Farida V Minibayeva

List of Publications by Year in Descending Order

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	Shade lichens are characterized by rapid relaxation of non-photochemical quenching on transition to darkness. *Lichenologist*, **2021**, 53, 409-414	1.1	2
79	Quinone reductase activity is widespread in lichens. *Lichenologist*, **2021**, 53, 265-269	1.1	2
78	Role of quinone reductases in extracellular redox cycling in lichenized ascomycetes. *Fungal Biology*, **2021**, 125, 879-885	2.8	
77	Photoprotection in lichens: adaptations of photobionts to high light. *Lichenologist*, **2021**, 53, 21-33	1.1	11
76	Melanin from the Lichens Cetraria islandica and Pseudevernia furfuracea: Structural Features and Physicochemical Properties. *Biochemistry (Moscow)*, **2020**, 85, 623-628	2.9	5
75	Induction of desiccation tolerance mechanisms occurs in both the fast-drying filmy fern Crepidomanes inopinatum and the slow-drying fern Loxogramme abyssinica. *South African Journal of Botany*, **2020**, 131, 131-137	2.9	1
74	Effect of respiratory inhibitors on mitochondrial complexes and ADP/ATP translocators in the Triticum aestivum roots. *Plant Physiology and Biochemistry*, **2020**, 151, 601-607	5.4	3
73	Membrane sterols and genes of sterol biosynthesis are involved in the response of Triticum aestivum seedlings to cold stress. *Plant Physiology and Biochemistry*, **2019**, 142, 452-459	5.4	12
72	Improved photoprotection in melanized lichens is a result of fungal solar radiation screening rather than photobiont acclimation. *Lichenologist*, **2019**, 51, 483-491	1.1	4
71	The homoeologous genes encoding C24-sterol methyltransferase 1 in Triticum aestivum: structural characteristics and effects of cold stress. *Biologia Plantarum*, **2019**, 63, 59-69	2.1	6
70	Tolerance to photoinhibition within lichen species is higher in melanised thalli. *Photosynthetica*, **2019**, 57, 96-102	2.2	6
69	Ascorbate Peroxidase of Moss Dicranum scoparium: Gene Identification and Enzyme Activity. *Doklady Biochemistry and Biophysics*, **2019**, 489, 380-384	0.8	1
68	Occurrence and possible roles of melanic pigments in lichenized ascomycetes. *Fungal Biology Reviews*, **2019**, 33, 159-165	6.8	11
67	Hydrogen Sulfide Ameliorates Developmental Impairments of Rat Offspring with Prenatal Hyperhomocysteinemia. *Oxidative Medicine and Cellular Longevity*, **2018**, 2018, 2746873	6.7	14
66	Spermine Induces Autophagy in Plants: Possible Role of NO and Reactive Oxygen Species. *Doklady Biochemistry and Biophysics*, **2018**, 483, 341-343	0.8	4
65	Biochemical characterization of peroxidases from the moss Dicranum scoparium. *South African Journal of Botany*, **2018**, 119, 132-141	2.9	5
64	Extracellular redox cycling and hydroxyl radical production occurs widely in lichenized Ascomycetes. *Fungal Biology*, **2017**, 121, 582-588	2.8	9

