Luis Aj Mur

List of Publications by Year
in descending order

Source: https://exaly.com/author-pdf/2855653/publications.pdf

Version: 2024-02-01

195	12,120	22132	30058
papers	citations	59 h-index	103 g-index

217	217	217	15939
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	The Outcomes of Concentration-Specific Interactions between Salicylate and Jasmonate Signaling Include Synergy, Antagonism, and Oxidative Stress Leading to Cell Death. Plant Physiology, 2006, 140, 249-262.	2.3	747
2	The hypersensitive response; the centenary is upon us but how much do we know?. Journal of Experimental Botany, 2008, 59, 501-520.	2.4	597
3	Brachypodium distachyon. A New Model System for Functional Genomics in Grasses. Plant Physiology, 2001, 127, 1539-1555.	2.3	490
4	Morphological classification of plant cell deaths. Cell Death and Differentiation, 2011, 18, 1241-1246.	5.0	481
5	Nitric oxide in plants: an assessment of the current state of knowledge. AoB PLANTS, 2013, 5, pls052-pls052.	1.2	392
6	Jasmonates act with salicylic acid to confer basal thermotolerance in Arabidopsis thaliana. New Phytologist, 2009, 182, 175-187.	3.5	311
7	Salicylic acid dependent signaling promotes basal thermotolerance but is not essential for acquired thermotolerance inArabidopsis thaliana. Plant Journal, 2004, 38, 432-447.	2.8	304
8	Extensive gene content variation in the Brachypodium distachyon pan-genome correlates with population structure. Nature Communications, 2017, 8, 2184.	5.8	269
9	Aspirin, salicylates, and cancer. Lancet, The, 2009, 373, 1301-1309.	6.3	265
10	Hydrogen peroxide does not function downstream of salicylic acid in the induction of PR protein expression. Plant Journal, 1995, 8, 235-245.	2.8	247
11	Brachypodium as a Model for the Grasses: Today and the Future Â. Plant Physiology, 2011, 157, 3-13.	2.3	243
12	Salicylate Accumulation Inhibits Growth at Chilling Temperature in Arabidopsis. Plant Physiology, 2004, 135, 1040-1049.	2.3	233
13	NO way to live; the various roles of nitric oxide in plantâ€“pathogen interactions. Journal of Experimental Botany, 2006, 57, 489-505.	2.4	207
14	Salicylic acid potentiates defence gene expression in tissue exhibiting acquired resistance to pathogen attack. Plant Journal, 1996, 9, 559-571.	2.8	184
15	Integrating nitric oxide into salicylic acid and jasmonic acid/ ethylene plant defense pathways. Frontiers in Plant Science, 2013, 4, 215.	1.7	167
16	Evolution and taxonomic split of the model grass Brachypodium distachyon. Annals of Botany, 2012, 109, 385-405.	1.4	166
17	Evaluation of FTIR Spectroscopy as a diagnostic tool for lung cancer using sputum. BMC Cancer, 2010, 10, 640.	1.1	159
18	Compromising early salicylic acid accumulation delays the hypersensitive response and increases viral dispersal during lesion establishment in TMV-infected tobacco. Plant Journal, 1997, 12, 1113-1126.	2.8	152

