5	55

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37	Cofactor symbiosis for enhanced algal growth, biofuel production, and wastewater treatment. Algal Research, 2016, 17, 308-315.	4.6	53
38	LipidBlast Templates As Flexible Tools for Creating New in-Silico Tandem Mass Spectral Libraries. Analytical Chemistry, 2014, 86, 11024-11027.	6.5	52
39	Lipidomic Analysis of Chlamydomonas reinhardtii under Nitrogen and Sulfur Deprivation. PLoS ONE, 2015, 10, e0137948.	2.5	51
40	Comparative evaluation of extraction methods for simultaneous mass-spectrometric analysis of complex lipids and primary metabolites from human blood plasma. Analytical and Bioanalytical Chemistry, 2014, 406, 7275-7286.	3.7	48
41	Retention projection enables accurate calculation of liquid chromatographic retention times across labs and methods. Journal of Chromatography A, 2015, 1412, 43-51.	3.7	47
42	Quantum Chemistry Calculations for Metabolomics. Chemical Reviews, 2021, 121, 5633-5670.	47.7	47
43	Sequential fractionation procedure for the identification of potentially cytochrome P4501A-inducing compounds. Journal of Chromatography A, 2003, 986, 55-66.	3.7	43
44	Pharmacogenetics Meets Metabolomics: Discovery of Tryptophan as a New Endogenous OCT2 Substrate Related to Metformin Disposition. PLoS ONE, 2012, 7, e36637.	2.5	43
45	A Comprehensive Plasma Metabolomics Dataset for a Cohort of Mouse Knockouts within the International Mouse Phenotyping Consortium. Metabolites, 2019, 9, 101.	2.9	40
46	Changes in plasma metabolites and glucose homeostasis during omega-3 polyunsaturated fatty acid supplementation in women with polycystic ovary syndrome. BBA Clinical, 2016, 5, 179-185.	4.1	39
47	Age and sex are associated with the plasma lipidome: findings from the GOLDN study. Lipids in Health and Disease, 2021, 20, 30.	3.0	36
48	Role of Squalene in the Organization of Monolayers Derived from Lipid Extracts of Halobacterium salinarum. Langmuir, 2013, 29, 7922-7930.	3 . 5	35
49	Use of boiling point–Lee retention index correlation for rapid review of gas chromatography-mass spectrometry data. Analytica Chimica Acta, 2003, 494, 235-243.	5.4	34
50	Interstitial Cystitis-Associated Urinary Metabolites Identified by Mass-Spectrometry Based Metabolomics Analysis. Scientific Reports, 2016, 6, 39227.	3.3	33
51	Ultrafast Polyphenol Metabolomics of Red Wines Using MicroLC-MS/MS. Journal of Agricultural and Food Chemistry, 2016, 64, 505-512.	5. 2	31
52	Longitudinal Metabolome-Wide Signals Prior to the Appearance of a First Islet Autoantibody in Children Participating in the TEDDY Study. Diabetes, 2020, 69, 465-476.	0.6	30
53	Prognostic impact of AMP-activated protein kinase expression in ovarian carcinoma: Correlation of protein expression and GC/TOF-MS-based metabolomics. Oncology Reports, 2011, 25, 1005-12.	2.6	27
54	Hydrocarbon phenotyping of algal species using pyrolysis-gas chromatography mass spectrometry. BMC Biotechnology, 2010, 10, 40.	3.3	26