63	Plant Sterols: Diversity, Biosynthesis, and Physiological Functions. *Biochemistry (Moscow)*, **2016**, 81, 819-34	2.9	87
62	Characterization of the homeologous genes of C24-sterol methyltransferase in Triticum aestivum L. *Doklady Biochemistry and Biophysics*, **2016**, 470, 357-360	0.8	
61	Molecular Mechanisms of Autophagy in Plants: Role of ATG8 Proteins in Formation and Functioning of Autophagosomes. *Biochemistry (Moscow)*, **2016**, 81, 348-63	2.9	17
60	Guidelines for the use and interpretation of assays for monitoring autophagy (3rd edition). *Autophagy*, **2016**, 12, 1-222	10.2	3838
59	Mitochondrial morphology and dynamics in Triticum aestivum roots in response to rotenone and antimycin A. *Protoplasma*, **2016**, 253, 1299-308	3.4	5
58	Characterization and role of tyrosinases in the lichen Lobaria pulmonaria (L.) Hoffm.. *Lichenologist*, **2016**, 48, 311-322	1.1	8
57	A proposed interplay between peroxidase, amine oxidase and lipoxygenase in the wounding-induced oxidative burst in Pisum sativum seedlings. *Phytochemistry*, **2015**, 112, 130-8	4	28
56	Activity of Redox Enzymes in the Thallus of Anthoceros natalensis. *Biochemistry (Moscow)*, **2015**, 80, 1157-68	2.9	1
55	Roles of apoplastic peroxidases in plant response to wounding. *Phytochemistry*, **2015**, 112, 122-9	4	52
54	Role of laccases and peroxidases in saprotrophic activities in the lichen Usnea undulata. *Fungal Ecology*, **2015**, 14, 71-78	4.1	10
53	The Roles of Plant Peroxidases in the Metabolism of Reactive Nitrogen Species and Other Nitrogenous Compounds. *Signaling and Communication in Plants*, **2015**, 43-62	1	1
52	Sterol binding by methyl-□cyclodextrin and nystatin--comparative analysis of biochemical and physiological consequences for plants. *FEBS Journal*, **2014**, 281, 2051-60	5.7	10
51	Methodological approaches for studying apoplastic redox activity: 1. Mechanisms of peroxidase release. *Russian Journal of Plant Physiology*, **2014**, 61, 556-563	1.6	5
50	Methodological approaches for studying apoplastic redox activity: 2. Regulation of peroxidase activity. *Russian Journal of Plant Physiology*, **2014**, 61, 626-633	1.6	6
49	Stress-induced changes in membrane sterols in wheat roots. *Doklady Biochemistry and Biophysics*, **2014**, 455, 53-5	0.8	4
48	Autophagic proteins ATG4 and ATG8 in wheat: Structural characteristics and their role under stress conditions. *Doklady Biochemistry and Biophysics*, **2014**, 458, 179-81	0.8	3
47	Hydration in the dark can induce laccase and peroxidase activity in Peltigeralean and non-Peltigeralean lichens. *Lichenologist*, **2014**, 46, 589-593	1.1	6
46	On the occurrence of peroxidase and laccase activity in lichens. *Lichenologist*, **2013**, 45, 277-283	1.1	13

45	Oxidative stress-induced autophagy in plants: the role of mitochondria. *Plant Physiology and Biochemistry*, **2012**, 59, 11-9	5.4	83
44	Occurrence of high tyrosinase activity in the non-Peltigeralean lichen Dermatocarponminiatum (L.) W. Mann. *Lichenologist*, **2012**, 44, 827-832	1.1	10
43	Nitrate reductase from Triticum aestivum leaves: regulation of activity and possible role in production of nitric oxide. *Biochemistry (Moscow)*, **2012**, 77, 404-10	2.9	12
42	A heme peroxidase of the ascomyceteous lichen Leptogium saturninum oxidizes high-redox potential substrates. *Fungal Genetics and Biology*, **2011**, 48, 1139-45	3.9	33
41	Effects of sterol-binding agent nystatin on wheat roots: the changes in membrane permeability, sterols and glycoceramides. *Phytochemistry*, **2011**, 72, 1751-9	4	11
40	Patterns of heat production during desiccation and rehydration in lichens differing in desiccation tolerance. *Lichenologist*, **2011**, 43, 178-183	1.1	6
39	What is stress? Concepts, definitions and applications in seed science. *New Phytologist*, **2010**, 188, 655-73	9.8	287
38	Cell wall peroxidases in the liverwort Dumortiera hirsuta are responsible for extracellular superoxide production, and can display tyrosinase activity. *Physiologia Plantarum*, **2010**, 138, 474-84	4.6	23
37	Activation of extracellular peroxidase of wheat roots under the action of xenobiotics. *Applied Biochemistry and Microbiology*, **2010**, 46, 431-437	1.1	3
36	Binding of sterols affects membrane functioning and sphingolipid composition in wheat roots. *Biochemistry (Moscow)*, **2010**, 75, 554-61	2.9	6
35	Extracellular production of reactive oxygen species during seed germination and early seedling growth in Pisum sativum. *Journal of Plant Physiology*, **2010**, 167, 805-11	3.6	114
34	Extracellular superoxide production, viability and redox poise in response to desiccation in recalcitrant Castanea sativa seeds. *Plant, Cell and Environment*, **2010**, 33, 59-75	8.4	72
33	Production of reactive oxygen species in excised, desiccated and cryopreserved explants of Trichilia dregeana Sond. *South African Journal of Botany*, **2010**, 76, 112-118	2.9	37
32	Alleviation of dormancy by reactive oxygen species in Bidens pilosa L. seeds. *South African Journal of Botany*, **2010**, 76, 601-605	2.9	18
31	Wound-induced apoplastic peroxidase activities: their roles in the production and detoxification of reactive oxygen species. *Plant, Cell and Environment*, **2009**, 32, 497-508	8.4	113
30	Effect of exogenous phenols on superoxide production by extracellular peroxidase from wheat seedling roots. *Biochemistry (Moscow)*, **2009**, 74, 766-74	2.9	8
29	Diversity of laccases from lichens in suborder Peltigerineae. *Bryologist*, **2009**, 112, 418-426	0.7	24
28	An oxidative burst of superoxide in embryonic axes of recalcitrant sweet chestnut seeds as induced by excision and desiccation. *Physiologia Plantarum*, **2008**, 133, 131-9	4.6	62

