Albert Batushansky

List of Publications by Year
in descending order

31 papers	1,147 citations	471509 17 h-index	454955 30 g-index
33 all docs	33 docs citations	33 times ranked	1926 citing authors

#	Article	IF	Citations
1	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
2	Proximal colonâ€“derived O-glycosylated mucus encapsulates and modulates the microbiota. Science, 2020, 370, 467-472.	12.6	122
3	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
4	Correlation-Based Network Generation, Visualization, and Analysis as a Powerful Tool in Biological Studies: A Case Study in Cancer Cell Metabolism. BioMed Research International, 2016, 2016, 1-9.	1.9	68
5	Growth, lipid production and metabolic adjustments in the euryhaline eustigmatophyte Nannochloropsis oceanica CCALA 804 in response to osmotic downshift. Applied Microbiology and Biotechnology, 2013, 97, 8291-8306.	3.6	65
6	Topological Data Analysis as a Morphometric Method: Using Persistent Homology to Demarcate a Leaf Morphospace. Frontiers in Plant Science, 2018, 9, 553.	3.6	62
7	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
8	Combined correlationâ€based network and <scp>mQTL</scp> analyses efficiently identified loci for branchedâ€chain amino acid, serine to threonine, and proline metabolism in tomato seeds. Plant Journal, 2015, 81, 121-133.	5.7	55
9	Metabolic and Physiological Responses of Shiraz and Cabernet Sauvignon (Vitis vinifera L.) to Near Optimal Temperatures of 25 and 35 Â°C. International Journal of Molecular Sciences, 2015, 16, 24276-24294.	4.1	52
10	Network-Guided GWAS Improves Identification of Genes Affecting Free Amino Acids. Plant Physiology, 2017, 173, 872-886.	4.8	52
11	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
12	Paclobutrazol induces tolerance in tomato to deficit irrigation through diversified effects on plant morphology, physiology and metabolism. Scientific Reports, 2016, 6, 39321.	3.3	47
13	Effects of Parental Temperature and Nitrate on Seed Performance are Reflected by Partly Overlapping Genetic and Metabolic Pathways. Plant and Cell Physiology, 2016, 57, 473-487.	3.1	37
14	The transporter GAT1 plays an important role in GABA-mediated carbon-nitrogen interactions in Arabidopsis. Frontiers in Plant Science, 2015, 6, 785.	3.6	30
15	Environmental and genetic effects on tomato seed metabolic balance and its association with germination vigor. BMC Genomics, 2016, 17, 1047.	2.8	28
16	Sulfite Oxidase Activity Is Essential for Normal Sulfur, Nitrogen and Carbon Metabolism in Tomato Leaves. Plants, 2015, 4, 573-605.	3.5	22
17	Independent effects of dietary fat and sucrose content on chondrocyte metabolism and osteoarthritis pathology in mice. DMM Disease Models and Mechanisms, 2018, 11, .	2.4	20
18	GCâ€“MS metabolic profiling reveals fructose-2,6-bisphosphate regulates branched chain amino acid metabolism in the heart during fasting. Metabolomics, 2019, 15, 18.	3.0	18

#	Article	IF	Citations
19	Correlation network analysis shows divergent effects of a long-term, high-fat diet and exercise on early stage osteoarthritis phenotypes in mice. Journal of Sport and Health Science, 2020, 9, 119-131.	6.5	17
20	Sirt5 Deficiency Causes Posttranslational Protein Malonylation and Dysregulated Cellular Metabolism in Chondrocytes Under Obesity Conditions. Cartilage, 2021, 13, 1185S-1199S.	2.7	16
21	Enhancing cardiac glycolysis causes an increase in PDK4 content in response to short-term high-fat diet. Journal of Biological Chemistry, 2019, 294, 16831-16845.	3.4	13
22	Can metabolic tightening and expansion of co-expression network play a role in stress response and tolerance?. Plant Science, 2020, 293, 110409.	3.6	11
23	The complex response of free and bound amino acids to water stress during the seed setting stage in Arabidopsis. Plant Journal, 2020, 102, 838-855.	5.7	9
24	A Shift in Glycerolipid Metabolism Defines the Follicular Fluid of IVF Patients with Unexplained Infertility. Biomolecules, 2020, 10, 1135.	4.0	9
25	An In Vivo Stable Isotope Labeling Method to Investigate Individual Matrix Protein Synthesis, Ribosomal Biogenesis, and Cellular Proliferation in Murine Articular Cartilage. Function, 2022, 3, zqac008.	2.3	8
26	Insulin-like growth factor 1 receptor mediates photoreceptor neuroprotection. Cell Death and Disease, 2022, 13, .	6.3	7
27	A combination of stomata deregulation and a distinctive modulation of amino acid metabolism are associated with enhanced tolerance of wheat varieties to transient drought. Metabolomics, 2017, 13, 1.	3.0	6
28	The Investment in Scent: Time-Resolved Metabolic Processes in Developing Volatile-Producing Nigella sativa L. Seeds. PLoS ONE, 2013, 8, e73061.	2.5	5
29	Adaptive responses of amino acid metabolism to the combination of desiccation and low nitrogen availability in Sporobolus stapfianus. Planta, 2019, 249, 1535-1549.	3.2	4
30	PFKFB3â€dependent glucose metabolism regulates 3T3â€L1 adipocyte development. FASEB Journal, 2021, 35, e21728.	0.5	3
31	Increasing Glycolysis Protects Cardiac Function Against High Fat Dietâ€Induced Cardiomyopathy. FASEB Journal, 2021, 35, .	0.5	0