#	Article	IF	Citations
19	Functional homologs of the Arabidopsis RPM1 disease resistance gene in bean and pea.. Plant Cell, 1992, 4, 1359-1369.	3.1	151
20	Exploiting the Brachypodium Tool Box in cereal and grass research. New Phytologist, 2011, 191, 334-347.	3.5	148
21	Development of Genetic and Genomic Research Resources for Brachypodium distachyon, a New Model System for Grass Crop Research. Crop Science, 2008, 48, S-69.	0.8	133
22	Moving nitrogen to the centre of plant defence against pathogens. Annals of Botany, 2017, 119, mcw179.	1.4	133
23	A mutation in the Cap Binding Protein 20 gene confers drought. Plant Molecular Biology, 2004, 55, 679-686.	2.0	130
24	A pilot study using metagenomic sequencing of the sputum microbiome suggests potential bacterial biomarkers for lung cancer. PLoS ONE, 2017, 12, e0177062.	1.1	124
25	Methods of nitric oxide detection in plants: A commentary. Plant Science, 2011, 181, 509-519.	1.7	119
26	Haemoglobin modulates salicylate and jasmonate/ethylene-mediated resistance mechanisms against pathogens. Journal of Experimental Botany, 2012, 63, 4375-4387.	2.4	117
27	The form of nitrogen nutrition affects resistance against Pseudomonas syringae pv. phaseolicola in tobacco. Journal of Experimental Botany, 2013, 64, 553-568.	2.4	116
28	Metabolomic approaches reveal that phosphatidic and phosphatidyl glycerol phospholipids are major discriminatory nonâ€polar metabolites in responses by Brachypodium distachyon to challenge by Magnaporthe grisea. Plant Journal, 2006, 46, 351-368.	2.8	115
29	Plant hemoglobins: Important players at the crossroads between oxygen and nitric oxide. FEBS Letters, 2011, 585, 3843-3849.	1.3	113
30	Haemoglobin modulates NO emission and hyponasty under hypoxia-related stress in Arabidopsis thaliana. Journal of Experimental Botany, 2012, 63, 5581-5591.	2.4	108
31	Nitric Oxide Interacts with Salicylate to Regulate Biphasic Ethylene Production during the Hypersensitive Response. Plant Physiology, 2008, 148, 1537-1546.	2.3	102
32	Nitric oxide counters ethylene effects on ripening fruits. Plant Signaling and Behavior, 2012, 7, 476-483.	1.2	101
33	Unravelling the Roles of Nitrogen Nutrition in Plant Disease Defences. International Journal of Molecular Sciences, 2020, 21, 572.	1.8	100
34	Defining the Genetic Basis of Plantâ€“Endophytic Bacteria Interactions. International Journal of Molecular Sciences, 2019, 20, 1947.	1.8	97
35	The control of chlorophyll catabolism and the status of yellowing as a biomarker of leaf senescence. Plant Biology, 2008, 10, 4-14.	1.8	96
36	A novel function for a redoxâ€related LEA protein (SAG21/AtLEA5) in root development and biotic stress responses. Plant, Cell and Environment, 2012, 35, 418-429.	2.8	93

#	Article	IF	Citations
37	Untargeted metabolomics reveals a new mode of action of pretomanid (PA-824). Scientific Reports, 2018, 8, 5084.	1.6	92
38	Accumulation of chlorophyll catabolites photosensitizes the hypersensitive response elicited by Pseudomonas syringae in Arabidopsis. New Phytologist, 2010, 188, 161-174.	3.5	91
39	A loss of resistance to avirulent bacterial pathogens in tobacco is associated with the attenuation of a salicylic acid-potentiated oxidative burst. Plant Journal, 2000, 23, 609-621.	2.8	90
40	Coupled cryoconite ecosystem structure-function relationships are revealed by comparing bacterial communities in alpine and Arctic glaciers. FEMS Microbiology Ecology, 2014, 89, 222-237.	1.3	90
41	Dual metabolomics: A novel approach to understanding plantâ€“pathogen interactions. Phytochemistry, 2010, 71, 590-597.	1.4	88
42	Nitric oxide contributes both to papilla-based resistance and the hypersensitive response in barley attacked byBlumeria graminisf. sp.hordei. Molecular Plant Pathology, 2005, 6, 65-78.	2.0	87
43	Physiological and growth responses to water deficit in the bioenergy crop Miscanthus x giganteus. Frontiers in Plant Science, 2013, 4, 468.	1.7	82
44	Laser Photoacoustic Detection Allows in Planta Detection of Nitric Oxide in Tobacco following Challenge with Avirulent and Virulent Pseudomonas syringae Pathovars. Plant Physiology, 2005, 138, 1247-1258.	2.3	81
45	Reduced nitric oxide levels during drought stress promote drought tolerance in barley and is associated with elevated polyamine biosynthesis. Scientific Reports, 2017, 7, 13311.	1.6	79
46	Avirulence genes from Pseudomonas syringae pathovars phaseolicola and pisi confer specificity towards both host and non-host species. Physiological and Molecular Plant Pathology, 1992, 40, 1-15.	1.3	78
47	Metabolomic approaches reveal that cell wall modifications play a major role in ethyleneâ€mediated resistance against Botrytis cinerea. Plant Journal, 2011, 67, 852-868.	2.8	77
48	The human salivary microbiome exhibits temporal stability in bacterial diversity. FEMS Microbiology Ecology, 2015, 91, fiv091.	1.3	75
49	Functions of silicon in plant drought stress responses. Horticulture Research, 2021, 8, 254.	2.9	75
50	A metabolomic study in oats (<scp>A</scp>vena sativa) highlights a drought tolerance mechanism based upon salicylate signalling pathways and the modulation of carbon, antioxidant and photoâ€oxidative metabolism. Plant, Cell and Environment, 2015, 38, 1434-1452.	2.8	73
51	Environmental niche variation and evolutionary diversification of the Brachypodium distachyon grass complex species in their native circumâ€Mediterranean range. American Journal of Botany, 2015, 102, 1073-1088.	0.8	73
52	Magnaporthe grisea interactions with the model grass Brachypodium distachyon closely resemble those with rice (Oryza sativa). Molecular Plant Pathology, 2004, 5, 253-265.	2.0	72
53	A discrete role for alternative oxidase under hypoxia to increase nitric oxide and drive energy production. Free Radical Biology and Medicine, 2018, 122, 40-51.	1.3	72
54	Modulation of Pb-induced stress in Prosopis shoots through an interconnected network of signaling molecules, phenolic compounds and amino acids. Plant Physiology and Biochemistry, 2016, 99, 11-20.	2.8	69

