

Ana Rita Matos

List of Publications by Year in descending order

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Version: 2024-02-01

54
papers

1,399
citations

361388
20
h-index

361001
35
g-index

55
all docs

55
docs citations

55
times ranked

1383
citing authors

#	ARTICLE	IF	CITATIONS
1	Patatin-related phospholipase A: nomenclature, subfamilies and functions in plants. <i>Trends in Plant Science</i> , 2010, 15, 693-700.	8.8	145
2	A novel patatin-like gene stimulated by drought stress encodes a galactolipid acyl hydrolase. <i>FEBS Letters</i> , 2001, 491, 188-192.	2.8	105
3	Lipid deacylating enzymes in plants: Old activities, new genes. <i>Plant Physiology and Biochemistry</i> , 2009, 47, 491-503.	5.8	71
4	Response of the Diatom <i>Phaeodactylum tricornutum</i> to Photooxidative Stress Resulting from High Light Exposure. <i>PLoS ONE</i> , 2012, 7, e38162.	2.5	65
5	Alternative Oxidase Involvement in Cold Stress Response of <i>Arabidopsis thaliana</i> fad2 and FAD3+ Cell Suspensions Altered in Membrane Lipid Composition. <i>Plant and Cell Physiology</i> , 2007, 48, 856-865.	3.1	61
6	The plant uncoupling protein homologues: a new family of energy-dissipating proteins in plant mitochondria. <i>Plant Physiology and Biochemistry</i> , 2004, 42, 283-290.	5.8	58
7	Heat wave impacts on the model diatom <i>Phaeodactylum tricornutum</i> : Searching for photochemical and fatty acid biomarkers of thermal stress. <i>Ecological Indicators</i> , 2018, 95, 1026-1037.	6.3	51
8	Effects of progressive drought stress on the expression of patatin-like lipid acyl hydrolase genes in <i>Arabidopsis</i> leaves. <i>Physiologia Plantarum</i> , 2008, 134, 110-120.	5.2	45
9	The interplay between membrane lipids and phospholipase A family members in grapevine resistance against <i>Plasmopara viticola</i> . <i>Scientific Reports</i> , 2018, 8, 14538.	3.3	42
10	Specific adjustments in grapevine leaf proteome discriminating resistant and susceptible grapevine genotypes to <i>Plasmopara viticola</i> . <i>Journal of Proteomics</i> , 2017, 152, 48-57.	2.4	41
11	Halophyte fatty acids as biomarkers of anthropogenic-driven contamination in Mediterranean marshes: Sentinel species survey and development of an integrated biomarker response (IBR) index. <i>Ecological Indicators</i> , 2018, 87, 86-96.	6.3	41
12	Ectomycorrhizal inoculation with <i>Pisolithus tinctorius</i> reduces stress induced by drought in cork oak. <i>Mycorrhiza</i> , 2018, 28, 247-258.	2.8	40
13	Ecotoxicity of the lipid-lowering drug bezafibrate on the bioenergetics and lipid metabolism of the diatom <i>Phaeodactylum tricornutum</i> . <i>Science of the Total Environment</i> , 2019, 650, 2085-2094.	8.0	37
14	Fluoxetine Arrests Growth of the Model Diatom <i>Phaeodactylum tricornutum</i> by Increasing Oxidative Stress and Altering Energetic and Lipid Metabolism. <i>Frontiers in Microbiology</i> , 2020, 11, 1803.	3.5	37
15	First screening of biocides, persistent organic pollutants, pharmaceutical and personal care products in Antarctic phytoplankton from Deception Island by FT-ICR-MS. <i>Chemosphere</i> , 2021, 274, 129860.	8.2	34
16	Study of the effects of salicylic acid on soybean mitochondrial lipids and respiratory properties using the alternative oxidase as a stress-reporter protein. <i>Physiologia Plantarum</i> , 2009, 137, 485-497.	5.2	31
17	The leaf lipid composition of ectomycorrhizal oak plants shows a drought-tolerance signature. <i>Plant Physiology and Biochemistry</i> , 2019, 144, 157-165.	5.8	29
18	<i>Vitis vinifera</i> "Pinot noir" leaves as a source of bioactive nutraceutical compounds. <i>Food and Function</i> , 2019, 10, 3822-3827.	4.6	28

