

Aaron Fait

List of Publications by Year in descending order

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Version: 2024-02-01

103
papers

6,846
citations

50276

46
h-index

62596

80
g-index

110
all docs

110
docs citations

110
times ranked

8022
citing authors

#	ARTICLE	IF	CITATIONS
1	Iron Phosphide Precatalyst for Electrocatalytic Degradation of Rhodamine B Dye and Removal of <i>Escherichia coli</i> from Simulated Wastewater. <i>Catalysts</i> , 2022, 12, 269.	3.5	7
2	Leveraging a graft collection to develop metabolome-based trait prediction for the selection of tomato rootstocks with enhanced salt tolerance. <i>Horticulture Research</i> , 2022, 9, uhac061.	6.3	2
3	The Effect of Topo-Climate Variation on the Secondary Metabolism of Berries in White Grapevine Varieties (<i>Vitis vinifera</i>). <i>Frontiers in Plant Science</i> , 2022, 13, 847268.	3.6	2
4	Over 1000-Fold Synergistic Boost in Viniferin Levels by Elicitation of <i>Vitis vinifera</i> cv. Gamay Red Cell Cultures over Accumulating Phenylalanine. <i>Journal of Agricultural and Food Chemistry</i> , 2022, 70, 5049-5056.	5.2	3
5	Forever Young? Late Shoot Pruning Affects Phenological Development, Physiology, Yield and Wine Quality of <i>Vitis vinifera</i> cv. Malbec. <i>Agriculture (Switzerland)</i> , 2022, 12, 605.	3.1	4
6	Impairment of root auxin-cytokinins homeostasis induces collapse of incompatible melon grafts during fruit ripening. <i>Horticulture Research</i> , 2022, 9, .	6.3	2
7	Auto-deconvolution and molecular networking of gas chromatography-mass spectrometry data. <i>Nature Biotechnology</i> , 2021, 39, 169-173.	17.5	78
8	Metabolic Engineering Strategy Enables a Hundred-Fold Increase in Viniferin Levels in <i>Vitis vinifera</i> cv. Gamay Red Cell Culture. <i>Journal of Agricultural and Food Chemistry</i> , 2021, 69, 3124-3133.	5.2	8
9	Not just shrivelling: time-series profiling of the biochemical changes in Corvina (&Vitis) Tj ETQq1 1 0.784314 _{1.4} rgBT /Overlock 10 ₆		
10	Does scion-rootstock compatibility modulate photoassimilate and hormone trafficking through the graft junction in melon-pumpkin graft combinations?. <i>Plant Science</i> , 2021, 306, 110852.	3.6	9
11	A Synchronized Increase of Stilbenes and Flavonoids in Metabolically Engineered <i>Vitis vinifera</i> cv. Gamay Red Cell Culture. <i>Journal of Agricultural and Food Chemistry</i> , 2021, 69, 7922-7931.	5.2	6
12	The Effect of Soil on the Biochemical Plasticity of Berry Skin in Two Italian Grapevine (<i>V. vinifera</i> L.) Cultivars. <i>Frontiers in Plant Science</i> , 2020, 11, 822.	3.6	7
13	Impact of scion/rootstock reciprocal effects on metabolomics of fruit juice and phloem sap in grafted <i>Citrus reticulata</i> . <i>PLoS ONE</i> , 2020, 15, e0227192.	2.5	39
14	Can metabolic tightening and expansion of co-expression network play a role in stress response and tolerance?. <i>Plant Science</i> , 2020, 293, 110409.	3.6	11
15	Temperature Shift Between Vineyards Modulates Berry Phenology and Primary Metabolism in a Varietal Collection of Wine Grapevine. <i>Frontiers in Plant Science</i> , 2020, 11, 588739.	3.6	17
16	Grape berry position affects the diurnal dynamics of its metabolic profile. <i>Plant, Cell and Environment</i> , 2019, 42, 1897-1912.	5.7	41
17	Combined network analysis and machine learning allows the prediction of metabolic pathways from tomato metabolomics data. <i>Communications Biology</i> , 2019, 2, 214.	4.4	53
18	Swift metabolite changes and leaf shedding are milestones in the acclimation process of grapevine under prolonged water stress. <i>BMC Plant Biology</i> , 2019, 19, 69.	3.6	30