#	Article	IF	Citations
55	Fatty Acid Profile Changes During Gradual Soil Water Depletion in Oats Suggests a Role for Jasmonates in Coping With Drought. Frontiers in Plant Science, 2018, 9, 1077.	1.7	69
56	Nitric oxide and hydrogen sulfide protect plasma membrane integrity and mitigate chromium-induced methylglyoxal toxicity in maize seedlings. Plant Physiology and Biochemistry, 2020, 157, 244-255.	2.8	68
57	Pathogen-derived nitric oxide influences formation of the appressorium infection structure in the phytopathogenic fungus Blumeria graminis. Research in Microbiology, 2008, 159, 476-480.	1.0	67
58	Taxon interactions control the distributions of cryoconite bacteria colonizing a High Arctic ice cap. Molecular Ecology, 2016, 25, 3752-3767.	2.0	67
59	Gradual polyploid genome evolution revealed by pan-genomic analysis of Brachypodium hybridum and its diploid progenitors. Nature Communications, 2020, 11, 3670.	5.8	67
60	Nitric oxide generation in Vicia faba phloem cells reveals them to be sensitive detectors as well as possible systemic transducers of stress signals. New Phytologist, 2008, 178, 634-646.	3.5	66
61	ABA Suppresses Botrytis cinerea Elicited NO Production in Tomato to Influence H2O2 Generation and Increase Host Susceptibility. Frontiers in Plant Science, 2016, 7, 709.	1.7	65
62	The metabolomic detection of lung cancer biomarkers in sputum. Lung Cancer, 2016, 94, 88-95.	0.9	63
63	(â€")-Jasmonic Acid Accumulation in Tobacco Hypersensitive Response Lesions. Molecular Plant-Microbe Interactions, 1999, 12, 74-78.	1.4	62
64	Update on the genomics and basic biology of Brachypodium. Trends in Plant Science, 2014, 19, 414-418.	4.3	60
65	Plant Species and Heavy Metals Affect Biodiversity of Microbial Communities Associated With Metal-Tolerant Plants in Metalliferous Soils. Frontiers in Microbiology, 2018, 9, 1425.	1.5	59
66	Stomatal lock-open, a consequence of epidermal cell death, follows transient suppression of stomatal opening in barley attacked by Blumeria graminis. Journal of Experimental Botany, 2006, 57, 2211-2226.	2.4	58
67	Genetic Diversity and Population Structure Among Oat Cultivars and Landraces. Plant Molecular Biology Reporter, 2013, 31, 1305-1314.	1.0	55
68	Trichoderma asperelloides Suppresses Nitric Oxide Generation Elicited by Fusarium oxysporum in Arabidopsis Roots. Molecular Plant-Microbe Interactions, 2014, 27, 307-314.	1.4	55
69	Ethylene Regulates Monomeric GTP-Binding Protein Gene Expression and Activity in Arabidopsis. Plant Physiology, 2003, 131, 1705-1717.	2.3	53
70	Linking Dynamic Phenotyping with Metabolite Analysis to Study Natural Variation in Drought Responses of Brachypodium distachyon. Frontiers in Plant Science, 2016, 7, 1751.	1.7	53
71	The role of nitrite and nitric oxide under low oxygen conditions in plants. New Phytologist, 2020, 225, 1143-1151.	3.5	49
72	In planta measurements of oxidative bursts elicited by avirulent and virulent bacterial pathogens suggests that H2O2 is insufficient to elicit cell death in tobacco. Plant, Cell and Environment, 2005, 28, 548-561.	2.8	46

