

Farida V Minibayeva

List of Publications by Citations

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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.

80
papers

6,838
citations

26
h-index

82
g-index

88
ext. papers

7,674
ext. citations

3.6
avg, IF

5.16
L-index

#	Paper	IF	Citations
80	Guidelines for the use and interpretation of assays for monitoring autophagy (3rd edition). <i>Autophagy</i> , 2016 , 12, 1-222	10.2	3838
79	The apoplastic oxidative burst in response to biotic stress in plants: a three-component system. <i>Journal of Experimental Botany</i> , 2002 , 53, 1367-1376	7	426
78	The apoplastic oxidative burst in response to biotic stress in plants: a three-component system. <i>Journal of Experimental Botany</i> , 2002 , 53, 1367-1376	7	305
77	What is stress? Concepts, definitions and applications in seed science. <i>New Phytologist</i> , 2010 , 188, 655-73	3.8	287
76	The apoplastic oxidative burst in response to biotic stress in plants: a three-component system. <i>Journal of Experimental Botany</i> , 2002 , 53, 1367-76	7	262
75	Early signalling events in the apoplastic oxidative burst in suspension cultured French bean cells involve cAMP and Ca. <i>New Phytologist</i> , 2001 , 151, 185-194	9.8	121
74	Extracellular production of reactive oxygen species during seed germination and early seedling growth in <i>Pisum sativum</i> . <i>Journal of Plant Physiology</i> , 2010 , 167, 805-11	3.6	114
73	Wound-induced apoplastic peroxidase activities: their roles in the production and detoxification of reactive oxygen species. <i>Plant, Cell and Environment</i> , 2009 , 32, 497-508	8.4	113
72	Plant Sterols: Diversity, Biosynthesis, and Physiological Functions. <i>Biochemistry (Moscow)</i> , 2016 , 81, 819-34	3.4	87
71	Possible functions of extracellular peroxidases in stress-induced generation and detoxification of active oxygen species. <i>Phytochemistry Reviews</i> , 2004 , 3, 173-193	7.7	87
70	Oxidative stress-induced autophagy in plants: the role of mitochondria. <i>Plant Physiology and Biochemistry</i> , 2012 , 59, 11-9	5.4	83
69	Recent advances in understanding the origin of the apoplastic oxidative burst in plant cells. <i>Free Radical Research</i> , 1999 , 31 Suppl, S137-45	4	83
68	Extracellular superoxide production, viability and redox poise in response to desiccation in recalcitrant <i>Castanea sativa</i> seeds. <i>Plant, Cell and Environment</i> , 2010 , 33, 59-75	8.4	72
67	An oxidative burst of superoxide in embryonic axes of recalcitrant sweet chestnut seeds as induced by excision and desiccation. <i>Physiologia Plantarum</i> , 2008 , 133, 131-9	4.6	62
66	Role of extracellular peroxidase in the superoxide production by wheat root cells. <i>Protoplasma</i> , 2001 , 217, 125-8	3.4	61
65	Roles of apoplastic peroxidases in plant response to wounding. <i>Phytochemistry</i> , 2015 , 112, 122-9	4	52
64	High rates of extracellular superoxide production in bryophytes and lichens, and an oxidative burst in response to rehydration following desiccation. <i>New Phytologist</i> , 2001 , 152, 333-341	9.8	45

