

Michaela Sedlarova

List of Publications by Year in descending order

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Version: 2024-02-01

59
papers

1,414
citations

331670

21
h-index

361022

35
g-index

60
all docs

60
docs citations

60
times ranked

1947
citing authors

#	ARTICLE	IF	CITATIONS
1	Pseudoplectania africana (Sarcosomataceae, Pezizales), a new species from South Africa. <i>Bothalia</i> , 2022, 52, .	0.3	1
2	Bioactive Compounds and Their Impact on Protein Modification in Human Cells. <i>International Journal of Molecular Sciences</i> , 2022, 23, 7424.	4.1	3
3	Tocopherol controls D1 amino acid oxidation by oxygen radicals in Photosystem II. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2021, 118, .	7.1	26
4	Protein S-nitrosation differentially modulates tomato responses to infection by hemi-biotrophic oomycetes of <i>Phytophthora</i> spp.. <i>Horticulture Research</i> , 2021, 8, 34.	6.3	4
5	Free Radical-Mediated Protein Radical Formation in Differentiating Monocytes. <i>International Journal of Molecular Sciences</i> , 2021, 22, 9963.	4.1	9
6	Auxin Metabolite Profiling in Isolated and Intact Plant Nuclei. <i>International Journal of Molecular Sciences</i> , 2021, 22, 12369.	4.1	4
7	Powdery Mildews on Trees and Shrubs in Botanical Gardens, Parks and Urban Green Areas in the Czech Republic. <i>Forests</i> , 2020, 11, 967.	2.1	10
8	Differential modulation of S-nitrosoglutathione reductase and reactive nitrogen species in wild and cultivated tomato genotypes during development and powdery mildew infection. <i>Plant Physiology and Biochemistry</i> , 2020, 155, 297-310.	5.8	6
9	The Anti-Senescence Activity of Cytokinin Arabinosides in Wheat and Arabidopsis Is Negatively Correlated with Ethylene Production. <i>International Journal of Molecular Sciences</i> , 2020, 21, 8109.	4.1	9
10	Reactive Oxygen Species Imaging in U937 Cells. <i>Frontiers in Physiology</i> , 2020, 11, 552569.	2.8	23
11	Interplay between antioxidants in response to photooxidative stress in Arabidopsis. <i>Free Radical Biology and Medicine</i> , 2020, 160, 894-907.	2.9	19
12	Amended description of the rarely reported bryophilous ascomycete Octospora svrcekii (Pyronemataceae) with notes on the phylogeny of the section Wrightoideae. <i>Phytotaxa</i> , 2020, 475, 1-17.	0.3	8
13	Characterization of Protein Radicals in Arabidopsis. <i>Frontiers in Physiology</i> , 2019, 10, 958.	2.8	7
14	Nuclear Disposition of Alien Chromosome Introgressions into Wheat and Rye Using 3D-FISH. <i>International Journal of Molecular Sciences</i> , 2019, 20, 4143.	4.1	12
15	Instability of Alien Chromosome Introgressions in Wheat Associated with Improper Positioning in the Nucleus. <i>International Journal of Molecular Sciences</i> , 2019, 20, 1448.	4.1	14
16	Organic radical imaging in plants: Focus on protein radicals. <i>Free Radical Biology and Medicine</i> , 2019, 130, 568-575.	2.9	13
17	Reactive Oxygen Species as a Response to Wounding: In Vivo Imaging in Arabidopsis thaliana. <i>Frontiers in Plant Science</i> , 2019, 10, 1660.	3.6	32
18	Involvement of S-nitrosothiols modulation by S-nitrosoglutathione reductase in defence responses of lettuce and wild <i>Lactuca</i> spp. to biotrophic mildews. <i>Planta</i> , 2018, 247, 1203-1215.	3.2	17