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55	Strategies for dereplication of natural compounds using high-resolution tandem mass spectrometry. Phytochemistry Letters, 2017, 21, 313-319.	1.2	26
56	Using Accurate Mass Gas Chromatography–Mass Spectrometry with the MINE Database for Epimetabolite Annotation. Analytical Chemistry, 2017, 89, 10171-10180.	6.5	25
57	In-Silico-Generated Library for Sensitive Detection of 2-Dimethylaminoethylamine Derivatized FAHFA Lipids Using High-Resolution Tandem Mass Spectrometry. Analytical Chemistry, 2020, 92, 5960-5968.	6.5	23
58	Informatics for improved algal taxonomic classification and research: A case study of UTEX 2341. Algal Research, 2015, 12, 545-549.	4.6	20
59	Predicting in silico electron ionization mass spectra using quantum chemistry. Journal of Cheminformatics, 2020, 12, 63.	6.1	20
60	Effect of steroidal saponins from Agave on the polysaccharide cell wall composition of Saccharomyces cerevisiae and Kluyveromyces marxianus. LWT - Food Science and Technology, 2017, 77, 430-439.	5.2	19
61	Metabolomics Analyses of 14 Classical Neurotransmitters by GC-TOF with LC-MS Illustrates Secretion of 9 Cell–Cell Signaling Molecules from Sympathoadrenal Chromaffin Cells in the Presence of Lithium. ACS Chemical Neuroscience, 2019, 10, 1369-1379.	3.5	13
62	Environmental Tobacco Smoke Alters Metabolic Systems in Adult Rats. Chemical Research in Toxicology, 2016, 29, 1818-1827.	3.3	12
63	Hyperosmotic stress in <i>Chlamydomonas</i> induces metabolomic changes in biosynthesis of complex lipids. European Journal of Phycology, 2020, 55, 11-29.	2.0	11
64	A Large and Phylogenetically Diverse Class of Type 1 Opsins Lacking a Canonical Retinal Binding Site. PLoS ONE, 2016, 11, e0156543.	2.5	11
65	Exploration of polar lipid accumulation profiles in <i>Euglena gracilis</i> using LipidBlast, an MS/MS spectral library constructed <i>in silico</i> Bioscience, Biotechnology and Biochemistry, 2014, 78, 14-18.	1.3	10
66	What are the obstacles for an integrated system for comprehensive interpretation of cross-platform metabolic profile data?. Bioanalysis, 2009, 1, 1511-1514.	1.5	7
67	An Amish founder population reveals rare-population genetic determinants of the human lipidome. Communications Biology, 2022, 5, 334.	4.4	7
68	A lipidome-wide association study of the lipoprotein insulin resistance index. Lipids in Health and Disease, 2020, 19, 153.	3.0	6
69	Acyl-CoA Identification in Mouse Liver Samples Using the In Silico CoA-Blast Tandem Mass Spectral Library. Analytical Chemistry, 2022, 94, 2732-2739.	6.5	6
70	Software platform virtualization in chemistry research and university teaching. Journal of Cheminformatics, 2009, 1, 18.	6.1	5
71	Quantum Chemical Prediction of Electron Ionization Mass Spectra of Trimethylsilylated Metabolites. Analytical Chemistry, 2022, , .	6.5	5
72	Evaluating the Accuracy of the QCEIMS Approach for Computational Prediction of Electron Ionization Mass Spectra of Purines and Pyrimidines. Metabolites, 2022, 12, 68.	2.9	4

TOBIAS KIND

#	Article	IF	CITATION
73	Advances in structure elucidation of small molecules using mass spectrometry. , 2013, , 129-166.		2
74	Analysis of Polar Lipids inChlamydomonas reinhardtiiUsing Nanoelectrospray Direct Infusion Method and Gas Chromatography and Mass Spectrometric Detection. Acta Chimica Sinica, 2013, 71, 663.	1.4	2
75	Genomics of Postprandial Lipidomics in the Genetics of Lipid-Lowering Drugs and Diet Network Study. Nutrients, 2021, 13, 4000.	4.1	2
76	Changes in lipidomic profile by anti-retroviral treatment regimen. Medicine (United States), 2021, 100, e26588.	1.0	1
77	Erratum to "Sequential fractionation procedure for the identification of potentially cytochrome P4501A-inducing compounds― Journal of Chromatography A, 2003, 993, 223.	3.7	0
78	Extending biochemical databases by metabolomic surveys Journal of Biological Chemistry, 2011, 286, 30244.	3.4	0