63	Production of reactive oxygen species in excised, desiccated and cryopreserved explants of <i>Trichilia dregeana</i> Sond. <i>South African Journal of Botany</i> , 2010 , 76, 112-118	2.9	37
62	Co-occurrence of the multicopper oxidases tyrosinase and laccase in lichens in sub-order peltigerineae. <i>Annals of Botany</i> , 2006 , 98, 1035-42	4.1	37
61	A heme peroxidase of the ascomyceteous lichen <i>Leptogium saturninum</i> oxidizes high-redox potential substrates. <i>Fungal Genetics and Biology</i> , 2011 , 48, 1139-45	3.9	33
60	Stress physiology and the symbiosis		31
59	An oxidative burst of hydrogen peroxide during rehydration following desiccation in the moss <i>Atrichum androgyneum</i> . <i>New Phytologist</i> , 2002 , 155, 275-283	9.8	31
58	High rates of extracellular superoxide production by lichens in the suborder Peltigerineae correlate with indices of high metabolic activity. <i>Plant, Cell and Environment</i> , 2003 , 26, 1827-1837	8.4	30
57	Contribution of a plasma membrane redox system to the superoxide production by wheat root cells. <i>Protoplasma</i> , 1998 , 205, 101-106	3.4	29
56	A proposed interplay between peroxidase, amine oxidase and lipoxygenase in the wounding-induced oxidative burst in <i>Pisum sativum</i> seedlings. <i>Phytochemistry</i> , 2015 , 112, 130-8	4	28
55	Occurrence of laccases in lichenized ascomycetes of the Peltigerineae. <i>Mycological Research</i> , 2006 , 110, 846-53		28
54	Hardening by partial dehydration and ABA increase desiccation tolerance in the cyanobacterial lichen <i>Peltigera polydactylon</i> . <i>Annals of Botany</i> , 2005 , 96, 109-15	4.1	25
53	Diversity of laccases from lichens in suborder Peltigerineae. <i>Bryologist</i> , 2009 , 112, 418-426	0.7	24
52	Cell wall peroxidases in the liverwort <i>Dumortiera hirsuta</i> are responsible for extracellular superoxide production, and can display tyrosinase activity. <i>Physiologia Plantarum</i> , 2010 , 138, 474-84	4.6	23
51	Heat production of wheat roots induced by the disruption of proton gradient by salicylic acid. <i>Thermochimica Acta</i> , 2004 , 422, 101-104	2.9	19
50	Alleviation of dormancy by reactive oxygen species in <i>Bidens pilosa</i> L. seeds. <i>South African Journal of Botany</i> , 2010 , 76, 601-605	2.9	18
49	Salicylic acid changes the properties of extracellular peroxidase activity secreted from wounded wheat (<i>Triticum aestivum</i> L.) roots. <i>Protoplasma</i> , 2003 , 221, 67-72	3.4	18
48	Molecular Mechanisms of Autophagy in Plants: Role of ATG8 Proteins in Formation and Functioning of Autophagosomes. <i>Biochemistry (Moscow)</i> , 2016 , 81, 348-63	2.9	17
47	Reactive oxygen species metabolism in desiccation-stressed thalli of the liverwort <i>Dumortiera hirsuta</i> . <i>Physiologia Plantarum</i> , 2004 , 122, 3-10	4.6	16
46	Extracellular reactive oxygen species production by lichens. <i>Lichenologist</i> , 2005 , 37, 397-407	1.1	15

