

Biswapriya B. Misra

List of Publications by Year in Descending Order

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Version: 2024-04-24

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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.

72
papers

1,645
citations

22
h-index

38
g-index

91
ext. papers

2,319
ext. citations

4.6
avg, IF

6.06
L-index

#	Paper	IF	Citations
72	Causal reasoning over knowledge graphs leveraging drug-perturbed and disease-specific transcriptomic signatures for drug discovery.. <i>PLoS Computational Biology</i> , 2022 , 18, e1009909	5	0
71	Time-course analysis of <i>Streptococcus sanguinis</i> after manganese depletion reveals changes in glycolytic and nucleic acid metabolites. <i>Metabolomics</i> , 2021 , 17, 44	4.7	1
70	New software tools, databases, and resources in metabolomics: updates from 2020. <i>Metabolomics</i> , 2021 , 17, 49	4.7	34
69	Ten tips for overcoming language barriers in science. <i>Nature Human Behaviour</i> , 2021 , 5, 1119-1122	12.8	9
68	Loss of function of lysosomal acid lipase (LAL) profoundly impacts osteoblastogenesis and increases fracture risk in humans. <i>Bone</i> , 2021 , 148, 115946	4.7	1
67	Auto-deconvolution and molecular networking of gas chromatography-mass spectrometry data. <i>Nature Biotechnology</i> , 2021 , 39, 169-173	44.5	36
66	Advances in high resolution GC-MS technology: a focus on the application of GC-Orbitrap-MS in metabolomics and exposomics for FAIR practices. <i>Analytical Methods</i> , 2021 , 13, 2265-2282	3.2	6
65	Untargeted metabolomics in primary murine bone marrow stromal cells reveals distinct profile throughout osteoblast differentiation. <i>Metabolomics</i> , 2021 , 17, 86	4.7	5
64	Editorial for special issue: Metabolomics in India. <i>Analytical Science Advances</i> , 2021 , 2, 495-496	1.1	
63	State of the Field in Multi-Omics Research: From Computational Needs to Data Mining and Sharing. <i>Frontiers in Genetics</i> , 2020 , 11, 610798	4.5	37
62	Solute Carrier Family 37 Member 2 (SLC37A2) Negatively Regulates Murine Macrophage Inflammation by Controlling Glycolysis. <i>iScience</i> , 2020 , 23, 101125	6.1	2
61	Short-term effects of the allelochemical umbelliferone on <i>Triticum durum</i> L. metabolism through GC-MS based untargeted metabolomics. <i>Plant Science</i> , 2020 , 298, 110548	5.3	5
60	Software tools, databases and resources in metabolomics: updates from 2018 to 2019. <i>Metabolomics</i> , 2020 , 16, 36	4.7	43
59	High Resolution GC-Orbitrap-MS Metabolomics Using Both Electron Ionization and Chemical Ionization for Analysis of Human Plasma. <i>Journal of Proteome Research</i> , 2020 , 19, 2717-2731	5.6	19
58	The Connection and Disconnection Between Microbiome and Metabolome: A Critical Appraisal in Clinical Research. <i>Biological Research for Nursing</i> , 2020 , 22, 561-576	2.6	6
57	Open-Source Software Tools, Databases, and Resources for Single-Cell and Single-Cell-Type Metabolomics. <i>Methods in Molecular Biology</i> , 2020 , 2064, 191-217	1.4	5
56	The chemical exposome of type 2 diabetes mellitus: Opportunities and challenges in the omics era. <i>Diabetes and Metabolic Syndrome: Clinical Research and Reviews</i> , 2020 , 14, 23-38	8.9	16