#	Article	IF	Citations
73	Metagenomic Sequencing of the Chronic Obstructive Pulmonary Disease Upper Bronchial Tract Microbiome Reveals Functional Changes Associated with Disease Severity. PLoS ONE, 2016, 11, e0149095.	1.1	46
74	The application of MANOVA to analyse Arabidopsis thaliana metabolomic data from factorially designed experiments. Metabolomics, 2007, 3, 517-530.	1.4	45
75	Isolation and characterization of cloned DNA conferring specific avirulence in Pseudomonas syringae pv. pisi to pea (Pisum sativum) cultivars, which possess the resistance allele, R2. Physiological and Molecular Plant Pathology, 1989, 34, 335-344.	1.3	43
76	Genome-wide association study for crown rust (Puccinia coronata f. sp. avenae) and powdery mildew (Blumeria graminis f. sp. avenae) resistance in an oat (Avena sativa) collection of commercial varieties and landraces. Frontiers in Plant Science, 2015, 6, 103.	1.7	43
77	NO way to treat a cold. New Phytologist, 2011, 189, 360-363.	3.5	39
78	Exogenous application of hydrogen sulfide reduces chromium toxicity in maize seedlings by suppressing NADPH oxidase activities and methylglyoxal accumulation. Plant Physiology and Biochemistry, 2020, 154, 646-656.	2.8	39
79	Effects of bovine colostrum supplementation on upper respiratory illness in active males. Brain, Behavior, and Immunity, 2014, 39, 194-203.	2.0	36
80	NO and ROS homeostasis in mitochondria: a central role for alternative oxidase. New Phytologist, 2012, 195, 1-3.	3.5	35
81	Regulatory role of nitric oxide in plants. Russian Journal of Plant Physiology, 2015, 62, 427-440.	0.5	35
82	Metabolomeâ€mediated biocryomorphic evolution promotes carbon fixation in <scp>G</scp>reenlandic cryoconite holes. Environmental Microbiology, 2016, 18, 4674-4686.	1.8	35
83	Nitric oxide donor, sodium nitroprusside modulates hydrogen sulfide metabolism and cysteine homeostasis to aid the alleviation of chromium toxicity in maize seedlings (Zea mays L.). Journal of Hazardous Materials, 2022, 424, 127302.	6.5	34
84	Identification of coincident QTL for days to heading, spike length and spikelets per spike in Lolium perenne L.. Euphytica, 2009, 166, 61-70.	0.6	33
85	Metabolomic-based biomarker discovery for non-invasive lung cancer screening: A case study. Biochimica Et Biophysica Acta - General Subjects, 2016, 1860, 2682-2687.	1.1	33
86	Lung cancer: a new frontier for microbiome research and clinical translation. Ecancermedicalscience, 2018, 12, 866.	0.6	33
87	Exploring the Roles of Aquaporins in Plantâ€“Microbe Interactions. Cells, 2018, 7, 267.	1.8	32
88	Negative effects of the simulated nitrogen deposition on plant phenolic metabolism: A meta-analysis. Science of the Total Environment, 2020, 719, 137442.	3.9	32
89	A requirement for calcium and protein phosphatase in the jasmonate-induced increase in tobacco leaf acid phosphatase specific activity. Journal of Experimental Botany, 1999, 50, 1331-1341.	2.4	31
90	An assessment of the biotechnological use of hemoglobin modulation in cereals. Physiologia Plantarum, 2014, 150, 593-603.	2.6	30

#	Article	IF	Citations
91	Harpin modulates the accumulation of salicylic acid by Arabidopsis cells via apoplastic alkalization. Journal of Experimental Botany, 2005, 56, 3129-3136.	2.4	29
92	An altered tocopherol composition in chloroplasts reduces plant resistance to Botrytis cinerea. Plant Physiology and Biochemistry, 2018, 127, 200-210.	2.8	29
93	Biphasic ethylene production during the hypersensitive response in Arabidopsis. Plant Signaling and Behavior, 2009, 4, 610-613.	1.2	28
94	Current approaches to measure nitric oxide in plants. Journal of Experimental Botany, 2019, 70, 4333-4343.	2.4	28
95	Antischistosomal Properties of Sclareol and Its Heck-Coupled Derivatives: Design, Synthesis, Biological Evaluation, and Untargeted Metabolomics. ACS Infectious Diseases, 2019, 5, 1188-1199.	1.8	26
96	Functional Homologs of the Arabidopsis RPM1 Disease Resistance Gene in Bean and Pea. Plant Cell, 1992, 4, 1359.	3.1	24
97	The AoPR10 promoter and certain endogenous PR10 genes respond to oxidative signals in Arabidopsis. Molecular Plant Pathology, 2004, 5, 435-451.	2.0	24
98	Spectroscopic monitoring of NO traces in plants and human breath: applications and perspectives. Applied Physics B: Lasers and Optics, 2013, 110, 203-211.	1.1	23
99	Ethylene Rapidly Up-Regulates the Activities of Both Monomeric GTP-Binding Proteins and Protein Kinase(s) in Epicotyls of Pea. Plant Physiology, 2003, 131, 1718-1726.	2.3	22
100	OsTSD2 â€mediated cell wall modification affects ion homeostasis and salt tolerance. Plant, Cell and Environment, 2019, 42, 1503-1512.	2.8	22
101	Separating the Inseparable: The Metabolomic Analysis of Plantâ€“Pathogen Interactions. Methods in Molecular Biology, 2011, 860, 31-49.	0.4	21
102	Transcriptional and Metabolomic Analyses Indicate that Cell Wall Properties are Associated with Drought Tolerance in Brachypodium distachyon. International Journal of Molecular Sciences, 2019, 20, 1758.	1.8	21
103	Unravelling Plant Responses to Stressâ€”The Importance of Targeted and Untargeted Metabolomics. Metabolites, 2021, 11, 558.	1.3	21
104	SOS1 is a key systemic regulator of salt secretion and K+/Na+ homeostasis in the recretohalophyte Karelinia caspia. Environmental and Experimental Botany, 2020, 177, 104098.	2.0	21
105	Brachypodium: 20 years as a grass biology model system; the way forward?. Trends in Plant Science, 2022, 27, 1002-1016.	4.3	21
106	Characterization of a proteinase inhibitor from Brachypodium distachyon suggests the conservation of defence signalling pathways between dicotyledonous plants and grasses. Molecular Plant Pathology, 2004, 5, 267-280.	2.0	20
107	Expression of FlHMA3 , a P 1B2 -ATPase from Festulolium loliaceum , correlates with response to cadmium stress. Plant Physiology and Biochemistry, 2017, 112, 270-277.	2.8	20
108	Nitrogen drives plant growth to the detriment of leaf sugar and steviol glycosides metabolisms in Stevia (Stevia rebaudiana Bertoni). Plant Physiology and Biochemistry, 2019, 141, 240-249.	2.8	20

