

Biswapriya B. Misra

List of Publications by Year in descending order

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Version: 2024-02-01

73
papers

2,718
citations

201385

27
h-index

205818

48
g-index

91
all docs

91
docs citations

91
times ranked

4390
citing authors

#	ARTICLE	IF	CITATIONS
1	Integrated omics: tools, advances and future approaches. <i>Journal of Molecular Endocrinology</i> , 2019, 62, R21-R45.	1.1	301
2	Draft genome sequence of the rubber tree <i>Hevea brasiliensis</i> . <i>BMC Genomics</i> , 2013, 14, 75.	1.2	222
3	State of the Field in Multi-Omics Research: From Computational Needs to Data Mining and Sharing. <i>Frontiers in Genetics</i> , 2020, 11, 610798.	1.1	180
4	Integrated microbiome and metabolome analysis reveals a novel interplay between commensal bacteria and metabolites in colorectal cancer. <i>Theranostics</i> , 2019, 9, 4101-4114.	4.6	177
5	Plant single-cell and single-cell-type metabolomics. <i>Trends in Plant Science</i> , 2014, 19, 637-646.	4.3	110
6	Updates in metabolomics tools and resources: 2014–2015. <i>Electrophoresis</i> , 2016, 37, 86-110.	1.3	110
7	New software tools, databases, and resources in metabolomics: updates from 2020. <i>Metabolomics</i> , 2021, 17, 49.	1.4	107
8	Jasmonate-mediated stomatal closure under elevated CO_2 revealed by time-resolved metabolomics. <i>Plant Journal</i> , 2016, 88, 947-962.	2.8	87
9	Auto-deconvolution and molecular networking of gas chromatography–mass spectrometry data. <i>Nature Biotechnology</i> , 2021, 39, 169-173.	9.4	78
10	The guard cell metabolome: functions in stomatal movement and global food security. <i>Frontiers in Plant Science</i> , 2015, 6, 334.	1.7	71
11	Challenges and Opportunities in Cancer Metabolomics. <i>Proteomics</i> , 2019, 19, e1900042.	1.3	70
12	Software tools, databases and resources in metabolomics: updates from 2018 to 2019. <i>Metabolomics</i> , 2020, 16, 36.	1.4	70
13	Data normalization strategies in metabolomics: Current challenges, approaches, and tools. <i>European Journal of Mass Spectrometry</i> , 2020, 26, 165-174.	0.5	60
14	Chemodiversity of the Glucosinolate-Myrosinase System at the Single Cell Type Resolution. <i>Frontiers in Plant Science</i> , 2019, 10, 618.	1.7	56
15	New tools and resources in metabolomics: 2016–2017. <i>Electrophoresis</i> , 2018, 39, 909-923.	1.3	54
16	Evaluation of in vivo anti-hyperglycemic and antioxidant potentials of β -santalol and sandalwood oil. <i>Phytomedicine</i> , 2013, 20, 409-416.	2.3	51
17	New nodes and edges in the glucosinolate molecular network revealed by proteomics and metabolomics of <i>Arabidopsis myb28/29</i> and <i>cyp79B2/B3</i> glucosinolate mutants. <i>Journal of Proteomics</i> , 2016, 138, 1-19.	1.2	45
18	Review of emerging metabolomic tools and resources: 2015–2016. <i>Electrophoresis</i> , 2017, 38, 2257-2274.	1.3	45

