

Oliver Berkowitz

List of Publications by Year in descending order

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64
papers

3,208
citations

172457

29
h-index

168389

53
g-index

72
all docs

72
docs citations

72
times ranked

4337
citing authors

#	ARTICLE	IF	CITATIONS
1	Root Architecture Responses: In Search of Phosphate. <i>Plant Physiology</i> , 2014, 166, 1713-1723.	4.8	214
2	A Metal-binding Member of the Late Embryogenesis Abundant Protein Family Transports Iron in the Phloem of <i>Ricinus communis</i> L.. <i>Journal of Biological Chemistry</i> , 2002, 277, 25062-25069.	3.4	209
3	The jasmonic acid signaling pathway is linked to auxin homeostasis through the modulation of <i>YUCCA8</i> and <i>YUCCA9</i> gene expression. <i>Plant Journal</i> , 2013, 74, 626-637.	5.7	178
4	Characterization of TCTP, the Translationally Controlled Tumor Protein, from <i>Arabidopsis thaliana</i> . <i>Plant Cell</i> , 2009, 20, 3430-3447.	6.6	155
5	Plant perception of β^2 -aminobutyric acid is mediated by an aspartyl-tRNA synthetase. <i>Nature Chemical Biology</i> , 2014, 10, 450-456.	8.0	128
6	Characterization and Expression Analysis of a Serine Acetyltransferase Gene Family Involved in a Key Step of the Sulfur Assimilation Pathway in <i>Arabidopsis</i> . <i>Plant Physiology</i> , 2005, 137, 220-230.	4.8	127
7	Genomic and functional characterization of the <i>oas</i> gene family encoding O-acetylserine (thiol) lyases, enzymes catalyzing the final step in cysteine biosynthesis in <i>Arabidopsis thaliana</i> . <i>Gene</i> , 2000, 253, 237-247.	2.2	125
8	Alternative Splicing Plays a Critical Role in Maintaining Mineral Nutrient Homeostasis in Rice (<i>Oryza sativa</i>). <i>Plant Cell</i> , 2018, 30, 2267-2285.	6.6	121
9	The cysteine synthase complex from plants. <i>FEBS Journal</i> , 2001, 268, 686-693.	0.2	106
10	Molecular and biochemical analysis of the enzymes of cysteine biosynthesis in the plant <i>Arabidopsis thaliana</i> . <i>Amino Acids</i> , 2002, 22, 245-257.	2.7	103
11	Use of Biomolecular Interaction Analysis to Elucidate the Regulatory Mechanism of the Cysteine Synthase Complex from <i>Arabidopsis thaliana</i> . <i>Journal of Biological Chemistry</i> , 2002, 277, 30629-30634.	3.4	97
12	Interaction between hormonal and mitochondrial signalling during growth, development and in plant defence responses. <i>Plant, Cell and Environment</i> , 2016, 39, 1127-1139.	5.7	79
13	Phosphite-induced changes of the transcriptome and secretome in <i>Solanum tuberosum</i> leading to resistance against <i>Phytophthora infestans</i> . <i>BMC Plant Biology</i> , 2014, 14, 254.	3.6	77
14	Phosphorus nutrition of phosphorus-sensitive Australian native plants: threats to plant communities in a global biodiversity hotspot. , 2013, 1, cot010-cot010.		76
15	Identification and characterisation of hypomethylated DNA loci controlling quantitative resistance in <i>Arabidopsis</i> . <i>ELife</i> , 2019, 8, .	6.0	73
16	ANAC017 Coordinates Organellar Functions and Stress Responses by Reprogramming Retrograde Signaling. <i>Plant Physiology</i> , 2019, 180, 634-653.	4.8	72
17	Differentiating phosphate-dependent and phosphate-independent systemic phosphate-starvation response networks in <i>Arabidopsis thaliana</i> through the application of phosphite. <i>Journal of Experimental Botany</i> , 2015, 66, 2501-2514.	4.8	63
18	Subcellular localization and tissue specific expression of amidase 1 from <i>Arabidopsis thaliana</i> . <i>Planta</i> , 2006, 224, 1241-1253.	3.2	60

