

Miroslav Ovečka

List of Publications by Year in descending order

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Version: 2024-02-01

39
papers

1,585
citations

489802

18
h-index

355658

38
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46
all docs

46
docs citations

46
times ranked

2093
citing authors

#	ARTICLE	IF	CITATIONS
1	Imaging plant cells and organs with light-sheet and super-resolution microscopy. <i>Plant Physiology</i> , 2022, 188, 683-702.	2.3	23
2	ROOT HAIR DEFECTIVE 2 vesicular delivery to the apical plasma membrane domain during Arabidopsis root hair development. <i>Plant Physiology</i> , 2022, 188, 1563-1585.	2.3	10
3	Zebularine induces enzymatic DNA-protein crosslinks in 45S rDNA heterochromatin of <i>Arabidopsis</i> nuclei. <i>Nucleic Acids Research</i> , 2022, 50, 244-258.	6.5	7
4	Overexpression of alfalfa SIMK promotes root hair growth, nodule clustering and shoot biomass production. <i>Plant Biotechnology Journal</i> , 2021, 19, 767-784.	4.1	11
5	<i>In vivo</i> light-sheet microscopy resolves localisation patterns of FSD1, a superoxide dismutase with function in root development and osmoprotection. <i>Plant, Cell and Environment</i> , 2021, 44, 68-87.	2.8	27
6	Single Amino Acid Exchange in ACTIN2 Confers Increased Tolerance to Oxidative Stress in Arabidopsis der1-3 Mutant. <i>International Journal of Molecular Sciences</i> , 2021, 22, 1879.	1.8	8
7	HEAT SHOCK PROTEIN 90 proteins and YODA regulate main body axis formation during early embryogenesis. <i>Plant Physiology</i> , 2021, 186, 1526-1544.	2.3	9
8	TALEN-Based HvMPK3 Knock-Out Attenuates Proteome and Root Hair Phenotypic Responses to flg22 in Barley. <i>Frontiers in Plant Science</i> , 2021, 12, 666229.	1.7	11
9	GR24, A Synthetic Strigolactone Analog, and Light Affect the Organization of Cortical Microtubules in Arabidopsis Hypocotyl Cells. <i>Frontiers in Plant Science</i> , 2021, 12, 675981.	1.7	9
10	CRISPR/Cas9-Induced Loss-of-Function Mutation in the Barley Mitogen-Activated Protein Kinase 6 Gene Causes Abnormal Embryo Development Leading to Severely Reduced Grain Germination and Seedling Shootless Phenotype. <i>Frontiers in Plant Science</i> , 2021, 12, 670302.	1.7	10
11	YODA-HSP90 Module Regulates Phosphorylation-Dependent Inactivation of SPEECHLESS to Control Stomatal Development under Acute Heat Stress in Arabidopsis. <i>Molecular Plant</i> , 2020, 13, 612-633.	3.9	65
12	Advanced Microscopy Reveals Complex Developmental and Subcellular Localization Patterns of ANNEXIN 1 in Arabidopsis. <i>Frontiers in Plant Science</i> , 2020, 11, 1153.	1.7	13
13	Tissue culture, genetic transformation, interaction with beneficial microbes, and modern bio-imaging techniques in alfalfa research. <i>Critical Reviews in Biotechnology</i> , 2020, 40, 1265-1280.	5.1	6
14	Super-resolution imaging of microtubules in <i>Medicago sativa</i> . <i>Methods in Cell Biology</i> , 2020, 160, 237-251.	0.5	9
15	Biotechnological Perspectives of Omics and Genetic Engineering Methods in Alfalfa. <i>Frontiers in Plant Science</i> , 2020, 11, 592.	1.7	16
16	Complementary Superresolution Visualization of Composite Plant Microtubule Organization and Dynamics. <i>Frontiers in Plant Science</i> , 2020, 11, 693.	1.7	8
17	Spatiotemporal Pattern of Ectopic Cell Divisions Contribute to Mis-Shaped Phenotype of Primary and Lateral Roots of katanin1 Mutant. <i>Frontiers in Plant Science</i> , 2020, 11, 734.	1.7	13
18	FSD1 : developmentally regulated plastidial, nuclear and cytoplasmic enzyme with anti-oxidative and osmoprotective role. <i>Plant, Cell and Environment</i> , 2020, , .	2.8	9