45	Wounding induces a burst of extracellular superoxide production in <i>Peltigera canina</i> . <i>Lichenologist</i> , 2003 , 35, 87-89	1.1	14
44	Hydrogen Sulfide Ameliorates Developmental Impairments of Rat Offspring with Prenatal Hyperhomocysteinemia. <i>Oxidative Medicine and Cellular Longevity</i> , 2018 , 2018, 2746873	6.7	14
43	On the occurrence of peroxidase and laccase activity in lichens. <i>Lichenologist</i> , 2013 , 45, 277-283	1.1	13
42	Membrane sterols and genes of sterol biosynthesis are involved in the response of <i>Triticum aestivum</i> seedlings to cold stress. <i>Plant Physiology and Biochemistry</i> , 2019 , 142, 452-459	5.4	12
41	Nitrate reductase from <i>Triticum aestivum</i> leaves: regulation of activity and possible role in production of nitric oxide. <i>Biochemistry (Moscow)</i> , 2012 , 77, 404-10	2.9	12
40	Effects of sterol-binding agent nystatin on wheat roots: the changes in membrane permeability, sterols and glycosphingolipids. <i>Phytochemistry</i> , 2011 , 72, 1751-9	4	11
39	Occurrence and possible roles of melanic pigments in lichenized ascomycetes. <i>Fungal Biology Reviews</i> , 2019 , 33, 159-165	6.8	11
38	Photoprotection in lichens: adaptations of photobionts to high light. <i>Lichenologist</i> , 2021 , 53, 21-33	1.1	11
37	Sterol binding by methyl-β-cyclodextrin and nystatin--comparative analysis of biochemical and physiological consequences for plants. <i>FEBS Journal</i> , 2014 , 281, 2051-60	5.7	10
36	Role of laccases and peroxidases in saprotrophic activities in the lichen <i>Usnea undulata</i> . <i>Fungal Ecology</i> , 2015 , 14, 71-78	4.1	10
35	Occurrence of high tyrosinase activity in the non-Peltigeralean lichen <i>Dermatocarpon miniatum</i> (L.) W. Mann. <i>Lichenologist</i> , 2012 , 44, 827-832	1.1	10
34	Extracellular redox cycling and hydroxyl radical production occurs widely in lichenized Ascomycetes. <i>Fungal Biology</i> , 2017 , 121, 582-588	2.8	9
33	Heat production of root cells upon the dissipation of ion gradients on plasma membrane. <i>Thermochimica Acta</i> , 1998 , 309, 139-143	2.9	9
32	Effect of exogenous phenols on superoxide production by extracellular peroxidase from wheat seedling roots. <i>Biochemistry (Moscow)</i> , 2009 , 74, 766-74	2.9	8
31	Superoxide production as a stress response of wounded root cells: ESR spin-trap and acceptor methods. <i>Applied Magnetic Resonance</i> , 2001 , 21, 63-70	0.8	8
30	Characterization and role of tyrosinases in the lichen <i>Lobaria pulmonaria</i> (L.) Hoffm.. <i>Lichenologist</i> , 2016 , 48, 311-322	1.1	8
29	Methodological approaches for studying apoplastic redox activity: 2. Regulation of peroxidase activity. <i>Russian Journal of Plant Physiology</i> , 2014 , 61, 626-633	1.6	6
28	Hydration in the dark can induce laccase and peroxidase activity in Peltigeralean and non-Peltigeralean lichens. <i>Lichenologist</i> , 2014 , 46, 589-593	1.1	6

