

Lizelle A Piater

List of Publications by Citations

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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.

65
papers

2,242
citations

21
h-index

47
g-index

71
ext. papers

2,845
ext. citations

4.6
avg, IF

5.28
L-index

#	Paper	IF	Citations
65	Innate immunity in plants and animals: striking similarities and obvious differences. <i>Immunological Reviews</i> , 2004 , 198, 249-66	11.3	923
64	The Chemistry of Plant-Microbe Interactions in the Rhizosphere and the Potential for Metabolomics to Reveal Signaling Related to Defense Priming and Induced Systemic Resistance. <i>Frontiers in Plant Science</i> , 2018 , 9, 112	6.2	202
63	Plant metabolomics: A new frontier in phytochemical analysis. <i>South African Journal of Science</i> , 2013 , 1-11	1.3	89
62	Analyses of chlorogenic acids and related cinnamic acid derivatives from <i>Nicotiana tabacum</i> tissues with the aid of UPLC-QTOF-MS/MS based on the in-source collision-induced dissociation method. <i>Chemistry Central Journal</i> , 2014 , 8, 66		87
61	Subcritical Water Extraction of Biological Materials. <i>Separation and Purification Reviews</i> , 2017 , 46, 21-34	7.3	59
60	Metabolomics in Plant Priming Research: The Way Forward?. <i>International Journal of Molecular Sciences</i> , 2018 , 19,	6.3	47
59	Multi-platform metabolomic analyses of ergosterol-induced dynamic changes in <i>Nicotiana tabacum</i> cells. <i>PLoS ONE</i> , 2014 , 9, e87846	3.7	46
58	A Conversation on Data Mining Strategies in LC-MS Untargeted Metabolomics: Pre-Processing and Pre-Treatment Steps. <i>Metabolites</i> , 2016 , 6,	5.6	42
57	Ergosterol, an orphan fungal microbe-associated molecular pattern (MAMP). <i>Molecular Plant Pathology</i> , 2014 , 15, 747-61	5.7	39
56	Biostimulants for Plant Growth and Mitigation of Abiotic Stresses: A Metabolomics Perspective. <i>Metabolites</i> , 2020 , 10,	5.6	39
55	Metabolomic Analysis of Defense-Related Reprogramming in in Response to Infection Reveals a Functional Metabolic Web of Phenylpropanoid and Flavonoid Pathways. <i>Frontiers in Plant Science</i> , 2018 , 9, 1840	6.2	38
54	Phenylpropanoid Defences in <i>Nicotiana tabacum</i> Cells: Overlapping Metabolomes Indicate Common Aspects to Priming Responses Induced by Lipopolysaccharides, Chitosan and Flagellin-22. <i>PLoS ONE</i> , 2016 , 11, e0151350	3.7	37
53	Perturbation of pharmacologically relevant polyphenolic compounds in <i>Moringa oleifera</i> against photo-oxidative damages imposed by gamma radiation. <i>Journal of Photochemistry and Photobiology B: Biology</i> , 2016 , 156, 79-86	6.7	35
52	Priming agents of plant defence stimulate the accumulation of mono- and di-acylated quinic acids in cultured tobacco cells. <i>Physiological and Molecular Plant Pathology</i> , 2014 , 88, 61-66	2.6	34
51	Multivariate statistical models of metabolomic data reveals different metabolite distribution patterns in isonitrosoacetophenone-elicited <i>Nicotiana tabacum</i> and <i>Sorghum bicolor</i> cells. <i>SpringerPlus</i> , 2014 , 3, 254		34
50	Profiling of Altered Metabolomic States in Cells Induced by Priming Agents. <i>Frontiers in Plant Science</i> , 2016 , 7, 1527	6.2	32
49	Differential extraction of phytochemicals from the multipurpose tree, <i>Moringa oleifera</i> , using green extraction solvents. <i>South African Journal of Botany</i> , 2018 , 115, 81-89	2.9	31