55	Phytotoxicity, Morphological, and Metabolic Effects of the Sesquiterpenoid Nerolidol on Seedling Roots. <i>Plants</i> , 2020 , 9,	4.5	6
54	The Chemical Exposome of Human Aging. <i>Frontiers in Genetics</i> , 2020 , 11, 574936	4.5	7
53	Individualized metabolomics: opportunities and challenges. <i>Clinical Chemistry and Laboratory Medicine</i> , 2020 , 58, 939-947	5.9	4
52	Data normalization strategies in metabolomics: Current challenges, approaches, and tools. <i>European Journal of Mass Spectrometry</i> , 2020 , 26, 165-174	1.1	22
51	Metabolomics Tools to Study Links Between Pollution and Human Health: an Exposomics Perspective. <i>Current Pollution Reports</i> , 2019 , 5, 93-111	7.6	8
50	Chemodiversity of the Glucosinolate-Myrosinase System at the Single Cell Type Resolution. <i>Frontiers in Plant Science</i> , 2019 , 10, 618	6.2	25
49	A Workflow in Single Cell-Type Metabolomics: From Data Pre-Processing and Statistical Analysis to Biological Insights 2019 , 105-127		
48	Challenges and Opportunities in Cancer Metabolomics. <i>Proteomics</i> , 2019 , 19, e1900042	4.8	32
47	Analysis of serum changes in response to a high fat high cholesterol diet challenge reveals metabolic biomarkers of atherosclerosis. <i>PLoS ONE</i> , 2019 , 14, e0214487	3.7	12
46	¹ H NMR metabolomic analysis of skin and blubber of bottlenose dolphins reveals a functional metabolic dichotomy. <i>Comparative Biochemistry and Physiology Part D: Genomics and Proteomics</i> , 2019 , 30, 25-32	2	4
45	Integrated microbiome and metabolome analysis reveals a novel interplay between commensal bacteria and metabolites in colorectal cancer. <i>Theranostics</i> , 2019 , 9, 4101-4114	12.1	69
44	Tools and resources for metabolomics research community: A 2017-2018 update. <i>Electrophoresis</i> , 2019 , 40, 227-246	3.6	31
43	The guard cell ionome: Understanding the role of ions in guard cell functions. <i>Progress in Biophysics and Molecular Biology</i> , 2019 , 146, 50-62	4.7	7
42	Nonhuman primate breath volatile organic compounds associate with developmental programming and cardio-metabolic status. <i>Journal of Breath Research</i> , 2018 , 12, 036016	3.1	5
41	Updates on resources, software tools, and databases for plant proteomics in 2016-2017. <i>Electrophoresis</i> , 2018 , 39, 1543-1557	3.6	11
40	Whole genome sequence analyses of brain imaging measures in the Framingham Study. <i>Neurology</i> , 2018 , 90, e188-e196	6.5	19
39	New tools and resources in metabolomics: 2016-2017. <i>Electrophoresis</i> , 2018 , 39, 909-923	3.6	43
38	Diversity of methanogenic archaea in freshwater sediments of lacustrine ecosystems. <i>Journal of Basic Microbiology</i> , 2018 , 58, 101-119	2.7	9

37	High-throughput phenotyping by applying digital morphometrics and fluorescence induction curves in seeds to identifying variations: A case study of <i>Annona</i> (Annonaceae) species. <i>Information Processing in Agriculture</i> , 2018 , 5, 443-455	4.2	2
36	High-resolution gas chromatography/mass spectrometry metabolomics of non-human primate serum. <i>Rapid Communications in Mass Spectrometry</i> , 2018 , 32, 1497-1506	2.2	21
35	Integrated Omics: Tools, Advances, and Future Approaches. <i>Journal of Molecular Endocrinology</i> , 2018 ,	4.5	162
34	Visual gene network analysis of aging-specific gene co-expression in human indicates overlaps with immuno-pathological regulations. <i>4open</i> , 2018 , 1, 4	0.8	2
33	Optimized GC-MS metabolomics for the analysis of kidney tissue metabolites. <i>Metabolomics</i> , 2018 , 14, 75	4.7	13
32	Review of emerging metabolomic tools and resources: 2015-2016. <i>Electrophoresis</i> , 2017 , 38, 2257-2274	3.6	40
31	2392: Detecting cardiometabolic disease through breath analysis: A metabolomic approach. <i>Journal of Clinical and Translational Science</i> , 2017 , 1, 64-64	0.4	78
30	Metabolomic Responses of Arabidopsis Suspension Cells to Bicarbonate under Light and Dark Conditions. <i>Scientific Reports</i> , 2016 , 6, 35778	4.9	7
29	Cataloging the Brassica napus seed metabolome. <i>Cogent Food and Agriculture</i> , 2016 , 2,	1.8	4
28	Differential metabolomic responses of PAMP-triggered immunity and effector-triggered immunity in Arabidopsis suspension cells. <i>Metabolomics</i> , 2016 , 12, 1	4.7	12
27	Polyploidy and the proteome. <i>Biochimica Et Biophysica Acta - Proteins and Proteomics</i> , 2016 , 1864, 896-907		25
26	New nodes and edges in the glucosinolate molecular network revealed by proteomics and metabolomics of Arabidopsis myb28/29 and cyp79B2/B3 glucosinolate mutants. <i>Journal of Proteomics</i> , 2016 , 138, 1-19	3.9	21
25	Plant Volatilome Resources. <i>Current Metabolomics</i> , 2016 , 4, 148-150	1	4
24	The Black-Box of Plant Apoplast Lipidomes. <i>Frontiers in Plant Science</i> , 2016 , 7, 323	6.2	7
23	Updates in metabolomics tools and resources: 2014-2015. <i>Electrophoresis</i> , 2016 , 37, 86-110	3.6	102
22	Jasmonate-mediated stomatal closure under elevated CO revealed by time-resolved metabolomics. <i>Plant Journal</i> , 2016 , 88, 947-962	6.9	56
21	When plants brace for the emerging pathogens. <i>Physiological and Molecular Plant Pathology</i> , 2015 , 92, 181-185	2.6	9
20	The guard cell metabolome: functions in stomatal movement and global food security. <i>Frontiers in Plant Science</i> , 2015 , 6, 334	6.2	54