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19	Physiology and metabolism of grafted bell pepper in response to low root-zone temperature. <i>Functional Plant Biology</i> , 2019, 46, 339.	2.1	11
20	Accumulation of newly identified sulfur containing metabolites in <i>Zygophyllum dumosum</i> Boiss suggest for a role of secondary metabolism in petiole survival during the dry season. <i>Israel Journal of Plant Sciences</i> , 2019, 66, 94-102.	0.5	2
21	Differential metabolism of L-phenylalanine in the formation of aromatic volatiles in melon (<i>Cucumis</i>) Tj ETQq1 1 0.784314 rgBT /Ov 2.9 41	2.9	41
22	Deciphering genetic factors that determine melon fruit quality traits using RNA seq-based high-resolution QTL and eQTL mapping. <i>Plant Journal</i> , 2018, 94, 169-191.	5.7	133
23	Grape Berry Acclimation to Excessive Solar Irradiance Leads to Repartitioning between Major Flavonoid Groups. <i>Journal of Agricultural and Food Chemistry</i> , 2018, 66, 3624-3636.	5.2	35
24	Grafting as a Method to Increase the Tolerance Response of Bell Pepper to Extreme Temperatures. <i>Vadose Zone Journal</i> , 2018, 17, 1-8.	2.2	8
25	Grapevines hydraulic diversity a critical consideration for irrigation management?. <i>Acta Horticulturae</i> , 2017, , 443-448.	0.2	1
26	Water deficit effects on the molecular processes, physiology and quality of grapevine. <i>Acta Horticulturae</i> , 2017, , 239-254.	0.2	3
27	A bell pepper cultivar tolerant to chilling enhanced nitrogen allocation and stress-related metabolite accumulation in the roots in response to low root-zone temperature. <i>Physiologia Plantarum</i> , 2017, 161, 196-210.	5.2	23
28	The common transcriptional subnetworks of the grape berry skin in the late stages of ripening. <i>BMC Plant Biology</i> , 2017, 17, 94.	3.6	42
29	Grapevine acclimation to water deficit: the adjustment of stomatal and hydraulic conductance differs from petiole embolism vulnerability. <i>Planta</i> , 2017, 245, 1091-1104.	3.2	55
30	Network-Guided GWAS Improves Identification of Genes Affecting Free Amino Acids. <i>Plant Physiology</i> , 2017, 173, 872-886.	4.8	52
31	A combination of stomata deregulation and a distinctive modulation of amino acid metabolism are associated with enhanced tolerance of wheat varieties to transient drought. <i>Metabolomics</i> , 2017, 13, 1.	3.0	6
32	Grape Metabolic Response to Postveraison Water Deficit Is Affected by Interseason Weather Variability. <i>Journal of Agricultural and Food Chemistry</i> , 2017, 65, 5868-5878.	5.2	36
33	Sunlight Modulates Fruit Metabolic Profile and Shapes the Spatial Pattern of Compound Accumulation within the Grape Cluster. <i>Frontiers in Plant Science</i> , 2017, 8, 70.	3.6	68
34	Multi-Omics and Integrated Network Analyses Reveal New Insights into the Systems Relationships between Metabolites, Structural Genes, and Transcriptional Regulators in Developing Grape Berries (<i>Vitis vinifera</i> L.) Exposed to Water Deficit. <i>Frontiers in Plant Science</i> , 2017, 8, 1124.	3.6	108
35	Correlation-Based Network Generation, Visualization, and Analysis as a Powerful Tool in Biological Studies: A Case Study in Cancer Cell Metabolism. <i>BioMed Research International</i> , 2016, 2016, 1-9.	1.9	68
36	Correlation-Based Network Analysis of Metabolite and Enzyme Profiles Reveals a Role of Citrate Biosynthesis in Modulating N and C Metabolism in <i>Zea mays</i> . <i>Frontiers in Plant Science</i> , 2016, 7, 1022.	3.6	20