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19	Pigment and Fatty Acid Production under Different Light Qualities in the Diatom <i>Phaeodactylum tricornutum</i> . <i>Applied Sciences (Switzerland)</i> , 2021, 11, 2550.	2.5	26
20	Leaf fatty acid remodeling in the salt-excreting halophytic grass <i>Spartina patens</i> along a salinity gradient. <i>Plant Physiology and Biochemistry</i> , 2018, 124, 112-116.	5.8	22
21	Preliminary diversity assessment of an undervalued tropical bean (<i>Lablab purpureus</i> (L.) Sweet) through fatty acid profiling. <i>Plant Physiology and Biochemistry</i> , 2018, 132, 508-514.	5.8	21
22	Investigating the physiological mechanisms underlying <i>Salicornia ramosissima</i> response to atmospheric CO ₂ enrichment under coexistence of prolonged soil flooding and saline excess. <i>Plant Physiology and Biochemistry</i> , 2019, 135, 149-159.	5.8	21
23	Cloning and characterization of drought-stimulated phosphatidic acid phosphatase genes from <i>Vigna unguiculata</i> . <i>Plant Physiology and Biochemistry</i> , 2008, 46, 1093-1100.	5.8	20
24	Speaking the language of lipids: the cross-talk between plants and pathogens in defence and disease. <i>Cellular and Molecular Life Sciences</i> , 2021, 78, 4399-4415.	5.4	20
25	Phytoplankton community-level bio-optical assessment in a naturally mercury contaminated Antarctic ecosystem (Deception Island). <i>Marine Environmental Research</i> , 2018, 140, 412-421.	2.5	19
26	Effects of Propranolol on Growth, Lipids and Energy Metabolism and Oxidative Stress Response of <i>Phaeodactylum tricornutum</i> . <i>Biology</i> , 2020, 9, 478.	2.8	18
27	Photobiological and lipidic responses reveal the drought tolerance of <i>Aster tripolium</i> cultivated under severe and moderate drought: Perspectives for arid agriculture in the mediterranean. <i>Plant Physiology and Biochemistry</i> , 2020, 154, 304-315.	5.8	18
28	An apoplastic fluid extraction method for the characterization of grapevine leaves proteome and metabolome from a single sample. <i>Physiologia Plantarum</i> , 2021, 171, 343-357.	5.2	18
29	The effect of heavy metal contamination pre-conditioning in the heat stress tolerance of native and invasive Mediterranean halophytes. <i>Ecological Indicators</i> , 2020, 111, 106045.	6.3	17
30	Comfortably numb: Ecotoxicity of the non-steroidal anti-inflammatory drug ibuprofen on <i>Phaeodactylum tricornutum</i> . <i>Marine Environmental Research</i> , 2020, 161, 105109.	2.5	17
31	Fatty acid profiles as natural tracers of provenance and lipid quality indicators in illegally sourced fish and bivalves. <i>Food Control</i> , 2022, 134, 108735.	5.5	17
32	Glyphosate-Based Herbicide Toxicophenomics in Marine Diatoms: Impacts on Primary Production and Physiological Fitness. <i>Applied Sciences (Switzerland)</i> , 2020, 10, 7391.	2.5	16
33	Fatty Acid Desaturases: Uncovering Their Involvement in Grapevine Defence against Downy Mildew. <i>International Journal of Molecular Sciences</i> , 2021, 22, 5473.	4.1	16
34	Fatty acid profiles of estuarine macroalgae are biomarkers of anthropogenic pressures: Development and application of a multivariate pressure index. <i>Science of the Total Environment</i> , 2021, 788, 147817.	8.0	15
35	Nutritional valuation and food safety of endemic mediterranean halophytes species cultivated in abandoned salt pans under a natural irrigation scheme. <i>Estuarine, Coastal and Shelf Science</i> , 2022, 265, 107733.	2.1	15
36	Comparing Machine Learning Methods for Classifying Plant Drought Stress from Leaf Reflectance Spectra in <i>Arabidopsis thaliana</i> . <i>Applied Sciences (Switzerland)</i> , 2021, 11, 6392.	2.5	12