19	Metabolomic Responses of Guard Cells and Mesophyll Cells to Bicarbonate. <i>PLoS ONE</i> , 2015 , 10, e0144206	2.6	24
18	Advances in understanding CO ₂ responsive plant metabolomes in the era of climate change. <i>Metabolomics</i> , 2015 , 11, 1478-1491	4.7	25
17	Is a plant's ploidy status reflected in its metabolome?. <i>Postdoc Journal</i> , 2015 , 3,		2
16	Immunolocalization of ßantalol in sandalwood. <i>Journal of Essential Oil Research</i> , 2014 , 26, 238-246	2.3	2
15	Plant single-cell and single-cell-type metabolomics. <i>Trends in Plant Science</i> , 2014 , 19, 637-46	13.1	84
14	An Updated Snapshot of Recent Advances in Transcriptomics and Genomics of Phytomedicinals. <i>Postdoc Journal</i> , 2014 , 2,		4
13	Draft genome sequence of the rubber tree <i>Hevea brasiliensis</i> . <i>BMC Genomics</i> , 2013 , 14, 75	4.5	181
12	Developmental variations in sesquiterpenoid biosynthesis in East Indian sandalwood tree (<i>Santalum album</i> L.). <i>Trees - Structure and Function</i> , 2013 , 27, 1071-1086	2.6	22
11	Purification and characterization of a betanidin glucosyltransferase from <i>Amaranthus tricolor</i> L catalyzing non-specific biotransformation of flavonoids. <i>Plant Science</i> , 2013 , 211, 61-9	5.3	11
10	Volatile profiling from heartwood of East Indian sandalwood tree. <i>Journal of Pharmacy Research</i> , 2013 , 7, 299-303		6
9	Evaluation of in vivo anti-hyperglycemic and antioxidant potentials of ßantalol and sandalwood oil. <i>Phytomedicine</i> , 2013 , 20, 409-16	6.5	36
8	Culture of East Indian sandalwood tree somatic embryos in air-lift bioreactors for production of santalols, phenolics and arabinogalactan proteins. <i>AOB PLANTS</i> , 2013 , 5,	2.9	12
7	Biological Activities of East Indian Sandalwood Tree, <i>Santalum album</i> 2013 ,		12
6	TLC-Bioautographic Evaluation of In Vitro Anti-tyrosinase and Anti-cholinesterase Potentials of Sandalwood Oil. <i>Natural Product Communications</i> , 2013 , 8, 1934578X1300800	0.9	6
5	TLC-bioautographic evaluation of in vitro anti-tyrosinase and anti-cholinesterase potentials of sandalwood oil. <i>Natural Product Communications</i> , 2013 , 8, 253-6	0.9	13
4	Comparative phytochemical analysis and antibacterial efficacy of in vitro and in vivo extracts from East Indian sandalwood tree (<i>Santalum album</i> L.). <i>Letters in Applied Microbiology</i> , 2012 , 55, 476-86	2.9	35
3	Biological Activities of East Indian Sandalwood Tree, <i>Santalum album</i>		2
2	Time-course analysis of <i>Streptococcus sanguinis</i> after manganese depletion reveals changes in glycolytic, nucleotide, and redox metabolites		2

1 DIMEdb: an integrated database and web service for metabolite identification in direct infusion mass spectrometry

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