#	Article	IF	Citations
109	Ethylene signal perception and transduction: multiple paradigms?. Biological Reviews, 2001, 76, 103-128.	4.7	20
110	Nitric Oxide Has a Concentration-Dependent Effect on the Cell Cycle Acting via EIN2 in Arabidopsis thaliana Cultured Cells. Frontiers in Physiology, 2017, 8, 142.	1.3	19
111	Molecular Docking Suggests the Targets of Anti-Mycobacterial Natural Products. Molecules, 2021, 26, 475.	1.7	19
112	Comparative Metabolite Fingerprinting of the Rumen System during Colonisation of Three Forage Grass (Lolium perenne L.) Varieties. PLoS ONE, 2013, 8, e82801.	1.1	19
113	Targeting sources of drought tolerance within an Avena spp. collection through multivariate approaches. Planta, 2012, 236, 1529-1545.	1.6	18
114	Striking a balance: does nitrate uptake and metabolism regulate both NO generation and scavenging?. Frontiers in Plant Science, 2013, 4, 288.	1.7	18
115	Defining the Cell Wall, Cell Cycle and Chromatin Landmarks in the Responses of Brachypodium distachyon to Salinity. International Journal of Molecular Sciences, 2021, 22, 949.	1.8	18
116	Cell-specific expression of salicylate hydroxylase in an attempt to separate localized HR and systemic signalling establishing SAR in tobacco. Molecular Plant Pathology, 2000, 1, 115-123.	2.0	17
117	The development of tea blister caused by Exobasidium vexans in tea (Camellia sinensis) correlates with the reduced accumulation of some antimicrobial metabolites and the defence signals salicylic and jasmonic acids. Plant Pathology, 2015, 64, 1471-1483.	1.2	17
118	Illuminating the dynamic rare biosphere of the Greenland Ice Sheet's Dark Zone. FEMS Microbiology Ecology, 2019, 95, .	1.3	17
119	Nitrate Stabilizes the Rhizospheric Fungal Community to Suppress Fusarium Wilt Disease in Cucumber. Molecular Plant-Microbe Interactions, 2020, 33, 590-599.	1.4	17
120	Enemy at the Gates. Plant Signaling and Behavior, 2007, 2, 275-277.	1.2	16
121	Avirulence geneavrPpiAfromPseudomonas syringaepv.pisiis not required for full virulence on pea. Physiological and Molecular Plant Pathology, 1997, 50, 219-236.	1.3	15
122	The Incidence of Alternaria Species Associated with Infected Sesamum indicum L. Seeds from Fields of the Punjab, Pakistan. Plant Pathology Journal, 2017, 33, 543-553.	0.7	15
123	Multiâ€omic dissection of the drought resistance traits of soybean landrace LX. Plant, Cell and Environment, 2021, 44, 1379-1398.	2.8	15
124	Genetic and Methylome Variation in Turkish Brachypodium Distachyon Accessions Differentiate Two Geographically Distinct Subpopulations. International Journal of Molecular Sciences, 2020, 21, 6700.	1.8	14
125	The different root apex zones contribute to drought priming induced tolerance to a reoccurring drought stress in wheat. Crop Journal, 2021, 9, 1088-1097.	2.3	14
126	Metabolite Diversity and Metabolic Genome-Wide Marker Association Studies (Mgwas) for Health Benefiting Nutritional Traits in Pearl Millet Grains. Cells, 2021, 10, 3076.	1.8	14