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19	Data on detection of singlet oxygen, hydroxyl radical and organic radical in <i>Arabidopsis thaliana</i> . <i>Data in Brief</i> , 2018, 21, 2246-2252.	1.0	14
20	Singlet oxygen imaging using fluorescent probe Singlet Oxygen Sensor Green in photosynthetic organisms. <i>Scientific Reports</i> , 2018, 8, 13685.	3.3	70
21	Chemical quenching of singlet oxygen by plastoquinols and their oxidation products in <i>Arabidopsis</i> . <i>Plant Journal</i> , 2018, 95, 848-861.	5.7	22
22	Pathogenic variability of <i>Plasmopara halstedii</i> infecting sunflower in the Czech Republic. <i>Plant Pathology</i> , 2018, 67, 136-144.	2.4	9
23	Review of tomato powdery mildew – a challenging problem for researchers, breeders and growers. <i>Acta Horticulturae</i> , 2017, , 107-116.	0.2	4
24	Characterization of S-nitrosoglutathione reductase from <i>Brassica</i> and <i>Lactuca</i> spp. and its modulation during plant development. <i>Nitric Oxide - Biology and Chemistry</i> , 2017, 68, 68-76.	2.7	27
25	Lipoxygenase in singlet oxygen generation as a response to wounding: in vivo imaging in <i>Arabidopsis thaliana</i> . <i>Scientific Reports</i> , 2017, 7, 9831.	3.3	49
26	Methodology of virulence screening and race characterization of <i>Plasmopara halstedii</i> , and resistance evaluation in sunflower – a review. <i>Plant Pathology</i> , 2017, 66, 171-185.	2.4	35
27	Re-Evaluation of Imaging Methods of Reactive Oxygen and Nitrogen Species in Plants and Fungi: Influence of Cell Wall Composition. <i>Frontiers in Physiology</i> , 2017, 8, 826.	2.8	7
28	Transcriptional regulation of male-sterility in 7B-1 male-sterile tomato mutant. <i>PLoS ONE</i> , 2017, 12, e0170715.	2.5	24
29	Tritium influence on morphology, reactive oxygen species production and catalase gene expression in <i>Pseudodoclonium basilense</i> and <i>Stigeoclonium nanum</i> (Chlorophyta). <i>Fottea</i> , 2017, 17, 127-135.	0.9	3
30	First Report of <i>Plasmopara halstedii</i> New Races 705 and 715 on sunflower from the Czech Republic - Short Communication. <i>Plant Protection Science</i> , 2016, 52, 182-187.	1.4	17
31	Singlet oxygen production in <i>Chlamydomonas reinhardtii</i> under heat stress. <i>Scientific Reports</i> , 2016, 6, 20094.	3.3	41
32	Identification of <i>Bremia lactucae</i> and <i>Oidium neolycopersici</i> proteins extracted for intact spore MALDI mass spectrometric biotyping. <i>Electrophoresis</i> , 2016, 37, 2940-2952.	2.4	6
33	The Role of Nitric Oxide in Development and Pathogenesis of Biotrophic Phytopathogens – Downy and Powdery Mildews. <i>Advances in Botanical Research</i> , 2016, 77, 263-283.	1.1	7
34	Oxidative Damage of U937 Human Leukemic Cells Caused by Hydroxyl Radical Results in Singlet Oxygen Formation. <i>PLoS ONE</i> , 2015, 10, e0116958.	2.5	24
35	Early and long-term responses of cucumber cells to high cadmium concentration are modulated by nitric oxide and reactive oxygen species. <i>Acta Physiologiae Plantarum</i> , 2015, 37, 1.	2.1	9
36	The formation of electronically excited species in the human multiple myeloma cell suspension. <i>Scientific Reports</i> , 2015, 5, 8882.	3.3	20