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19	Applications of hyperspectral imaging in plant phenotyping. <i>Trends in Plant Science</i> , 2022, 27, 301-315.	8.8	60
20	Linking mitochondrial and chloroplast retrograde signalling in plants. <i>Philosophical Transactions of the Royal Society B: Biological Sciences</i> , 2020, 375, 20190410.	4.0	55
21	SPX4 Acts on PHR1-Dependent and -Independent Regulation of Shoot Phosphorus Status in <i>Arabidopsis</i> . <i>Plant Physiology</i> , 2019, 181, 332-352.	4.8	54
22	Mitochondrial signalling is critical for acclimation and adaptation to flooding in <i>Arabidopsis thaliana</i> . <i>Plant Journal</i> , 2020, 103, 227-247.	5.7	51
23	Stress responsive mitochondrial proteins in <i>Arabidopsis thaliana</i> . <i>Free Radical Biology and Medicine</i> , 2018, 122, 28-39.	2.9	50
24	RNA-Seq analysis identifies key genes associated with haustorial development in the root hemiparasite <i>Santalum album</i> . <i>Frontiers in Plant Science</i> , 2015, 6, 661.	3.6	49
25	The Transcription Factor MYB29 Is a Regulator of <i>ALTERNATIVE OXIDASE1a</i> . <i>Plant Physiology</i> , 2017, 173, 1824-1843.	4.8	46
26	Stepwise Evolution of a Buried Inhibitor Peptide over 45 My. <i>Molecular Biology and Evolution</i> , 2017, 34, 1505-1516.	8.9	45
27	RNA-seq analysis identifies an intricate regulatory network controlling cluster root development in white lupin. <i>BMC Genomics</i> , 2014, 15, 230.	2.8	43
28	Acclimation responses of <i>Arabidopsis thaliana</i> to sustained phosphite treatments. <i>Journal of Experimental Botany</i> , 2013, 64, 1731-1743.	4.8	42
29	Direct comparison of <i>Arabidopsis</i> gene expression reveals different responses to melatonin versus auxin. <i>BMC Plant Biology</i> , 2019, 19, 567.	3.6	37
30	A family of small, cyclic peptides buried in prealbumin since the Eocene epoch. <i>Plant Direct</i> , 2018, 2, e00042.	1.9	32
31	Mitochondrial function modulates touch signalling in <i>Arabidopsis thaliana</i> . <i>Plant Journal</i> , 2019, 97, 623-645.	5.7	32
32	Biochemical Characterization of Two Wheat Phosphoethanolamine N-Methyltransferase Isoforms with Different Sensitivities to Inhibition by Phosphatidic Acid. <i>Journal of Biological Chemistry</i> , 2009, 284, 31962-31971.	3.4	31
33	RNA-seq analysis of laser microdissected <i>Arabidopsis thaliana</i> leaf epidermis, mesophyll and vasculature defines tissue-specific transcriptional responses to multiple stress treatments. <i>Plant Journal</i> , 2021, 107, 938-955.	5.7	31
34	Inactivation of Mitochondrial Complex I Induces the Expression of a Twin Cysteine Protein that Targets and Affects Cytosolic, Chloroplastidic and Mitochondrial Function. <i>Molecular Plant</i> , 2016, 9, 696-710.	8.3	28
35	Isolation of tissues and preservation of <i>scRNA</i> from intact, germinated barley grain. <i>Plant Journal</i> , 2017, 91, 754-765.	5.7	28
36	Plant-Specific Preprotein and Amino Acid Transporter Proteins Are Required for tRNA Import into Mitochondria. <i>Plant Physiology</i> , 2016, 172, 2471-2490.	4.8	27