#	Article	IF	Citations
127	Something in the air: Volatile signals in plant defence. Trends in Microbiology, 1997, 5, 297-300.	3.5	13
128	Blumeria graminis Interactions with Barley Conditioned by Different Single R Genes Demonstrate a Temporal and Spatial Relationship Between Stomatal Dysfunction and Cell Death. Phytopathology, 2010, 100, 21-32.	1.1	13
129	Stomatal lockâ€up following pathogenic challenge: source or symptom of costs of resistance in crops?. Plant Pathology, 2013, 62, 72-82.	1.2	13
130	Zinc and Copper Enhance Cucumber Tolerance to Fusaric Acid by Mediating Its Distribution and Toxicity and Modifying the Antioxidant System. International Journal of Molecular Sciences, 2020, 21, 3370.	1.8	13
131	Secondary metabolites of endophytic fungi isolated from Huperzia serrata. FÃ¬toterapÃ¬Ã¢, 2021, 155, 104970.	1.1	13
132	A hierarchical opportunistic screening model for osteoporosis using machine learning applied to clinical data and CT images. BMC Bioinformatics, 2022, 23, 63.	1.2	13
133	Redox imbalance contributed differently to membrane damage of cucumber leaves under water stress and Fusarium infection. Plant Science, 2018, 274, 171-180.	1.7	12
134	Okra growth and drought tolerance when exposed to water regimes at different growth stages. International Journal of Vegetable Science, 2019, 25, 226-258.	0.6	12
135	Migration without interbreeding: Evolutionary history of a highly selfing Mediterranean grass inferred from whole genomes. Molecular Ecology, 2022, 31, 70-85.	2.0	12
136	Favouring NO over H 2 O 2 production will increase Pb tolerance in Prosopis farcta via altered primary metabolism. Ecotoxicology and Environmental Safety, 2017, 142, 293-302.	2.9	11
137	An All-Solid-State Phosphate Electrode with H3PO4 Doped Polyaniline as the Sensitive Layer. International Journal of Electrochemical Science, 2017, 12, 4677-4691.	0.5	11
138	Metabolomic Variation Aligns with Two Geographically Distinct Subpopulations of Brachypodium Distachyon before and after Drought Stress. Cells, 2021, 10, 683.	1.8	11
139	Rethinking of the Roles of Endophyte Symbiosis and Mycotoxin in Oxytropis Plants. Journal of Fungi (Basel, Switzerland), 2021, 7, 400.	1.5	11
140	A requirement for calcium and protein phosphatase in the jasmonate-induced increase in tobacco leaf acid phosphatase specific activity. Journal of Experimental Botany, 1999, 50, 1331-1341.	2.4	11
141	Tef: a tiny grain with enormous potential. Trends in Plant Science, 2022, 27, 220-223.	4.3	11
142	The Kelchâ€Fâ€box protein SMALL AND GLOSSY LEAVES 1 (SAGL1) negatively influences salicylic acid biosynthesis in Arabidopsis thaliana by promoting the turnâ€over of transcription factor SYSTEMIC ACQUIRED RESISTANCE DEFICIENT 1 (SARD1). New Phytologist, 2022, 235, 885-897.	3.5	11
143	Nitric oxide, nitrate reductase and UV-B tolerance. Tree Physiology, 2011, 31, 795-797.	1.4	10
144	Identification and pathogenicity of Fusarium species associated with sesame (Sesamum indicum L.) seeds from the Punjab, Pakistan. Physiological and Molecular Plant Pathology, 2018, 102, 128-135.	1.3	10

