

Miroslav Ovecka

List of Publications by Year in Descending Order

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The third column is the impact factor (IF) of the journal, and the fourth column is the number of citations of the article.

38

papers

872

citations

16

h-index

29

g-index

46

ext. papers

1,391

ext. citations

8.4

avg, IF

4.17

L-index

#	Paper	IF	Citations
38	Imaging plant cells and organs with light-sheet and super-resolution microscopy.. <i>Plant Physiology</i> , 2022 , 188, 683-702	6.6	6
37	HEAT SHOCK PROTEIN 90 proteins and YODA regulate main body axis formation during early embryogenesis. <i>Plant Physiology</i> , 2021 , 186, 1526-1544	6.6	2
36	TALEN-Based Knock-Out Attenuates Proteome and Root Hair Phenotypic Responses to flg22 in Barley. <i>Frontiers in Plant Science</i> , 2021 , 12, 666229	6.2	1
35	Overexpression of alfalfa SIMK promotes root hair growth, nodule clustering and shoot biomass production. <i>Plant Biotechnology Journal</i> , 2021 , 19, 767-784	11.6	4
34	In vivo 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	8.4	8
33	Single Amino Acid Exchange in ACTIN2 Confers Increased Tolerance to Oxidative Stress in Arabidopsis Mutant. <i>International Journal of Molecular Sciences</i> , 2021 , 22,	6.3	2
32	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	6.2	2
31	CRISPR/Cas9-Induced Loss-of-Function Mutation in the Barley Gene Causes Abnormal Embryo Development Leading to Severely Reduced Grain Germination and Seedling Shootless Phenotype. <i>Frontiers in Plant Science</i> , 2021 , 12, 670302	6.2	1
30	Zebularine induces enzymatic DNA-protein crosslinks in 45S rDNA heterochromatin of Arabidopsis nuclei.. <i>Nucleic Acids Research</i> , 2021 ,	20.1	3
29	Super-resolution imaging of microtubules in Medicago sativa. <i>Methods in Cell Biology</i> , 2020 , 160, 237-251	11.8	4
28	Biotechnological Perspectives of Omics and Genetic Engineering Methods in Alfalfa. <i>Frontiers in Plant Science</i> , 2020 , 11, 592	6.2	5
27	Complementary Superresolution Visualization of Composite Plant Microtubule Organization and Dynamics. <i>Frontiers in Plant Science</i> , 2020 , 11, 693	6.2	6
26	Spatiotemporal Pattern of Ectopic Cell Divisions Contribute to Mis-Shaped Phenotype of Primary and Lateral Roots of Mutant. <i>Frontiers in Plant Science</i> , 2020 , 11, 734	6.2	9
25	FSD1: developmentally-regulated plastidial, nuclear and cytoplasmic enzyme with anti-oxidative and osmoprotective role. <i>Plant, Cell and Environment</i> , 2020 ,	8.4	2
24	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	14.4	34
23	Advanced Microscopy Reveals Complex Developmental and Subcellular Localization Patterns of ANNEXIN 1 in. <i>Frontiers in Plant Science</i> , 2020 , 11, 1153	6.2	7
22	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	9.4	4

21	Cell and Developmental Biology of Plant Mitogen-Activated Protein Kinases. <i>Annual Review of Plant Biology</i> , 2018 , 69, 237-265	30.7	44
20	Advanced microscopy methods for bioimaging of mitotic microtubules in plants. <i>Methods in Cell Biology</i> , 2018 , 145, 129-158	1.8	8
19	Gene Expression Pattern and Protein Localization of Arabidopsis Phospholipase D Alpha 1 Revealed by Advanced Light-Sheet and Super-Resolution Microscopy. <i>Frontiers in Plant Science</i> , 2018 , 9, 371	6.2	22
18	Advances in Imaging Plant Cell Dynamics. <i>Plant Physiology</i> , 2018 , 176, 80-93	6.6	46
17	Multiscale imaging of plant development by light-sheet fluorescence microscopy. <i>Nature Plants</i> , 2018 , 4, 639-650	11.5	51
16	Katanin Effects on Dynamics of Cortical Microtubules and Mitotic Arrays in Revealed by Advanced Live-Cell Imaging. <i>Frontiers in Plant Science</i> , 2017 , 8, 866	6.2	42
15	Alfalfa Root Growth Rate Correlates with Progression of Microtubules during Mitosis and Cytokinesis as Revealed by Environmental Light-Sheet Microscopy. <i>Frontiers in Plant Science</i> , 2017 , 8, 1870	6.2	10
14	Katanin: A Sword Cutting Microtubules for Cellular, Developmental, and Physiological Purposes. <i>Frontiers in Plant Science</i> , 2017 , 8, 1982	6.2	24
13	Preparation of plants for developmental and cellular imaging by light-sheet microscopy. <i>Nature Protocols</i> , 2015 , 10, 1234-47	18.8	46
12	Superresolution live imaging of plant cells using structured illumination microscopy. <i>Nature Protocols</i> , 2015 , 10, 1248-63	18.8	53
11	Monitoring protein phosphorylation by acrylamide pendant Phos-Tag in various plants. <i>Frontiers in Plant Science</i> , 2015 , 6, 336	6.2	13
10	Developmental Nuclear Localization and Quantification of GFP-Tagged EB1c in Arabidopsis Root Using Light-Sheet Microscopy. <i>Frontiers in Plant Science</i> , 2015 , 6, 1187	6.2	18
9	Endosomal Interactions during Root Hair Growth. <i>Frontiers in Plant Science</i> , 2015 , 6, 1262	6.2	10
8	Proteomic and biochemical analyses show a functional network of proteins involved in antioxidant defense of the Arabidopsis anp2anp3 double mutant. <i>Journal of Proteome Research</i> , 2014 , 13, 5347-61	5.6	15
7	Dynamics and organization of cortical microtubules as revealed by superresolution structured illumination microscopy. <i>Plant Physiology</i> , 2014 , 165, 129-48	6.6	35
6	Involvement of YODA and mitogen activated protein kinase 6 in Arabidopsis post-embryonic root development through auxin up-regulation and cell division plane orientation. <i>New Phytologist</i> , 2014 , 203, 1175-1193	9.8	74
5	Starch biosynthesis, its regulation and biotechnological approaches to improve crop yields. <i>Biotechnology Advances</i> , 2014 , 32, 87-106	17.8	137
4	Trans-Golgi network localized small GTPase RabA1d is involved in cell plate formation and oscillatory root hair growth. <i>BMC Plant Biology</i> , 2014 , 14, 252	5.3	36

3	Salt-induced subcellular kinase relocation and seedling susceptibility caused by overexpression of Medicago SIMKK in Arabidopsis. <i>Journal of Experimental Botany</i> , 2014 , 65, 2335-50	7	29
2	Live microscopy analysis of endosomes and vesicles in tip-growing root hairs. <i>Methods in Molecular Biology</i> , 2014 , 1209, 31-44	1.4	0
1	Structural sterols are involved in both the initiation and tip growth of root hairs in Arabidopsis thaliana. <i>Plant Cell</i> , 2010 , 22, 2999-3019	11.6	59