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19	Comparative phytochemical analysis and antibacterial efficacy of <i>in vitro</i> and <i>in vivo</i> extracts from East Indian sandalwood tree (<i>Santalum album</i> L.). Letters in Applied Microbiology, 2012, 55, 476-486.	1.0	42
20	Ten tips for overcoming language barriers in science. Nature Human Behaviour, 2021, 5, 1119-1122.	6.2	40
21	Polyploidy and the proteome. Biochimica Et Biophysica Acta - Proteins and Proteomics, 2016, 1864, 896-907.	1.1	39
22	Metabolomic Responses of Guard Cells and Mesophyll Cells to Bicarbonate. PLoS ONE, 2015, 10, e0144206.	1.1	38
23	Tools and resources for metabolomics research community: A 2017–2018 update. Electrophoresis, 2019, 40, 227-246.	1.3	37
24	Whole genome sequence analyses of brain imaging measures in the Framingham Study. Neurology, 2018, 90, e188-e196.	1.5	34
25	Advances in understanding CO ₂ responsive plant metabolomes in the era of climate change. Metabolomics, 2015, 11, 1478-1491.	1.4	33
26	High-resolution gas chromatography/mass spectrometry metabolomics of non-human primate serum. Rapid Communications in Mass Spectrometry, 2018, 32, 1497-1506.	0.7	33
27	The chemical exposome of type 2 diabetes mellitus: Opportunities and challenges in the omics era. Diabetes and Metabolic Syndrome: Clinical Research and Reviews, 2020, 14, 23-38.	1.8	31
28	High Resolution GC-Orbitrap-MS Metabolomics Using Both Electron Ionization and Chemical Ionization for Analysis of Human Plasma. Journal of Proteome Research, 2020, 19, 2717-2731.	1.8	27
29	Developmental variations in sesquiterpenoid biosynthesis in East Indian sandalwood tree (<i>Santalum</i>) Tj ETQq1 1 0.784314 rgBT /Overlo 0.9 25		
30	Differential metabolomic responses of PAMP-triggered immunity and effector-triggered immunity in <i>Arabidopsis</i> suspension cells. Metabolomics, 2016, 12, 1.	1.4	23
31	Analysis of serum changes in response to a high fat high cholesterol diet challenge reveals metabolic biomarkers of atherosclerosis. PLoS ONE, 2019, 14, e0214487.	1.1	22
32	The Chemical Exposome of Human Aging. Frontiers in Genetics, 2020, 11, 574936.	1.1	20
33	Advances in high resolution GC-MS technology: a focus on the application of GC-Orbitrap-MS in metabolomics and exposomics for FAIR practices. Analytical Methods, 2021, 13, 2265-2282.	1.3	19
34	The guard cell ionome: Understanding the role of ions in guard cell functions. Progress in Biophysics and Molecular Biology, 2019, 146, 50-62.	1.4	18
35	Short-term effects of the allelochemical umbelliferone on <i>Triticum durum</i> L. metabolism through GC-MS based untargeted metabolomics. Plant Science, 2020, 298, 110548.	1.7	17
36	TLC-bioautographic evaluation of <i>in vitro</i> anti-tyrosinase and anti-cholinesterase potentials of sandalwood oil. Natural Product Communications, 2013, 8, 253-6.	0.2	17

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37	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, .	1.2	16
38	Diversity of methanogenic archaea in freshwater sediments of lacustrine ecosystems. <i>Journal of Basic Microbiology</i> , 2018, 58, 101-119.	1.8	15
39	Optimized GC-MS metabolomics for the analysis of kidney tissue metabolites. <i>Metabolomics</i> , 2018, 14, 75.	1.4	15
40	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, 61-69.	1.7	13
41	Metabolomic Responses of <i>Arabidopsis</i> Suspension Cells to Bicarbonate under Light and Dark Conditions. <i>Scientific Reports</i> , 2016, 6, 35778.	1.6	12
42	Phytotoxicity, Morphological, and Metabolic Effects of the Sesquiterpenoid Nerolidol on <i>Arabidopsis thaliana</i> Seedling Roots. <i>Plants</i> , 2020, 9, 1347.	1.6	12
43	Solute Carrier Family 37 Member 2 (SLC37A2) Negatively Regulates Murine Macrophage Inflammation by Controlling Glycolysis. <i>IScience</i> , 2020, 23, 101125.	1.9	12
44	Untargeted metabolomics in primary murine bone marrow stromal cells reveals distinct profile throughout osteoblast differentiation. <i>Metabolomics</i> , 2021, 17, 86.	1.4	12
45	TLC-Bioautographic Evaluation of In Vitro Anti-tyrosinase and Anti-cholinesterase Potentials of Sandalwood Oil. <i>Natural Product Communications</i> , 2013, 8, 1934578X1300800.	0.2	11
46	When plants brace for the emerging pathogens. <i>Physiological and Molecular Plant Pathology</i> , 2015, 92, 181-185.	1.3	11
47	Nonhuman primate breath volatile organic compounds associate with developmental programming and cardio-metabolic status. <i>Journal of Breath Research</i> , 2018, 12, 036016.	1.5	11
48	Updates on resources, software tools, and databases for plant proteomics in 2016-2017. <i>Electrophoresis</i> , 2018, 39, 1543-1557.	1.3	11
49	The Connection and Disconnection Between Microbiome and Metabolome: A Critical Appraisal in Clinical Research. <i>Biological Research for Nursing</i> , 2020, 22, 561-576.	1.0	11
50	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.	0.4	11
51	The Black-Box of Plant Apoplast Lipidomes. <i>Frontiers in Plant Science</i> , 2016, 7, 323.	1.7	9
52	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.	0.4	9
53	Metabolomics Tools to Study Links Between Pollution and Human Health: an Exposomics Perspective. <i>Current Pollution Reports</i> , 2019, 5, 93-111.	3.1	8
54	Loss of function of lysosomal acid lipase (LAL) profoundly impacts osteoblastogenesis and increases fracture risk in humans. <i>Bone</i> , 2021, 148, 115946.	1.4	8