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37	Salt Induces Features of a Dormancy-Like State in Seeds of <i>Eutrema</i> (<i>Thellungiella</i>) <i>salsugineum</i> , a Halophytic Relative of <i>Arabidopsis</i> . <i>Frontiers in Plant Science</i> , 2016, 7, 1071.	3.6	16
38	Environmental and genetic effects on tomato seed metabolic balance and its association with germination vigor. <i>BMC Genomics</i> , 2016, 17, 1047.	2.8	28
39	Paclobutrazol induces tolerance in tomato to deficit irrigation through diversified effects on plant morphology, physiology and metabolism. <i>Scientific Reports</i> , 2016, 6, 39321.	3.3	47
40	Polyphenolic responses of grapevine berries to light, temperature, oxidative stress, abscisic acid and jasmonic acid show specific developmental-dependent degrees of metabolic resilience to perturbation. <i>Food Chemistry</i> , 2016, 212, 828-836.	8.2	54
41	Regional features of northern Italian sparkling wines, identified using solid-phase micro extraction and comprehensive two-dimensional gas chromatography coupled with time-of-flight mass spectrometry. <i>Food Chemistry</i> , 2016, 208, 68-80.	8.2	56
42	Tolerance to high soil temperature in foxtail millet (<i>Setaria italica</i> L.) is related to shoot and root growth and metabolism. <i>Plant Physiology and Biochemistry</i> , 2016, 106, 73-81.	5.8	56
43	Transcriptome and metabolite profiling reveals that prolonged drought modulates the phenylpropanoid and terpenoid pathway in white grapes (<i>Vitis vinifera</i> L.). <i>BMC Plant Biology</i> , 2016, 16, 67.	3.6	269
44	Effects of Parental Temperature and Nitrate on Seed Performance are Reflected by Partly Overlapping Genetic and Metabolic Pathways. <i>Plant and Cell Physiology</i> , 2016, 57, 473-487.	3.1	37
45	<i>Anastatica hierochuntica</i> , an <i>Arabidopsis</i> Desert Relative, Is Tolerant to Multiple Abiotic Stresses and Exhibits Species-Specific and Common Stress Tolerance Strategies with Its Halophytic Relative, <i>Eutrema</i> (<i>Thellungiella</i>) <i>salsugineum</i> . <i>Frontiers in Plant Science</i> , 2016, 7, 1992.	3.6	24
46	Five omic technologies are concordant in differentiating the biochemical characteristics of the berries of five grapevine (<i>Vitis vinifera</i> L.) cultivars. <i>BMC Genomics</i> , 2015, 16, 946.	2.8	41
47	Metabolic and Physiological Responses of Shiraz and Cabernet Sauvignon (<i>Vitis vinifera</i> L.) to Near Optimal Temperatures of 25 and 35 Å°C. <i>International Journal of Molecular Sciences</i> , 2015, 16, 24276-24294.	4.1	52
48	Sulfite Oxidase Activity Is Essential for Normal Sulfur, Nitrogen and Carbon Metabolism in Tomato Leaves. <i>Plants</i> , 2015, 4, 573-605.	3.5	22
49	Phenylalanine and tyrosine levels are rate-limiting factors in production of health promoting metabolites in <i>Vitis vinifera</i> cv. Gamay Red cell suspension. <i>Frontiers in Plant Science</i> , 2015, 6, 538.	3.6	53
50	Metabolite profiling and transcript analysis reveal specificities in the response of a berry derived cell culture to abiotic stresses. <i>Frontiers in Plant Science</i> , 2015, 6, 728.	3.6	22
51	The transporter GAT1 plays an important role in GABA-mediated carbon-nitrogen interactions in <i>Arabidopsis</i> . <i>Frontiers in Plant Science</i> , 2015, 6, 785.	3.6	30
52	Cultivar specific metabolic changes in grapevines berry skins in relation to deficit irrigation and hydraulic behavior. <i>Plant Physiology and Biochemistry</i> , 2015, 88, 42-52.	5.8	56
53	Metabolic patterns associated with the seasonal rhythm of seed survival after dehydration in germinated seeds of <i>Schismus arabicus</i> . <i>BMC Plant Biology</i> , 2015, 15, 37.	3.6	1
54	Grapevine Anatomy as a Possible Determinant of Isohydric or Anisohydric Behavior. <i>American Journal of Enology and Viticulture</i> , 2015, 66, 340-347.	1.7	38

