

Paul E Abraham

List of Publications by Year in descending order

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Version: 2024-02-01

27
papers

716
citations

687363

13
h-index

580821

25
g-index

29
all docs

29
docs citations

29
times ranked

1091
citing authors

#	ARTICLE	IF	CITATIONS
1	Transcript, protein and metabolite temporal dynamics in the CAM plant Agave. <i>Nature Plants</i> , 2016, 2, 16178.	9.3	158
2	Eliminating a global regulator of carbon catabolite repression enhances the conversion of aromatic lignin monomers to muconate in <i>Pseudomonas putida</i> KT2440. <i>Metabolic Engineering Communications</i> , 2017, 5, 19-25.	3.6	93
3	Outer membrane vesicles catabolize lignin-derived aromatic compounds in <i>Pseudomonas putida</i> KT2440. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2020, 117, 9302-9310.	7.1	82
4	Metabolism of syringyl lignin-derived compounds in <i>Pseudomonas putida</i> enables convergent production of 2-pyrone-4,6-dicarboxylic acid. <i>Metabolic Engineering</i> , 2021, 65, 111-122.	7.0	48
5	The nature of the progression of drought stress drives differential metabolomic responses in <i>Populus deltoides</i> . <i>Annals of Botany</i> , 2019, 124, 617-626.	2.9	45
6	Defining the Boundaries and Characterizing the Landscape of Functional Genome Expression in Vascular Tissues of <i>Populus</i> using Shotgun Proteomics. <i>Journal of Proteome Research</i> , 2012, 11, 449-460.	3.7	44
7	Putting the Pieces Together: High-performance LC-MS/MS Provides Network-, Pathway-, and Protein-level Perspectives in <i>Populus</i> . <i>Molecular and Cellular Proteomics</i> , 2013, 12, 106-119.	3.8	26
8	Ecosystem consequences of introducing plant growth promoting rhizobacteria to managed systems and potential legacy effects. <i>New Phytologist</i> , 2022, 234, 1914-1918.	7.3	22
9	Advances and perspectives in discovery and functional analysis of small secreted proteins in plants. <i>Horticulture Research</i> , 2021, 8, 130.	6.3	20
10	Quantitative proteome profile of water deficit stress responses in eastern cottonwood (<i>Populus</i>) Tj ETQq0 0 0 rgBT/Overlock, 10 Tf 50 3	2.5	17
11	Exploiting the Dynamic Relationship between Peptide Separation Quality and Peptide Coisolation in a Multiple-Peptide Matches-per-Spectrum Approach Offers a Strategy To Optimize Bottom-Up Proteomics Throughput and Depth. <i>Analytical Chemistry</i> , 2019, 91, 7273-7279.	6.5	17
12	Evaluation of an untargeted nano-liquid chromatography-mass spectrometry approach to expand coverage of low molecular weight dissolved organic matter in Arctic soil. <i>Scientific Reports</i> , 2019, 9, 5810.	3.3	16
13	Plant Biosystems Design Research Roadmap 1.0. <i>Biodesign Research</i> , 2020, 2020, .	1.9	16
14	Towards engineering ectomycorrhization into switchgrass bioenergy crops via a lectin receptor-like kinase. <i>Plant Biotechnology Journal</i> , 2021, 19, 2454-2468.	8.3	14
15	Proteomic and metabolic disturbances in lignin-modified <i>Brachypodium distachyon</i> . <i>Plant Cell</i> , 2022, 34, 3339-3363.	6.6	14
16	Formation, characterization and modeling of emergent synthetic microbial communities. <i>Computational and Structural Biotechnology Journal</i> , 2021, 19, 1917-1927.	4.1	12
17	A lysate proteome engineering strategy for enhancing cell-free metabolite production. <i>Metabolic Engineering Communications</i> , 2021, 12, e00162.	3.6	11
18	Metaproteomics reveals insights into microbial structure, interactions, and dynamic regulation in defined communities as they respond to environmental disturbance. <i>BMC Microbiology</i> , 2021, 21, 308.	3.3	11

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19	A Viable New Strategy for the Discovery of Peptide Proteolytic Cleavage Products in Plant-Microbe Interactions. <i>Molecular Plant-Microbe Interactions</i> , 2020, 33, 1177-1188.	2.6	8
20	Plant-Based Biosensors for Detecting CRISPR-Mediated Genome Engineering. <i>ACS Synthetic Biology</i> , 2021, 10, 3600-3603.	3.8	7
21	A carotenoid-deficient mutant of the plant-associated microbe <i>Pantoea</i> sp. YR343 displays an altered membrane proteome. <i>Scientific Reports</i> , 2020, 10, 14985.	3.3	6
22	Structural and Proteomic Studies of the <i>Aureococcus anophagefferens</i> Virus Demonstrate a Global Distribution of Virus-Encoded Carbohydrate Processing. <i>Frontiers in Microbiology</i> , 2020, 11, 2047.	3.5	5
23	The Moderately (D)efficient Enzyme: Catalysis-Related Damage <i>In Vivo</i> and Its Repair. <i>Biochemistry</i> , 2021, 60, 3555-3565.	2.5	5
24	Advancing How We Learn from Biodesign to Mitigate Risks with Next-Generation Genome Engineering. <i>Biodesign Research</i> , 2020, 2020, .	1.9	4
25	Development of an Experimental Approach to Achieve Spatially Resolved Plant Root-Associated Metaproteomics Using an Agar-Plate System. <i>Molecular Plant-Microbe Interactions</i> , 2022, 35, 639-649.	2.6	3
26	Molecular Remodeling in <i>Populus</i> PdkOR RNAi Roots Profiled Using LC-MS/MS Proteomics. <i>Proteomics</i> , 2020, 20, 2000067.	2.2	0
27	Temporal dynamics of protein and post-translational modification abundances in <i>Populus</i> leaf across a diurnal period. <i>Proteomics</i> , 2021, 21, 2100127.	2.2	0