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37	Singlet oxygen scavenging activity of tocopherol and plastochromanol in <i>Arabidopsis thaliana</i> : relevance to photooxidative stress. <i>Plant, Cell and Environment</i> , 2014, 37, 392-401.	5.7	54
38	Resistance mechanisms of wild tomato germplasm to infection of <i>Oidium neolycopersici</i> . <i>European Journal of Plant Pathology</i> , 2014, 138, 569-596.	1.7	27
39	Identification of fungal microorganisms by MALDI-TOF mass spectrometry. <i>Biotechnology Advances</i> , 2014, 32, 230-241.	11.7	147
40	MALDI-based intact spore mass spectrometry of downy and powdery mildews. <i>Journal of Mass Spectrometry</i> , 2012, 47, 978-986.	1.6	21
41	Small CAB-like proteins prevent formation of singlet oxygen in the damaged photosystem II complex of the cyanobacterium <i>Synechocystis sp.</i> PCC 6803. <i>Plant, Cell and Environment</i> , 2012, 35, 806-818.	5.7	45
42	The effects of reactive nitrogen and oxygen species on the regeneration and growth of cucumber cells from isolated protoplasts. <i>Plant Cell, Tissue and Organ Culture</i> , 2012, 108, 237-249.	2.3	19
43	The role of nitric oxide in the germination of plant seeds and pollen. <i>Plant Science</i> , 2011, 181, 560-572.	3.6	121
44	Dual role of nitric oxide in <i>Solanum spp.</i> <i>Oidium neolycopersici</i> interactions. <i>Environmental and Experimental Botany</i> , 2011, 74, 37-44.	4.2	24
45	Influence of nitric oxide and reactive oxygen species on development of lettuce downy mildew in <i>Lactuca spp.</i> . <i>European Journal of Plant Pathology</i> , 2011, 129, 267-280.	1.7	32
46	Photosynthetic responses of lettuce to downy mildew infection and cytokinin treatment. <i>Plant Physiology and Biochemistry</i> , 2010, 48, 716-723.	5.8	42
47	Recondensation level of repetitive sequences in the plant protoplast nucleus is limited by oxidative stress. <i>Journal of Experimental Botany</i> , 2010, 61, 2395-2401.	4.8	15
48	Influence of nitric oxide and reactive oxygen species on development of lettuce downy mildew in <i>Lactuca spp.</i> , 2010, , 135-148.		0
49	Subcellular localization and biochemical comparison of cytosolic and secreted cytokinin dehydrogenase enzymes from maize. <i>Journal of Experimental Botany</i> , 2009, 60, 2701-2712.	4.8	68
50	Local and systemic production of nitric oxide in tomato responses to powdery mildew infection. <i>Molecular Plant Pathology</i> , 2009, 10, 501-513.	4.2	57
51	Histological aspects of <i>Cucumis melo</i> PI 313970 resistance to <i>Podosphaera xanthii</i> and <i>Golovinomyces cichoracearum</i> . <i>Journal of Plant Diseases and Protection</i> , 2009, 116, 169-176.	2.9	9
52	Diversity of defence mechanisms in plant-fungus interactions: a case study of <i>Lactuca spp.</i> and <i>Bremia lactuca</i> . <i>European Journal of Plant Pathology</i> , 2008, 122, 71-89.	1.7	56
53	First report of <i>Erysiphe palczewskii</i> on <i>Caragana arborescens</i> in the Czech Republic. <i>Plant Pathology</i> , 2008, 57, 779-779.	2.4	7
54	Diversity of defence mechanisms in plant-fungus interactions: a case study of <i>Lactuca spp.</i> and <i>Bremia lactuca</i> . , 2008, , 71-89.		0

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55	Photorealistic Modeling of the Growth of Filamentous Specimens. Eurasip Journal on Advances in Signal Processing, 2007, 2008, .	1.7	0
56	Localisation and metabolism of reactive oxygen species during Bremia lactucae pathogenesis in Lactuca sativa and wild Lactuca spp.. Plant Physiology and Biochemistry, 2007, 45, 607-616.	5.8	21
57	First report of rhododendron powdery mildew on Rhododendron spp. in the Czech Republic. Plant Pathology, 2007, 56, 354-354.	2.4	3
58	Phenotypic and histological expression of different genetic backgrounds in interactions between lettuce, wild Lactuca spp., L. sativa Å— L. serriola hybrids and Bremia lactucae. European Journal of Plant Pathology, 2006, 115, 431-441.	1.7	17
59	Histochemical Detection and Role of Phenolic Compounds in the Defense Response of Lactuca spp. to Lettuce Downy Mildew (Bremia lactucae). Journal of Phytopathology, 2001, 149, 693-697.	1.0	24