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19	Cell and Developmental Biology of Plant Mitogen-Activated Protein Kinases. Annual Review of Plant Biology, 2018, 69, 237-265.	8.6	79
20	Advances in Imaging Plant Cell Dynamics. Plant Physiology, 2018, 176, 80-93.	2.3	68
21	Multiscale imaging of plant development by light-sheet fluorescence microscopy. Nature Plants, 2018, 4, 639-650.	4.7	109
22	Advanced microscopy methods for bioimaging of mitotic microtubules in plants. Methods in Cell Biology, 2018, 145, 129-158.	0.5	26
23	Gene Expression Pattern and Protein Localization of Arabidopsis Phospholipase D Alpha 1 Revealed by Advanced Light-Sheet and Super-Resolution Microscopy. Frontiers in Plant Science, 2018, 9, 371.	1.7	49
24	Katanin Effects on Dynamics of Cortical Microtubules and Mitotic Arrays in Arabidopsis thaliana Revealed by Advanced Live-Cell Imaging. Frontiers in Plant Science, 2017, 8, 866.	1.7	73
25	Alfalfa Root Growth Rate Correlates with Progression of Microtubules during Mitosis and Cytokinesis as Revealed by Environmental Light-Sheet Microscopy. Frontiers in Plant Science, 2017, 8, 1870.	1.7	13
26	Katanin: A Sword Cutting Microtubules for Cellular, Developmental, and Physiological Purposes. Frontiers in Plant Science, 2017, 8, 1982.	1.7	59
27	Monitoring protein phosphorylation by acrylamide pendant Phos-Tag in various plants. Frontiers in Plant Science, 2015, 6, 336.	1.7	15
28	Preparation of plants for developmental and cellular imaging by light-sheet microscopy. Nature Protocols, 2015, 10, 1234-1247.	5.5	104
29	Superresolution live imaging of plant cells using structured illumination microscopy. Nature Protocols, 2015, 10, 1248-1263.	5.5	76
30	Developmental Nuclear Localization and Quantification of GFP-Tagged EB1c in Arabidopsis Root Using Light-Sheet Microscopy. Frontiers in Plant Science, 2015, 6, 1187.	1.7	36
31	Endosomal Interactions during Root Hair Growth. Frontiers in Plant Science, 2015, 6, 1262.	1.7	17
32	Trans-Golgi network localized small GTPase RabA1d is involved in cell plate formation and oscillatory root hair growth. BMC Plant Biology, 2014, 14, 252.	1.6	52
33	Salt-induced subcellular kinase relocation and seedling susceptibility caused by overexpression of Medicago SIMKK in Arabidopsis. Journal of Experimental Botany, 2014, 65, 2335-2350.	2.4	37
34	Proteomic and Biochemical Analyses Show a Functional Network of Proteins Involved in Antioxidant Defense of the Arabidopsis anp2anp3 Double Mutant. Journal of Proteome Research, 2014, 13, 5347-5361.	1.8	20
35	Dynamics and Organization of Cortical Microtubules as Revealed by Superresolution Structured Illumination Microscopy. Plant Physiology, 2014, 165, 129-148.	2.3	64
36	Involvement of YODA and mitogen activated protein kinase 6 in Arabidopsis postembryogenic root development through auxin upregulation and cell division plane orientation. New Phytologist, 2014, 203, 1175-1193.	3.5	118

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37	Starch biosynthesis, its regulation and biotechnological approaches to improve crop yields. <i>Biotechnology Advances</i> , 2014, 32, 87-106.	6.0	211
38	Live Microscopy Analysis of Endosomes and Vesicles in Tip-Growing Root Hairs. <i>Methods in Molecular Biology</i> , 2014, 1209, 31-44.	0.4	4
39	Structural Sterols Are Involved in Both the Initiation and Tip Growth of Root Hairs in <i>Arabidopsis thaliana</i> . <i>Plant Cell</i> , 2010, 22, 2999-3019.	3.1	87