27	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. *Thermochimica Acta*, **2007**, 458, 92-96	2.9	4
26	Rapid breakdown of exogenous extracellular hydrogen peroxide by lichens. *Physiologia Plantarum*, **2007**, 129, 588-596	4.6	6
25	Occurrence of laccases in lichenized ascomycetes of the Peltigerineae. *Mycological Research*, **2006**, 110, 846-53		28
24	Co-occurrence of the multicopper oxidases tyrosinase and laccase in lichens in sub-order peltigerineae. *Annals of Botany*, **2006**, 98, 1035-42	4.1	37
23	Extracellular reactive oxygen species production by lichens. *Lichenologist*, **2005**, 37, 397-407	1.1	15
22	Hardening by partial dehydration and ABA increase desiccation tolerance in the cyanobacterial lichen Peltigera polydactylon. *Annals of Botany*, **2005**, 96, 109-15	4.1	25
21	Reactive oxygen species metabolism in desiccation-stressed thalli of the liverwort Dumortiera hirsuta. *Physiologia Plantarum*, **2004**, 122, 3-10	4.6	16
20	Possible functions of extracellular peroxidases in stress-induced generation and detoxification of active oxygen species. *Phytochemistry Reviews*, **2004**, 3, 173-193	7.7	87
19	Heat production of wheat roots induced by the disruption of proton gradient by salicylic acid. *Thermochimica Acta*, **2004**, 422, 101-104	2.9	19
18	Wounding induces a burst of extracellular superoxide production in Peltigera canina. *Lichenologist*, **2003**, 35, 87-89	1.1	14
17	Salicylic acid changes the properties of extracellular peroxidase activity secreted from wounded wheat (Triticum aestivum L.) roots. *Protoplasma*, **2003**, 221, 67-72	3.4	18
16	High rates of extracellular superoxide production by lichens in the suborder Peltigerineae correlate with indices of high metabolic activity. *Plant, Cell and Environment*, **2003**, 26, 1827-1837	8.4	30
15	Direct and indirect calorimetric studies of stress responses of chlorella cells to infection with the mycoplasma, Acholeplasma laidlawii. *Thermochimica Acta*, **2002**, 390, 39-46	2.9	3
14	An oxidative burst of hydrogen peroxide during rehydration following desiccation in the moss Atrichum androgynum. *New Phytologist*, **2002**, 155, 275-283	9.8	31
13	The apoplastic oxidative burst in response to biotic stress in plants: a three-component system. *Journal of Experimental Botany*, **2002**, 53, 1367-1376	7	426
12	The apoplastic oxidative burst in response to biotic stress in plants: a three-component system. *Journal of Experimental Botany*, **2002**, 53, 1367-1376	7	305
11	The apoplastic oxidative burst in response to biotic stress in plants: a three-component system. *Journal of Experimental Botany*, **2002**, 53, 1367-76	7	262
10	Role of extracellular peroxidase in the superoxide production by wheat root cells. *Protoplasma*, **2001**, 217, 125-8	3.4	61

9	Superoxide production as a stress response of wounded root cells: ESR spin-trap and acceptor methods. *Applied Magnetic Resonance*, **2001**, 21, 63-70	0.8	8
8	Early signalling events in the apoplastic oxidative burst in suspension cultured French bean cells involve cAMP and Ca. *New Phytologist*, **2001**, 151, 185-194	9.8	121
7	High rates of extracellular superoxide production in bryophytes and lichens, and an oxidative burst in response to rehydration following desiccation. *New Phytologist*, **2001**, 152, 333-341	9.8	45
6	Structural and functional changes in root cells induced by calcium ionophore A23187. *Plant and Soil*, **2000**, 219, 169-175	4.2	6
5	Recent advances in understanding the origin of the apoplastic oxidative burst in plant cells. *Free Radical Research*, **1999**, 31 Suppl, S137-45	4	83
4	Contribution of a plasma membrane redox system to the superoxide production by wheat root cells. *Protoplasma*, **1998**, 205, 101-106	3.4	29
3	Heat production of root cells upon the dissipation of ion gradients on plasma membrane. *Thermochimica Acta*, **1998**, 309, 139-143	2.9	9
2	Stress physiology and the symbiosis134-151		31
1	Desiccation Tolerance in Lichens91-114		3