Reza M Salek

List of Publications by Year
in descending order

90 papers	5,328 citations	101543 36 h-index	88630 70 g-index
110 all docs	110 docs citations	110 times ranked	9062 citing authors

#	Article	IF	Citations
1	MetaboLightsâ€"an open-access general-purpose repository for metabolomics studies and associated meta-data. Nucleic Acids Research, 2013, 41, D781-D786.	14.5	578
2	Mass spectral databases for LC/MS- and GC/MS-based metabolomics: State of the field and future prospects. TrAC - Trends in Analytical Chemistry, 2016, 78, 23-35.	11.4	404
3	A metabolomic comparison of urinary changes in type 2 diabetes in mouse, rat, and human. Physiological Genomics, 2007, 29, 99-108.	2.3	354
4	The role of reporting standards for metabolite annotation and identification in metabolomic studies. GigaScience, 2013, 2, 13.	6.4	333
5	NMR-based metabolomics in human disease diagnosis: applications, limitations, and recommendations. Metabolomics, 2013, 9, 1048-1072.	3.0	203
6	Standardizing the experimental conditions for using urine in NMR-based metabolomic studies with a particular focus on diagnostic studies: a review. Metabolomics, 2015, 11, 872-894.	3.0	196
7	Navigating freely-available software tools for metabolomics analysis. Metabolomics, 2017, 13, 106.	3.0	173
8	Discovering and linking public omics data sets using the Omics Discovery Index. Nature Biotechnology, 2017, 35, 406-409.	17.5	159
9	MetaboLights: An Openâ€Access Database Repository for Metabolomics Data. Current Protocols in Bioinformatics, 2016, 53, 14.13.1-14.13.18.	25.8	147
10	COordination of Standards in MetabOlomicS (COSMOS): facilitating integrated metabolomics data access. Metabolomics, 2015, 11, 1587-1597.	3.0	140
11	A metabolomic study of the CRND8 transgenic mouse model of Alzheimer's disease. Neurochemistry International, 2010, 56, 937-947.	3.8	131
12	Use cases, best practice and reporting standards for metabolomics in regulatory toxicology. Nature Communications, 2019, 10, 3041.	12.8	131
13	The mzTab Data Exchange Format: Communicating Mass-spectrometry-based Proteomics and Metabolomics Experimental Results to a Wider Audience. Molecular and Cellular Proteomics, 2014, 13, 2765-2775.	3.8	130
14	Remodeling of central metabolism in invasive breast cancer compared to normal breast tissue â€" a GC-TOFMS based metabolomics study. BMC Genomics, 2012, 13, 334.	2.8	123
15	Recommendations and Standardization of Biomarker Quantification Using NMR-Based Metabolomics with Particular Focus on Urinary Analysis. Journal of Proteome Research, 2016, 15, 360-373.	3.7	122
16	Data standards can boost metabolomics research, and if there is a will, there is a way. Metabolomics, 2016, 12, 14.	3.0	97
17	Metabolomics of human breast cancer: new approaches for tumor typing and biomarker discovery. Genome Medicine, 2012, 4, 37.	8.2	88
18	Proteomics Standards Initiative: Fifteen Years of Progress and Future Work. Journal of Proteome Research, 2017, 16, 4288-4298.	3.7	87

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19	Genome-Wide Association Study of Metabolic Traits Reveals Novel Gene-Metabolite-Disease Links. PLoS Genetics, 2014, 10, e1004132.	3.5	86
20	MetaboLights: towards a new COSMOS of metabolomics data management. Metabolomics, 2012, 8, 757-760.	3.0	79
21	A decade after the metabolomics standards initiative it's time for a revision. Scientific Data, 2017, 4, 170138.	5.3	70
22	Computational tools and workflows in metabolomics: An international survey highlights the opportunity for harmonisation through Galaxy. Metabolomics, 2017, 13, 12.	3.0	69
23	The metaRbolomics Toolbox in Bioconductor and beyond. Metabolites, 2019, 9, 200.	2.9	64
24	The Time Is Right to Focus on Model Organism Metabolomes. Metabolites, 2016, 6, 8.	2.9	63
25	SPLASH, a hashed identifier for mass spectra. Nature Biotechnology, 2016, 34, 1099-1101.	17.5	61
26	Compliance with minimum information guidelines in public metabolomics repositories. Scientific Data, 2017, 4, 170137.	5.3	61
27	PhenoMeNal: processing and analysis of metabolomics data in the cloud. GigaScience, 2019, 8, .	6.4	60
28	Dolphin: a tool for automatic targeted metabolite profiling using 1D and 2D 1H-NMR data. Analytical and Bioanalytical Chemistry, 2014, 406, 7967-7976.	3.7	55
29	rDolphin: a GUI R package for proficient automatic profiling of 1D 1H-NMR spectra of study datasets. Metabolomics, 2018, 14, 24.	3.0	52
30	Mind the Gap: Mapping Mass Spectral Databases in Genome-Scale Metabolic Networks Reveals Poorly Covered Areas. Metabolites, 2018, 8, 51.	2.9	51
31	nmrML: A Community Supported Open Data Standard for the Description, Storage, and Exchange of NMR Data. Analytical Chemistry, 2018, 90, 649-656.	6.5	50
32	Expanding the Use of Spectral Libraries in Proteomics. Journal of Proteome Research, 2018, 17, 4051-4060.	3.7	47
33	The MetaboLights repository: curation challenges in metabolomics. Database: the Journal of Biological Databases and Curation, 2013, 2013, bat029.	3.0	46
34	Metabolomics: The Stethoscope for the Twenty-First Century. Medical Principles and Practice, 2021, 30, 301-310.	2.4	46
35	mzTab-M: A Data Standard for Sharing Quantitative Results in Mass Spectrometry Metabolomics. Analytical Chemistry, 2019, 91, 3302-3310.	6.5	43
36	Getting the right answers: understanding metabolomics challenges. Expert Review of Molecular Diagnostics, 2015, 15, 97-109.	3.1	42