48	Reduction of vanadium(V) by <i>Enterobacter cloacae</i> EV-SA01 isolated from a South African deep gold mine. <i>Biotechnology Letters</i> , 2009 , 31, 845-9	3	28
47	Untargeted Metabolomics Reveal Defensome-Related Metabolic Reprogramming in against Infection by. <i>Metabolites</i> , 2019 , 9,	5.6	24
46	Collision energy alteration during mass spectrometric acquisition is essential to ensure unbiased metabolomic analysis. <i>Analytical and Bioanalytical Chemistry</i> , 2012 , 404, 367-72	4.4	23
45	Ergosterol-induced sesquiterpenoid synthesis in tobacco cells. <i>Molecules</i> , 2012 , 17, 1698-715	4.8	22
44	Metabolomics: A Tool for Cultivar Phenotyping and Investigation of Grain Crops. <i>Agronomy</i> , 2020 , 10, 831	3.6	21
43	Distribution patterns of flavonoids from three <i>Momordica</i> species by ultra-high performance liquid chromatography quadrupole time of flight mass spectrometry: a metabolomic profiling approach. <i>Revista Brasileira De Farmacognosia</i> , 2016 , 26, 507-513	2	21
42	The Lipopolysaccharide-Induced Metabolome Signature in <i>Arabidopsis thaliana</i> Reveals Dynamic Reprogramming of Phytoalexin and Phytoanticipin Pathways. <i>PLoS ONE</i> , 2016 , 11, e0163572	3.7	21
41	Secondary metabolite perturbations in <i>Phaseolus vulgaris</i> leaves due to gamma radiation. <i>Plant Physiology and Biochemistry</i> , 2015 , 97, 287-95	5.4	17
40	Mass spectrometry in untargeted liquid chromatography/mass spectrometry metabolomics: Electrospray ionisation parameters and global coverage of the metabolome. <i>Rapid Communications in Mass Spectrometry</i> , 2018 , 32, 121-132	2.2	16
39	Identification of lipopolysaccharide-interacting plasma membrane-type proteins in <i>Arabidopsis thaliana</i> . <i>Plant Physiology and Biochemistry</i> , 2017 , 111, 155-165	5.4	15
38	Unravelling the Metabolic Reconfiguration of the Post-Challenge Primed State in Responding to Infection. <i>Metabolites</i> , 2019 , 9,	5.6	15
37	Hydroxycinnamate Amides: Intriguing Conjugates of Plant Protective Metabolites. <i>Trends in Plant Science</i> , 2021 , 26, 184-195	13.1	14
36	A Metabolomic Landscape of Maize Plants Treated With a Microbial Biostimulant Under Well-Watered and Drought Conditions. <i>Frontiers in Plant Science</i> , 2021 , 12, 676632	6.2	13
35	Metabolomic analysis of isonitrosoacetophenone-induced perturbations in phenolic metabolism of <i>Nicotiana tabacum</i> cells. <i>Phytochemistry</i> , 2013 , 94, 82-90	4	12
34	Metabolic Profiling of PGPR-Treated Tomato Plants Reveal Priming-Related Adaptations of Secondary Metabolites and Aromatic Amino Acids. <i>Metabolites</i> , 2020 , 10,	5.6	12
33	Simultaneous analysis of defense-related phytohormones in <i>Arabidopsis thaliana</i> responding to fungal infection. <i>Applications in Plant Sciences</i> , 2016 , 4, 1600013	2.3	11
32	Identification of Candidate Ergosterol-Responsive Proteins Associated with the Plasma Membrane of. <i>International Journal of Molecular Sciences</i> , 2019 , 20,	6.3	10
31	Adaptive defence-related changes in the metabolome of <i>Sorghum bicolor</i> cells in response to lipopolysaccharides of the pathogen <i>Burkholderia andropogonis</i> . <i>Scientific Reports</i> , 2020 , 10, 7626	4.9	10