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55	Seed Physiology and Germination of Grain Legumes. Handbook of Plant Breeding, 2015, , 327-363.	0.1	10
56	The variability in the xylem architecture of grapevine petiole and its contribution to hydraulic differences. Functional Plant Biology, 2015, 42, 357.	2.1	35
57	Metabolite profiling elucidates communalities and differences in the polyphenol biosynthetic pathways of red and white Muscat genotypes. Plant Physiology and Biochemistry, 2015, 86, 24-33.	5.8	20
58	Combined correlation-based network and <i>mQTL</i> analyses efficiently identified loci for branched-chain amino acid, serine to threonine, and proline metabolism in tomato seeds. Plant Journal, 2015, 81, 121-133.	5.7	55
59	Activation and regulation of primary metabolism during seed germination. Seed Science Research, 2014, 24, 1-15.	1.7	155
60	Conserved Changes in the Dynamics of Metabolic Processes during Fruit Development and Ripening across Species <i>A. A.</i> Plant Physiology, 2014, 164, 55-68.	4.8	50
61	Combined Transcriptomics and Metabolomics of Arabidopsis thaliana Seedlings Exposed to Exogenous GABA Suggest Its Role in Plants Is Predominantly Metabolic. Molecular Plant, 2014, 7, 1065-1068.	8.3	56
62	Metabolite and transcript profiling of berry skin during fruit development elucidates differential regulation between Cabernet Sauvignon and Shiraz cultivars at branching points in the polyphenol pathway. BMC Plant Biology, 2014, 14, 188.	3.6	135
63	Metabolite Profiling and Integrative Modeling Reveal Metabolic Constraints for Carbon Partitioning under Nitrogen Starvation in the Green Algae Haematococcus pluvialis. Journal of Biological Chemistry, 2014, 289, 30387-30403.	3.4	103
64	Growth, lipid production and metabolic adjustments in the euryhaline eustigmatophyte Nannochloropsis oceanica CICALA 804 in response to osmotic downshift. Applied Microbiology and Biotechnology, 2013, 97, 8291-8306.	3.6	65
65	Metabolite profiling and network analysis reveal coordinated changes in grapevine water stress response. BMC Plant Biology, 2013, 13, 184.	3.6	158
66	Growth Platform-Dependent and -Independent Phenotypic and Metabolic Responses of Arabidopsis and Its Halophytic Relative, Eutrema salsugineum, to Salt Stress. Plant Physiology, 2013, 162, 1583-1598.	4.8	50
67	Network analysis: tackling complex data to study plant metabolism. Trends in Biotechnology, 2013, 31, 29-36.	9.3	87
68	Near isohydric grapevine cultivar displays higher photosynthetic efficiency and photorespiration rates under drought stress as compared with near anisohydric grapevine cultivar. Physiologia Plantarum, 2013, 147, 443-452.	5.2	89
69	Surface Cell Density Effects on Escherichia coli Gene Expression during Cell Attachment. Environmental Science & Technology, 2013, 47, 6223-6230.	10.0	9
70	Catabolism of <i>l</i> -methionine in the formation of sulfur and other volatiles in melon (<i>Cucumis melo</i> L.) fruit. Plant Journal, 2013, 74, 458-472.	5.7	78
71	Cytoplasmic genome substitution in wheat affects the nuclear-cytoplasmic cross-talk leading to transcript and metabolite alterations. BMC Genomics, 2013, 14, 868.	2.8	20
72	Morphological, cytological and metabolic consequences of autopolyploidization in Hylocereus (Cactaceae) species. BMC Plant Biology, 2013, 13, 173.	3.6	67