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37	Global open data management in metabolomics. Current Opinion in Chemical Biology, 2017, 36, 58-63.	6.1	39
38	Networks and Graphs Discovery in Metabolomics Data Analysis and Interpretation. Frontiers in Molecular Biosciences, 2022, 9, 841373.	3.5	35
39	Exposome-Explorer 2.0: an update incorporating candidate dietary biomarkers and dietary associations with cancer risk. Nucleic Acids Research, 2019, 48, D908-D912.	14.5	31
40	Metabolomics in early detection and prognosis of acute coronary syndrome. Clinica Chimica Acta, 2019, 495, 43-53.	1.1	30
41	A metabolomic strategy defines the regulation of lipid content and global metabolism by Î"9 desaturases in Caenorhabditis elegans. BMC Genomics, 2012, 13, 36.	2.8	28
42	Dissemination of metabolomics results: role of MetaboLights and COSMOS. GigaScience, 2013, 2, 8.	6.4	28
43	Metabolomic investigation of CLN6 neuronal ceroid lipofuscinosis in affected South Hampshire sheep. Journal of Neuroscience Research, 2007, 85, 3494-3504.	2.9	24
44	A Metabolomic Study of Brain Tissues from Aged Mice with Low Expression of the Vesicular Monoamine Transporter 2 (VMAT2) Gene. Neurochemical Research, 2008, 33, 292-300.	3.3	23
45	1H nuclear magnetic resonance spectroscopy characterisation of metabolic phenotypes in the medulloblastoma of the SMO transgenic mice. British Journal of Cancer, 2010, 103, 1297-1304.	6.4	23
46	Biomarkers of food intake and metabolite differences between plasma and red blood cell matrices; a human metabolomic profile approach. Molecular BioSystems, 2013, 9, 1411.	2.9	23
47	The Human Proteome Organizationâ€"Proteomics Standards Initiative Quality Control Working Group: Making Quality Control More Accessible for Biological Mass Spectrometry. Analytical Chemistry, 2017, 89, 4474-4479.	6.5	22
48	Interoperable and scalable data analysis with microservices: applications in metabolomics. Bioinformatics, 2019, 35, 3752-3760.	4.1	22
49	Emerging technologies and their impact on regulatory science. Experimental Biology and Medicine, 2022, 247, 1-75.	2.4	22
50	Backbone resonance assignments of the 25kD N-terminal ATPase domain from the Hsp90 chaperone. Journal of Biomolecular NMR, 2002, 23, 327-328.	2.8	19
51	A Tool to Encourage Minimum Reporting Guideline Uptake for Data Analysis in Metabolomics. Metabolites, 2019, 9, 43.	2.9	19
52	The future of metabolomics in ELIXIR. F1000Research, 2017, 6, 1649.	1.6	19
53	A Metadata description of the data in "A metabolomic comparison of urinary changes in type 2 diabetes in mouse, rat, and human.". BMC Research Notes, 2011, 4, 272.	1.4	16
54	The Study of Mammalian Metabolism through NMR-based Metabolomics. Methods in Enzymology, 2011, 500, 337-351.	1.0	15