30	Comparative conventional- and quantum dot-labeling strategies for LPS binding site detection in <i>Arabidopsis thaliana</i> mesophyll protoplasts. <i>Frontiers in Plant Science</i> , 2015 , 6, 335	6.2	8
29	Time-resolved decoding of metabolic signatures of in vitro growth of the hemibiotrophic pathogen <i>Colletotrichum sublineolum</i> . <i>Scientific Reports</i> , 2019 , 9, 3290	4.9	7
28	The NAC transcription factor gene ANAC072 is differentially expressed in <i>Arabidopsis thaliana</i> in response to microbe-associated molecular pattern (MAMP) molecules. <i>Physiological and Molecular Plant Pathology</i> , 2012 , 80, 19-27	2.6	7
27	Untargeted metabolomics analysis reveals dynamic changes in azelaic acid- and salicylic acid derivatives in LPS-treated <i>Nicotiana tabacum</i> cells. <i>Biochemical and Biophysical Research Communications</i> , 2017 , 482, 1498-1503	3.4	6
26	The Short and Long of it: Shorter Chromatographic Analysis Suffice for Sample Classification During UHPLC-MS-Based Metabolic Fingerprinting. <i>Chromatographia</i> , 2013 , 76, 279-285	2.1	6
25	A thioredoxin reductase-like protein from the thermophile, <i>Thermus scotoductus</i> SA-01, displaying iron reductase activity. <i>FEMS Microbiology Letters</i> , 2010 , 302, 182-8	2.9	6
24	Lipopolysaccharide perception in <i>Arabidopsis thaliana</i> : Diverse LPS chemotypes from <i>Burkholderia cepacia</i> , <i>Pseudomonas syringae</i> and <i>Xanthomonas campestris</i> trigger differential defence-related perturbations in the metabolome. <i>Plant Physiology and Biochemistry</i> , 2020 , 156, 267-277	5.4	6
23	Concurrent Metabolic Profiling and Quantification of Aromatic Amino Acids and Phytohormones in Plants Responding to. <i>Metabolites</i> , 2020 , 10,	5.6	6
22	Metabolomic Evaluation of Tissue-Specific Defense Responses in Tomato Plants Modulated by PGPR-Priming against Infection. <i>Plants</i> , 2021 , 10,	4.5	6
21	Molecular mechanisms associated with microbial biostimulant-mediated growth enhancement, priming and drought stress tolerance in maize plants. <i>Scientific Reports</i> , 2022 , 12,	4.9	6
20	Metabolomics-guided investigations of unintended effects of the expression of the hydroxycinnamoyl quinate hydroxycinnamoyltransferase (hqt1) gene from <i>Cynara cardunculus</i> var. <i>scolymus</i> in <i>Nicotiana tabacum</i> cell cultures. <i>Plant Physiology and Biochemistry</i> , 2018 , 127, 287-298	5.4	5
19	Metabolomic insights into the bioconversion of isonitrosoacetophenone in <i>Arabidopsis thaliana</i> and its effects on defense-related pathways. <i>Plant Physiology and Biochemistry</i> , 2014 , 84, 87-95	5.4	5
18	Gamma radiation treatment activates glucomoringin synthesis in <i>Moringa oleifera</i> . <i>Revista Brasileira De Farmacognosia</i> , 2017 , 27, 569-575	2	5
17	Isonitrosoacetophenone drives transcriptional reprogramming in <i>Nicotiana tabacum</i> cells in support of innate immunity and defense. <i>PLoS ONE</i> , 2015 , 10, e0117377	3.7	5
16	Biotransformation of isonitrosoacetophenone (2-keto-2-phenyl-acetaldoxime) in tobacco cell suspensions. <i>Biotechnology Letters</i> , 2012 , 34, 1351-6	3	5
15	Plant Responses to Abiotic Stresses and Rhizobacterial Biostimulants: Metabolomics and Epigenetics Perspectives. <i>Metabolites</i> , 2021 , 11,	5.6	5
14	Proteomic analysis of <i>Arabidopsis</i> plasma membranes reveals lipopolysaccharide-responsive changes. <i>Biochemical and Biophysical Research Communications</i> , 2017 , 486, 1137-1142	3.4	4
13	Prospects of Gene Knockouts in the Functional Study of MAMP-Triggered Immunity: A Review. <i>International Journal of Molecular Sciences</i> , 2020 , 21,	6.3	4

12	Metabolomics for Biomarker Discovery: Key Signatory Metabolic Profiles for the Identification and Discrimination of Oat Cultivars. <i>Metabolites</i> , 2021 , 11,	5.6	3
11	Subcritical Water Extraction and Its Prospects for Aflatoxins Extraction in Biological Materials 2017 ,		2
10	A Global Metabolic Map Defines the Effects of a Si-Based Biostimulant on Tomato Plants under Normal and Saline Conditions.. <i>Metabolites</i> , 2021 , 11,	5.6	2
9	Soil Salinity, a Serious Environmental Issue and Plant Responses: A Metabolomics Perspective. <i>Metabolites</i> , 2021 , 11,	5.6	2
8	Identification of MAMP-Responsive Plasma Membrane-Associated Proteins in Following Challenge with Different LPS Chemotypes from. <i>Pathogens</i> , 2020 , 9,	4.5	2
7	Habituated <i>Moringa oleifera</i> callus retains metabolic responsiveness to external plant growth regulators. <i>Plant Cell, Tissue and Organ Culture</i> , 2019 , 137, 249-264	2.7	1
6	Cloning of the <i>cnr</i> operon into a strain of Bacillaceae bacterium for the development of a suitable biosorbent. <i>World Journal of Microbiology and Biotechnology</i> , 2016 , 32, 114	4.4	1
5	The Disruptive 4IR in the Life Sciences: Metabolomics. <i>Lecture Notes in Electrical Engineering</i> , 2020 , 227-256		1
4	Lipopolysaccharides trigger synthesis of the allelochemical sorgoleone in cell cultures of. <i>Plant Signaling and Behavior</i> , 2020 , 15, 1796340	2.5	1
3	Altered metabolomic states elicited by Flg22 and FlgII-28 in <i>Solanum lycopersicum</i> : intracellular perturbations and metabolite defenses. <i>BMC Plant Biology</i> , 2021 , 21, 429	5.3	1
2	Metabolomic Evaluation of Cold Shock Protein Peptide (<i>csp22</i>)-Induced Responses in .. <i>Frontiers in Plant Science</i> , 2021 , 12, 803104	6.2	0
1	Untargeted Metabolomics Profiling of <i>Arabidopsis</i> WT, <i>lbr-2-2</i> and <i>bak1-4</i> Mutants Following Treatment with Two LPS Chemotypes. <i>Metabolites</i> , 2022 , 12, 379	5.6	0