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37	Lipid landscape remodelling in <i>Sarcocornia fruticosa</i> green and red phenotypes. <i>Plant Physiology and Biochemistry</i> , 2020, 157, 128-137.	5.8	11
38	Marine heat waves alter gene expression of key enzymes of membrane and storage lipids metabolism in <i>Phaeodactylum tricornutum</i> . <i>Plant Physiology and Biochemistry</i> , 2020, 156, 357-368.	5.8	11
39	Toxicity Going Nano: Ionic Versus Engineered Cu Nanoparticles Impacts on the Physiological Fitness of the Model Diatom <i>Phaeodactylum tricornutum</i> . <i>Frontiers in Marine Science</i> , 2020, 7, .	2.5	10
40	A multivariate approach to chlorophyll a fluorescence data for trace element ecotoxicological trials using a model marine diatom. <i>Estuarine, Coastal and Shelf Science</i> , 2021, 250, 107170.	2.1	9
41	Membrane remodelling and triacylglycerol accumulation in drought stress resistance: The case study of soybean phospholipases A. <i>Plant Physiology and Biochemistry</i> , 2021, 169, 9-21.	5.8	9
42	Dwarf eelgrass (<i>Zostera noltii</i>) leaf fatty acid profile during a natural restoration process: Physiological and ecological implications. <i>Ecological Indicators</i> , 2019, 106, 105452.	6.3	8
43	More than Just Wine: The Nutritional Benefits of Grapevine Leaves. <i>Foods</i> , 2021, 10, 2251.	4.3	7
44	Dwarf eelgrass (<i>Zostera noltii</i>) fatty acid remodelling induced by climate change. <i>Estuarine, Coastal and Shelf Science</i> , 2021, 261, 107546.	2.1	7
45	Impacts of dissolved Zn and nanoparticle forms in the fatty acid landscape of <i>Mytilus galloprovincialis</i> . <i>Science of the Total Environment</i> , 2022, 817, 152807.	8.0	7
46	Fatty acid modulation and desaturase gene expression are differentially triggered in grapevine incompatible interaction with biotrophs and necrotrophs. <i>Plant Physiology and Biochemistry</i> , 2021, 163, 230-238.	5.8	6
47	Potential of <i>Asparagopsis armata</i> as a Biopesticide for Weed Control under an Invasive Seaweed Circular-Economy Framework. <i>Biology</i> , 2021, 10, 1321.	2.8	6
48	Heavy Metal Pre-Conditioning History Modulates <i>Spartina patens</i> Physiological Tolerance along a Salinity Gradient. <i>Plants</i> , 2021, 10, 2072.	3.5	5
49	Exploring Local Maize Diversity for Increased Agricultural Sustainability: New Insights into Drought Stress Response and Recovery of Guinea-Bissau Landraces. <i>Sustainability</i> , 2021, 13, 5441.	3.2	3
50	LipidTOX: A fatty acid-based index efficient for ecotoxicological studies with marine model diatoms exposed to legacy and emerging contaminants. <i>Ecological Indicators</i> , 2022, 139, 108885.	6.3	3
51	Ocean Acidification Alleviates Dwarf Eelgrass (<i>Zostera noltii</i>) Lipid Landscape Remodeling under Warming Stress. <i>Biology</i> , 2022, 11, 780.	2.8	3
52	Genetically Modified <i>Arabidopsis thaliana</i> Cells Reveal the Involvement of the Mitochondrial Fatty Acid Composition in Membrane Basal and Uncoupling Protein-Mediated Proton Leaks. <i>Plant and Cell Physiology</i> , 2009, 50, 2084-2091.	3.1	2
53	Fatty acid-based index development in estuarine organisms to pinpoint environmental contamination. <i>Marine Pollution Bulletin</i> , 2022, 180, 113805.	5.0	2
54	Ecoengineering Solutions for the Impairment of Spreading and Growth of Invasive <i>Spartina patens</i> in Mediterranean Salt Marshes. <i>Frontiers in Marine Science</i> , 2021, 8, .	2.5	0