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55	A New Pipeline for the Normalization and Pooling of Metabolomics Data. Metabolites, 2021, 11, 631.	2.9	15
56	Metabolomics continues to expand: highlights from the 2015 metabolomics conference. Metabolomics, 2015, 11, 1036-1040.	3.0	14
57	Metabolomic applications to neuroscience: more challenges than chances?. Expert Review of Proteomics, 2007, 4, 435-437.	3.0	13
58	Embedding standards in metabolomics: the Metabolomics Society data standards task group. Metabolomics, 2015, 11, 782-783.	3.0	13
59	Behavioural and molecular endophenotypes in psychotic disorders reveal heritable abnormalities in glutamatergic neurotransmission. Translational Psychiatry, 2015, 5, e540-e540.	4.8	13
60	Assessing Public Metabolomics Metadata, Towards Improving Quality. Journal of Integrative Bioinformatics, 2017, 14, .	1.5	13
61	Metabolic differences in ripening of Solanum lycopersicum â€˜Ailsa Craigâ€™ and three monogenic mutants. Scientific Data, 2014, 1, 140029.	5.3	12
62	mzML2ISA & nmrML2ISA: generating enriched ISA-Tab metadata files from metabolomics XML data. Bioinformatics, 2017, 33, 2598-2600.	4.1	12
63	A metabolomic comparison of mouse models of the Neuronal Ceroid Lipofuscinoses. Journal of Biomolecular NMR, 2011, 49, 175-184.	2.8	11
64	The future of metabolomics in ELIXIR. F1000Research, 2017, 6, 1649.	1.6	11
65	SpeckTackle: JavaScript charts for spectroscopy. Journal of Cheminformatics, 2015, 7, 17.	6.1	10
66	Automated assembly of species metabolomes through data submission into a public repository. GigaScience, 2017, 6, 1-4.	6.4	9
67	Infection Susceptibility in Gastric Intrinsic Factor (Vitamin B$_{12}$)-Defective Mice Is Subject to Maternal Influences. MBio, 2016, 7, .	4.1	8
68	Cross-Platform Evaluation of Commercially Targeted and Untargeted Metabolomics Approaches to Optimize the Investigation of Psychiatric Disease. Metabolites, 2021, 11, 609.	2.9	6
69	From Databases to Big Data. , 2016, , 317-331.		5
70	The ABRF Metabolomics Research Group 2016 Exploratory Study: Investigation of Data Analysis Methods for Untargeted Metabolomics. Metabolites, 2020, 10, 128.	2.9	5
71	mzRAPP: a tool for reliability assessment of data pre-processing in non-targeted metabolomics. Bioinformatics, 2021, 37, 3678-3680.	4.1	5
72	The Disruptive 4IR in the Life Sciences: Metabolomics. Lecture Notes in Electrical Engineering, 2020, , 227-256.	0.4	4

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73	Dolphin 1D: Improving Automation of Targeted Metabolomics in Multi-matrix Datasets of ^{1}H-NMR Spectra. Advances in Intelligent Systems and Computing, 2015, , 59-67.	0.6	3
74	Editorial: Metabolome Informatics and Statistics: Current State and Emerging Trends. Frontiers in Bioengineering and Biotechnology, 2016, 4, 63.	4.1	3
75	Improving sample classification by harnessing the potential of 1H-NMR signal chemical shifts. Scientific Reports, 2018, 8, 11886.	3.3	3
76	Metabolome Analysis. , 2019, , 396-409.		3
77	ELIXIR and Toxicology: a community in development. F1000Research, 0, 10, 1129.	1.6	3
78	Power of mzRAPP-Based Performance Assessments in MS1-Based Nontargeted Feature Detection. Analytical Chemistry, 2022, 94, 8588-8595.	6.5	3
79	The Metabolomics Society—Current State of the Membership and Future Directions. Metabolites, 2019, 9, 89.	2.9	2
80	Information Retrieval Using Machine Learning for Biomarker Curation in the Exposome-Explorer. Frontiers in Research Metrics and Analytics, 2021, 6, 689264.	1.9	2
81	NMR-based plasma metabolic profiling in patients with unstable angina. Iranian Journal of Basic Medical Sciences, 2020, 23, 311-320.	1.0	2
82	1 H MAS NMR Spectroscopy of Tissues. , 2010, , 925-930.		1
83	Expanding natural product chemistry resources at the EBI. Journal of Cheminformatics, 2013, 5, .	6.1	0
84	Progress in Standardization of Metabolic Phenotyping Data. , 2019, , 369-384.		0
85	Neuroscience and Metabolomics. , 2013, , 220-231.		0
86	Metabolomics in neuroscience and neurology.. , 2014, , 20-30.		0
87	Towards standard, accessible and reproducible Metabolomics.. , 0, , .		0
88	NMR Spectroscopy of Tissues, 1 H MAS. , 2017, , 254-259.		0
89	Measurement Technologies. , 2019, , 35-72.		0
90	Application of Machine Learning Solutions to Optimize Parameter Prediction to Enhance Automatic NMR Metabolite Profiling. Metabolites, 2022, 12, 283.	2.9	0