27	Binding of sterols affects membrane functioning and sphingolipid composition in wheat roots. <i>Biochemistry (Moscow)</i> , 2010 , 75, 554-61	2.9	6
26	Patterns of heat production during desiccation and rehydration in lichens differing in desiccation tolerance. <i>Lichenologist</i> , 2011 , 43, 178-183	1.1	6
25	Rapid breakdown of exogenous extracellular hydrogen peroxide by lichens. <i>Physiologia Plantarum</i> , 2007 , 129, 588-596	4.6	6
24	Structural and functional changes in root cells induced by calcium ionophore A23187. <i>Plant and Soil</i> , 2000 , 219, 169-175	4.2	6
23	The homoeologous genes encoding C24-sterol methyltransferase 1 in <i>Triticum aestivum</i> : structural characteristics and effects of cold stress. <i>Biologia Plantarum</i> , 2019 , 63, 59-69	2.1	6
22	Tolerance to photoinhibition within lichen species is higher in melanised thalli. <i>Photosynthetica</i> , 2019 , 57, 96-102	2.2	6
21	Melanin from the Lichens <i>Cetraria islandica</i> and <i>Pseudevernia furfuracea</i> : Structural Features and Physicochemical Properties. <i>Biochemistry (Moscow)</i> , 2020 , 85, 623-628	2.9	5
20	Mitochondrial morphology and dynamics in <i>Triticum aestivum</i> roots in response to rotenone and antimycin A. <i>Protoplasma</i> , 2016 , 253, 1299-308	3.4	5
19	Methodological approaches for studying apoplastic redox activity: 1. Mechanisms of peroxidase release. <i>Russian Journal of Plant Physiology</i> , 2014 , 61, 556-563	1.6	5
18	Biochemical characterization of peroxidases from the moss <i>Dicranum scoparium</i> . <i>South African Journal of Botany</i> , 2018 , 119, 132-141	2.9	5
17	Improved photoprotection in melanized lichens is a result of fungal solar radiation screening rather than photobiont acclimation. <i>Lichenologist</i> , 2019 , 51, 483-491	1.1	4
16	Stress-induced changes in membrane sterols in wheat roots. <i>Doklady Biochemistry and Biophysics</i> , 2014 , 455, 53-5	0.8	4
15	The influence of ascorbic acid on the oxygen consumption and the heat production by the cells of wheat seedling roots with their mitochondrial electron transport chain inhibited at complexes I and III. <i>Thermochimica Acta</i> , 2007 , 458, 92-96	2.9	4
14	Spermine Induces Autophagy in Plants: Possible Role of NO and Reactive Oxygen Species. <i>Doklady Biochemistry and Biophysics</i> , 2018 , 483, 341-343	0.8	4
13	Effect of respiratory inhibitors on mitochondrial complexes and ADP/ATP translocators in the <i>Triticum aestivum</i> roots. <i>Plant Physiology and Biochemistry</i> , 2020 , 151, 601-607	5.4	3
12	Autophagic proteins ATG4 and ATG8 in wheat: Structural characteristics and their role under stress conditions. <i>Doklady Biochemistry and Biophysics</i> , 2014 , 458, 179-81	0.8	3
11	Activation of extracellular peroxidase of wheat roots under the action of xenobiotics. <i>Applied Biochemistry and Microbiology</i> , 2010 , 46, 431-437	1.1	3
10	Desiccation Tolerance in Lichens 91-114		3

9	Direct and indirect calorimetric studies of stress responses of chlorella cells to infection with the mycoplasma, <i>Acholeplasma laidlawii</i> . <i>Thermochimica Acta</i> , 2002 , 390, 39-46	2.9	3
8	Shade lichens are characterized by rapid relaxation of non-photochemical quenching on transition to darkness. <i>Lichenologist</i> , 2021 , 53, 409-414	1.1	2
7	Quinone reductase activity is widespread in lichens. <i>Lichenologist</i> , 2021 , 53, 265-269	1.1	2
6	Activity of Redox Enzymes in the Thallus of <i>Anthoceros natalensis</i> . <i>Biochemistry (Moscow)</i> , 2015 , 80, 1157-68	1.1	1
5	Induction of desiccation tolerance mechanisms occurs in both the fast-drying filmy fern <i>Crepidomanes inopinatum</i> and the slow-drying fern <i>Loxogramme abyssinica</i> . <i>South African Journal of Botany</i> , 2020 , 131, 131-137	2.9	1
4	The Roles of Plant Peroxidases in the Metabolism of Reactive Nitrogen Species and Other Nitrogenous Compounds. <i>Signaling and Communication in Plants</i> , 2015 , 43-62	1	1
3	Ascorbate Peroxidase of Moss <i>Dicranum scoparium</i> : Gene Identification and Enzyme Activity. <i>Doklady Biochemistry and Biophysics</i> , 2019 , 489, 380-384	0.8	1
2	Characterization of the homeologous genes of C24-sterol methyltransferase in <i>Triticum aestivum</i> L. <i>Doklady Biochemistry and Biophysics</i> , 2016 , 470, 357-360	0.8	
1	Role of quinone reductases in extracellular redox cycling in lichenized ascomycetes. <i>Fungal Biology</i> , 2021 , 125, 879-885	2.8	