#	Article	IF	Citations
145	Nitrite and nitric oxide are important in the adjustment of primary metabolism during the hypersensitive response in tobacco. Journal of Experimental Botany, 2019, 70, 4571-4582.	2.4	10
146	Exogenous Nitric Oxide Confers Tolerance to Cr(VI) in Maize (Zea mays L.) Seedlings by Modulating Endogenous Oxido-Nitrosative Events. Journal of Plant Growth Regulation, 2022, 41, 1773-1785.	2.8	10
147	Defining key metabolic roles in osmotic adjustment and <scp>ROS</scp> homeostasis in the recretohalophyte Karelinia caspia under salt stress. Physiologia Plantarum, 2022, 174, e13663.	2.6	10
148	RapGene: a fast and accurate strategy for synthetic gene assembly in Escherichia coli. Scientific Reports, 2015, 5, 11302.	1.6	9
149	Low light intensity and compost modified biochar enhanced maize growth on contaminated soil and minimized Pb induced oxidative stress. Journal of Environmental Chemical Engineering, 2021, 9, 104764.	3.3	9
150	Nitrate mediated resistance against Fusarium infection in cucumber plants acts via photorespiration. Plant, Cell and Environment, 2021, 44, 3412-3431.	2.8	9
151	Control of lodging and reduction in plant length in rice (Oryza sativa L.) with the treatment of Trinexapac-Ethyl and sowing density. Turk Tarim Ve Ormancilik Dergisi/Turkish Journal of Agriculture and Forestry, 2013, , .	0.8	8
152	Botrytis cinerea Loss and Restoration of Virulence during In Vitro Culture Follows Flux in Global DNA Methylation. International Journal of Molecular Sciences, 2022, 23, 3034.	1.8	8
153	Are stomatal responses the key to understanding the cost of fungal disease resistance in plants?. Journal of the Science of Food and Agriculture, 2011, 91, 1538-1540.	1.7	7
154	Evidence of a role for foliar salicylic acid in regulating the rate of post-ingestive protein breakdown in ruminants and contributing to landscape pollution. Journal of Experimental Botany, 2012, 63, 3243-3255.	2.4	7
155	Saprotrophic proteomes of biotypes of the witches' broom pathogen Moniliophthora perniciosa. Fungal Biology, 2017, 121, 743-753.	1.1	7
156	Target discovery focused approaches to overcome bottlenecks in the exploitation of antimycobacterial natural products. Future Medicinal Chemistry, 2018, 10, 811-822.	1.1	7
157	Host Genotype and Precipitation Influence of Fungal Endophyte Symbiosis and Mycotoxin Abundance in a Locoweed. International Journal of Molecular Sciences, 2019, 20, 5285.	1.8	7
158	The crossâ€kingdom roles of mineral nutrient transporters in plantâ€microbe relations. Physiologia Plantarum, 2021, 171, 771-784.	2.6	7
159	Transcriptomic Characterization of Nitrate-Enhanced Stevioside Glycoside Synthesis in Stevia (Stevia) Tj ETQq1 1 0.784314 rgBT /Ove	1.8	7
160	Metabolomic Changes in Naturally MAP-Infected Holsteinâ€“Friesian Heifers Indicate Immunologically Related Biochemical Reprogramming. Metabolites, 2021, 11, 727.	1.3	7
161	Protein Kinases in Plants in the Transduction of Abiotic and Biotic Signals. Russian Journal of Plant Physiology, 2002, 49, 107-119.	0.5	6
162	Ectopic expression and functional characterization of type III polyketide synthase mutants from Emblica officinalis Gaertn. Plant Cell Reports, 2016, 35, 2077-2090.	2.8	6

#	Article	IF	Citations
163	Defining Metabolic Rewiring in Lung Squamous Cell Carcinoma. Metabolites, 2019, 9, 47.	1.3	6
164	Leaf nitrate accumulation influences the photorespiration of rice (Oryza sativa L.) seedlings. Plant and Soil, 2020, 456, 323-338.	1.8	6
165	Isolation and Characterisation of Quercitrin as a Potent Anti-Sickle Cell Anaemia Agent from Alchornea cordifolia. Journal of Clinical Medicine, 2022, 11, 2177.	1.0	6
166	Elucidating drought responsive networks in tef (Eragrostis tef) using phenomic and metabolomic approaches. Physiologia Plantarum, 2022, 174, e13597.	2.6	5
167	Host-Species Variation and Environment Influence Endophyte Symbiosis and Mycotoxin Levels in Chinese Oxytropis Species. Toxins, 2022, 14, 181.	1.5	5
168	Compromised Photosynthetic Electron Flow and H2O2 Generation Correlate with Genotype-Specific Stomatal Dysfunctions during Resistance against Powdery Mildew in Oats. Frontiers in Plant Science, 2016, 7, 1660.	1.7	4
169	Terminator Operon Reporter: combining a transcription termination switch with reporter technology for improved gene synthesis and synthetic biology applications. Scientific Reports, 2016, 6, 26572.	1.6	4
170	Three classes of hemoglobins are required for optimal vegetative and reproductive growth of Lotus japonicus: genetic and biochemical characterization of LjGlb2-1. Journal of Experimental Botany, 2021, 72, 7778-7791.	2.4	4
171	Non-Targeted Metabolite Profiling Reveals Host Metabolomic Reprogramming during the Interaction of Black Pepper with Phytophthora capsici. International Journal of Molecular Sciences, 2021, 22, 11433.	1.8	4
172	Defining Fatty Acid Changes Linked to Rumen Development, Weaning and Growth in Holstein-Friesian Heifers. Metabolites, 2022, 12, 374.	1.3	4
173	Metabolomic changes in Mycobacterium avium subsp. paratuberculosis (MAP) challenged Holsteinâ€“Friesian cattle highlight the role of serum amino acids as indicators of immune system activation. Metabolomics, 2022, 18, 21.	1.4	4
174	Guarding the guard cells?. New Phytologist, 2014, 203, 349-351.	3.5	3
175	A novel chemical sensor with multiple all-solid-state electrodes and its application in freshwater environmental monitoring. Water Science and Technology, 2018, 78, 432-440.	1.2	3
176	Identification of genes involved in the floral transition at the shoot apical meristem of Lolium perenne L. by use of suppression subtractive hybridisation. Plant Growth Regulation, 2009, 59, 215-225.	1.8	2
177	Latent soil effects of grazing and ammonium deposition on Deschampsia flexuosa tillers inserted and grown in heather moorland soil. Environmental and Experimental Botany, 2012, 81, 72-78.	2.0	2
178	The application of multivariate analysis of variance (MANOVA) to evaluate plant metabolomic data from factorially designed experiments. Metabolomics, 2016, 12, 1.	1.4	2
179	Quantum Cascade Lasers-Based Detection of Nitric Oxide. Methods in Molecular Biology, 2018, 1747, 49-57.	0.4	2
180	The Anti-mycobacterial Activity of a Diterpenoid-Like Molecule Operates Through Nitrogen and Amino Acid Starvation. Frontiers in Microbiology, 2019, 10, 1444.	1.5	2