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55	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.	1.4	7
56	Volatile profiling from heartwood of East Indian sandalwood tree. <i>Journal of Pharmacy Research</i> , 2013, 7, 299-303.	0.4	6
57	Cataloging the <i>Brassica napus</i> seed metabolome. <i>Cogent Food and Agriculture</i> , 2016, 2, .	0.6	6
58	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.	2.9	6
59	Individualized metabolomics: opportunities and challenges. <i>Clinical Chemistry and Laboratory Medicine</i> , 2020, 58, 939-947.	1.4	6
60	Causal reasoning over knowledge graphs leveraging drug-perturbed and disease-specific transcriptomic signatures for drug discovery. <i>PLoS Computational Biology</i> , 2022, 18, e1009909.	1.5	6
61	An Updated Snapshot of Recent Advances in Transcriptomics and Genomics of Phytomedicinals. <i>Postdoc Journal</i> , 2014, 2, .	0.4	4
62	Is a plant's ploidy status reflected in its metabolome?. <i>Postdoc Journal</i> , 2015, 3, .	0.4	4
63	Plant Volatilome Resources. <i>Current Metabolomics</i> , 2016, 4, 148-150.	0.5	4
64	Mass Spectrometry-Based Proteome Profiling of Extracellular Vesicles Derived from the Cerebrospinal Fluid of Adult Rhesus Monkeys Exposed to Cocaine throughout Gestation. <i>Biomolecules</i> , 2022, 12, 510.	1.8	4
65	Immunolocalization of α -santalol in sandalwood. <i>Journal of Essential Oil Research</i> , 2014, 26, 238-246.	1.3	2
66	Visual gene network analysis of aging-specific gene co-expression in human indicates overlaps with immuno-pathological regulations. <i>4open</i> , 2018, 1, 4.	0.1	2
67	Antidiabetic effect of <i>Cephalandra indica</i> Q in diabetic rats. <i>Indian Journal of Research in Homoeopathy</i> , 2013, 7, 81.	0.2	2
68	2392. <i>Journal of Clinical and Translational Science</i> , 2017, 1, 64-64.	0.3	0
69	The Plant Subcellular Metabolome: Current State and Advances. <i>Postdoc Journal</i> , 2015, 3, .	0.4	0
70	Solute Carrier (SLC)37A2 Negatively Regulates Macrophage Inflammation by Controlling Glycolysis. <i>SSRN Electronic Journal</i> , 0, .	0.4	0
71	Perspectives on Multi-Omics and Omics Applications in Biomedical Research: an Interview with Dr. Biswapriya B. Misra. <i>Journal of Applied Bioanalysis</i> , 2020, 6, 93-97.	0.2	0
72	Editorial for special issue: Metabolomics in India. <i>Analytical Science Advances</i> , 2021, 2, 495-496.	1.2	0

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73	Perspectives on Multi-Omics and Omics Applications in Biomedical Research: an Interview with Dr. Biswapriya B. Misra. Journal of Applied Bioanalysis, 2020, 6, 93-96.	0.2	0