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37	Extracellular Vesicles from <i>Fusarium graminearum</i> Contain Protein Effectors Expressed during Infection of Corn. <i>Journal of Fungi</i> (Basel, Switzerland), 2021, 7, 977.	3.5	26
38	Next generation sequencing and de novo transcriptomics to study gene evolution. <i>Plant Methods</i> , 2014, 10, 34.	4.3	23
39	Molecular and physiological responses during thermal acclimation of leaf photosynthesis and respiration in rice. <i>Plant, Cell and Environment</i> , 2020, 43, 594-610.	5.7	23
40	Magnetic quantitative reverse transcription PCR: A high-throughput method for mRNA extraction and quantitative reverse transcription PCR. <i>BioTechniques</i> , 2007, 43, 206-211.	1.8	20
41	NMT1 and NMT3 <i>N</i> -Methyltransferase Activity Is Critical to Lipid Homeostasis, Morphogenesis, and Reproduction. <i>Plant Physiology</i> , 2018, 177, 1605-1628.	4.8	20
42	Characterization of a novel β -barrel protein (AtOM47) from the mitochondrial outer membrane of <i>Arabidopsis thaliana</i> . <i>Journal of Experimental Botany</i> , 2016, 67, 6061-6075.	4.8	19
43	<i>Arabidopsis</i> DGD1 SUPPRESSOR1 Is a Subunit of the Mitochondrial Contact Site and Cristae Organizing System and Affects Mitochondrial Biogenesis. <i>Plant Cell</i> , 2019, 31, 1856-1878.	6.6	19
44	Noninvasive imaging technologies in plant phenotyping. <i>Trends in Plant Science</i> , 2022, 27, 316-317.	8.8	19
45	Evidence for Ancient Origins of Bowman-Birk Inhibitors from <i>Selaginella moellendorffii</i> . <i>Plant Cell</i> , 2017, 29, 461-473.	6.6	18
46	Accumulation of endogenous peptides triggers a pathogen stress response in <i>Arabidopsis thaliana</i> . <i>Plant Journal</i> , 2018, 96, 705-715.	5.7	18
47	Temporal tissue-specific regulation of transcriptomes during barley (<i>Hordeum vulgare</i>) seed germination. <i>Plant Journal</i> , 2020, 101, 700-715.	5.7	18
48	An Ancient Peptide Family Buried within Vicilin Precursors. <i>ACS Chemical Biology</i> , 2019, 14, 979-993.	3.4	17
49	Transcriptional and biochemical analyses of gibberellin expression and content in germinated barley grain. <i>Journal of Experimental Botany</i> , 2020, 71, 1870-1884.	4.8	17
50	Root Cell-Specific Regulators of Phosphate-Dependent Growth. <i>Plant Physiology</i> , 2017, 174, 1969-1989.	4.8	15
51	The retrograde signaling regulator ANAC017 recruits the MKK9-MPK3/6, ethylene, and auxin signaling pathways to balance mitochondrial dysfunction with growth. <i>Plant Cell</i> , 2022, 34, 3460-3481.	6.6	15
52	An enzymatic fluorescent assay for the quantification of phosphite in a microtiter plate format. <i>Analytical Biochemistry</i> , 2011, 412, 74-78.	2.4	14
53	CWAS on multiple traits identifies mitochondrial ACONITASE3 as important for acclimation to submergence stress. <i>Plant Physiology</i> , 2022, 188, 2039-2058.	4.8	13
54	Enhanced reactive oxygen detoxification occurs in salt-stressed soybean roots expressing <i>GmSALT3</i> . <i>Physiologia Plantarum</i> , 2022, 174, e13709.	5.2	13

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55	Genes That Mediate Starch Metabolism in Developing and Germinated Barley Grain. <i>Frontiers in Plant Science</i> , 2021, 12, 641325.	3.6	12
56	The genetic origin of evolidine, the first cyclopeptide discovered in plants, and related orbitides. <i>Journal of Biological Chemistry</i> , 2020, 295, 14510-14521.	3.4	11
57	Cross-species transcriptomic analyses reveals common and opposite responses in <i>Arabidopsis</i> , rice and barley following oxidative stress and hormone treatment. <i>BMC Plant Biology</i> , 2022, 22, 62.	3.6	11
58	Cyclic Peptides in Seed of <i>Annona muricata</i> Are Ribosomally Synthesized. <i>Journal of Natural Products</i> , 2020, 83, 1167-1173.	3.0	9
59	Knockdown of Succinate Dehydrogenase Assembly Factor 2 Induces Reactive Oxygen Species-Mediated Auxin Hypersensitivity Causing pH-Dependent Root Elongation. <i>Plant and Cell Physiology</i> , 2021, 62, 1185-1198.	3.1	9
60	The mitochondrial AAA protease FTSH3 regulates Complex I abundance by promoting its disassembly. <i>Plant Physiology</i> , 2021, 186, 599-610.	4.8	8
61	Conserved and Opposite Transcriptome Patterns during Germination in <i>Hordeum vulgare</i> and <i>Arabidopsis thaliana</i> . <i>International Journal of Molecular Sciences</i> , 2020, 21, 7404.	4.1	6
62	Transcriptional variation is associated with differences in shoot sodium accumulation in distinct barley varieties. <i>Environmental and Experimental Botany</i> , 2019, 166, 103812.	4.2	5
63	Laser-Capture Microdissection RNA-Sequencing for Spatial and Temporal Tissue-Specific Gene Expression Analysis in Plants. <i>Journal of Visualized Experiments</i> , 2020, , .	0.3	3
64	scCloudMine: A cloud-based app for visualization, comparison, and exploration of single-cell transcriptomic data. <i>Plant Communications</i> , 2022, 3, 100302.	7.7	2