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73	The Investment in Scent: Time-Resolved Metabolic Processes in Developing Volatile-Producing <i>Nigella sativa</i> L. Seeds. <i>PLoS ONE</i> , 2013, 8, e73061.	2.5	5
74	Ecotypic Variability in the Metabolic Response of Seeds to Diurnal Hydration—Dehydration Cycles and its Relationship to Seed Vigor. <i>Plant and Cell Physiology</i> , 2012, 53, 38-52.	3.1	32
75	Metabolic Profiling of a Mapping Population Exposes New Insights in the Regulation of Seed Metabolism and Seed, Fruit, and Plant Relations. <i>PLoS Genetics</i> , 2012, 8, e1002612.	3.5	115
76	Distribution of Primary and Specialized Metabolites in <i>Nigella sativa</i> Seeds, a Spice with Vast Traditional and Historical Uses. <i>Molecules</i> , 2012, 17, 10159-10177.	3.8	70
77	Mechanisms of hormonal regulation of endosperm cap-specific gene expression in tomato seeds. <i>Plant Journal</i> , 2012, 71, 575-586.	5.7	37
78	Metabolomics-Assisted Crop Breeding Towards Improvement in Seed Quality and Yield. , 2012, , 453-475.		1
79	Rumor Has It—Relay Communication of Stress Cues in Plants. <i>PLoS ONE</i> , 2011, 6, e23625.	2.5	58
80	A mitochondrial GABA permease connects the GABA shunt and the TCA cycle, and is essential for normal carbon metabolism. <i>Plant Journal</i> , 2011, 67, 485-498.	5.7	160
81	A seed high lysine trait is negatively associated with the TCA cycle and slows down <i>Arabidopsis</i> seed germination. <i>New Phytologist</i> , 2011, 189, 148-159.	7.3	130
82	Alteration in expression of hormone-related genes in wild emmer wheat roots associated with drought adaptation mechanisms. <i>Functional and Integrative Genomics</i> , 2011, 11, 565-583.	3.5	74
83	Targeted Enhancement of Glutamate-to- ¹³ C-Aminobutyrate Conversion in <i>Arabidopsis</i> Seeds Affects Carbon-Nitrogen Balance and Storage Reserves in a Development-Dependent Manner. <i>Plant Physiology</i> , 2011, 157, 1026-1042.	4.8	111
84	Seed desiccation: a bridge between maturation and germination. <i>Trends in Plant Science</i> , 2010, 15, 211-218.	8.8	262
85	Deciphering Transcriptional and Metabolic Networks Associated with Lysine Metabolism during <i>Arabidopsis</i> Seed Development. <i>Plant Physiology</i> , 2009, 151, 2058-2072.	4.8	89
86	Abnormal Physiological and Molecular Mutant Phenotypes Link Chloroplast Polynucleotide Phosphorylase to the Phosphorus Deprivation Response in <i>Arabidopsis</i> . <i>Plant Physiology</i> , 2009, 151, 905-924.	4.8	43
87	ADP-Glucose Pyrophosphorylase-Deficient Pea Embryos Reveal Specific Transcriptional and Metabolic Changes of Carbon-Nitrogen Metabolism and Stress Responses. <i>Plant Physiology</i> , 2009, 149, 395-411.	4.8	78
88	A ROLE FOR METABOLOMICS IN MARKER-ASSISTED BREEDING FOR CROP COMPOSITIONAL TRAITS?. <i>Acta Horticulturae</i> , 2009, , 101-112.	0.2	0
89	Data Integration. , 2009, , 151-171.		2
90	Increasing amino acid supply in pea embryos reveals specific interactions of N and C metabolism, and highlights the importance of mitochondrial metabolism. <i>Plant Journal</i> , 2008, 55, 909-926.	5.7	110

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91	Highway or byway: the metabolic role of the GABA shunt in plants. Trends in Plant Science, 2008, 13, 14-19.	8.8	583
92	Reconfiguration of the Achene and Receptacle Metabolic Networks during Strawberry Fruit Development. Plant Physiology, 2008, 148, 730-750.	4.8	276
93	The COMATOSE ATP-Binding Cassette Transporter Is Required for Full Fertility in Arabidopsis. Plant Physiology, 2007, 144, 1467-1480.	4.8	85
94	Reduced Expression of Succinyl-Coenzyme A Ligase Can Be Compensated for by Up-Regulation of the γ -Aminobutyrate Shunt in Illuminated Tomato Leaves. Plant Physiology, 2007, 145, 626-639.	4.8	151
95	The Mitochondrion: An Integration Point of Cellular Metabolism and Signalling. Critical Reviews in Plant Sciences, 2007, 26, 17-43.	5.7	102
96	GABA and GHB Neurotransmitters in Plants and Animals. , 2006, , 171-185.		8
97	Arabidopsis Seed Development and Germination Is Associated with Temporally Distinct Metabolic Switches. Plant Physiology, 2006, 142, 839-854.	4.8	387
98	GABA shunt deficiencies and accumulation of reactive oxygen intermediates: insight from Arabidopsis mutants. FEBS Letters, 2005, 579, 415-420.	2.8	111
99	The root-specific glutamate decarboxylase (GAD1) is essential for sustaining GABA levels in Arabidopsis. Plant Molecular Biology, 2004, 55, 315-325.	3.9	107
100	Mitochondrial succinic-semialdehyde dehydrogenase of the γ -aminobutyrate shunt is required to restrict levels of reactive oxygen intermediates in plants. Proceedings of the National Academy of Sciences of the United States of America, 2003, 100, 6843-6848.	7.1	375
101	Chemotypic differentiation in indigenous populations of <i>Foeniculum vulgare</i> var. <i>vulgare</i> in Israel. Biochemical Systematics and Ecology, 2002, 30, 721-731.	1.3	53
102	Chemical Variation Among Indigenous Populations of <i>Foeniculum vulgare</i> var. <i>vulgare</i> in Israel. Planta Medica, 1999, 65, 486-489.	1.3	33
103	GABA and GHB Neurotransmitters in Plants and Animals. , 0, , 171-185.		0