#	Article	IF	Citations
181	Typical Lung Carcinoids with Metastasis: Potential Role of MicroRNAs in the Regulation of Adaptive Immunity Associated with Disease: a Case Study. Cellular Physiology and Biochemistry, 2021, 55, 1-12.	1.1	2
182	Untargeted Metabolomic Profiling Reveals Variation in Metabolites Associated with Nutritional Values in Tef Accessions. Plant Foods for Human Nutrition, 2021, 76, 536-539.	1.4	2
183	Molecular and physiological responses to desiccation indicate the abscisic acid pathway is conserved in the peat moss, Sphagnum. Journal of Experimental Botany, 2022, 73, 4576-4591.	2.4	2
184	A thaumatin-like gene from Asparagus officinalis (AoPRT-L) exhibits slow activation following tissue maceration or salicylic acid treatment, suggesting convergent defence-related signalling in monocots. Molecular Plant Pathology, 2000, 1, 357-366.	2.0	1
185	Laser-Based Methods for Detection of Nitric Oxide in Plants. Methods in Molecular Biology, 2016, 1424, 113-126.	0.4	1
186	Allotetraploidization in Brachypodium May Have Led to the Dominance of One Parentâ€™s Metabolome in Germinating Seeds. Cells, 2021, 10, 828.	1.8	1
187	Gene Expression at Sites of Wounding, Pathogen Invasion & Phenylpropanoid Synthesis in Monocots and Dicots. Developments in Plant Pathology, 1993, , 352-352.	0.1	1
188	Metabotyping the Welsh population of badgers based on thoracic fluid. Metabolomics, 2022, 18, 30.	1.4	1
189	The phytohormone salicylic acid influences autolysis in ruminantingested plant cells. Comparative Biochemistry and Physiology Part A, Molecular & Integrative Physiology, 2009, 153, S160.	0.8	0
190	Using Fourier Transform Infra-Red (FTIR) On Sputum To Develop A Predictive Model To Differentiate Lung Cancer From Healthy Controls. , 2011, , .		0
191	Brachypodium as a Model for Grass and Cereal Diseases. Plant Genetics and Genomics: Crops and Models, 2015, , 275-290.	0.3	0
192	P40 Alchornea cordifolia Leaf-Extracts Confer Protection from DNA Damage and Reactive Oxygen Species (ROS). Biochemical Pharmacology, 2017, 139, 139.	2.0	0
193	A Hierarchical Opportunistic Screening Model for Osteoporosis Using Machine Learning Applied to Clinical Data and CT Images. SSRN Electronic Journal, 0, , .	0.4	0
194	Characterization of an Ex Vivo Equine Endometrial Tissue Culture Model Using Next-Generation RNA-Sequencing Technology. Animals, 2021, 11, 1995.	1.0	0
195	Mathematical modelling of Her2 (ErbB2) PI3K/AKT signalling pathways during breast carcinogenesis to include PTPD2. AIMS Mathematics, 2020, 5, 4946-4958.	0.7	0