Ana Rita Matos

List of Publications by Year in descending order

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#	Article	IF	CITATIONS
1	Patatin-related phospholipase A: nomenclature, subfamilies and functions in plants. Trends in Plant Science, 2010, 15, 693-700.	8.8	145
2	A novel patatin-like gene stimulated by drought stress encodes a galactolipid acyl hydrolase. FEBS Letters, 2001, 491, 188-192.	2.8	105
3	Lipid deacylating enzymes in plants: Old activities, new genes. Plant Physiology and Biochemistry, 2009, 47, 491-503.	5.8	71
4	Response of the Diatom Phaeodactylum tricornutum to Photooxidative Stress Resulting from High Light Exposure. PLoS ONE, 2012, 7, e38162.	2.5	65
5	Alternative Oxidase Involvement in Cold Stress Response of Arabidopsis thaliana fad2 and FAD3+ Cell Suspensions Altered in Membrane Lipid Composition. Plant and Cell Physiology, 2007, 48, 856-865.	3.1	61
6	The plant uncoupling protein homologues: a new family of energy-dissipating proteins in plant mitochondria. Plant Physiology and Biochemistry, 2004, 42, 283-290.	5.8	58
7	Heat wave impacts on the model diatom Phaeodactylum tricornutum: Searching for photochemical and fatty acid biomarkers of thermal stress. Ecological Indicators, 2018, 95, 1026-1037.	6.3	51
8	Effects of progressive drought stress on the expression of patatinâ€like lipid acyl hydrolase genes in Arabidopsis leaves. Physiologia Plantarum, 2008, 134, 110-120.	5.2	45
9	The interplay between membrane lipids and phospholipase A family members in grapevine resistance against Plasmopara viticola. Scientific Reports, 2018, 8, 14538.	3.3	42
10	Specific adjustments in grapevine leaf proteome discriminating resistant and susceptible grapevine genotypes to Plasmopara viticola. Journal of Proteomics, 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. Ecological Indicators, 2018, 87, 86-96.	6.3	41
12	Ectomycorrhizal inoculation with Pisolithus tinctorius reduces stress induced by drought in cork oak. Mycorrhiza, 2018, 28, 247-258.	2.8	40
13	Ecotoxicity of the lipid-lowering drug bezafibrate on the bioenergetics and lipid metabolism of the diatom Phaeodactylum tricornutum. Science of the Total Environment, 2019, 650, 2085-2094.	8.0	37
14	Fluoxetine Arrests Growth of the Model Diatom Phaeodactylum tricornutum by Increasing Oxidative Stress and Altering Energetic and Lipid Metabolism. Frontiers in Microbiology, 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. Chemosphere, 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 stressâ€reporter protein. Physiologia Plantarum, 2009, 137, 485-497.	5.2	31
17	The leaf lipid composition of ectomycorrhizal oak plants shows a drought-tolerance signature. Plant Physiology and Biochemistry, 2019, 144, 157-165.	5.8	29
18	<i>Vitis vinifera</i> â€~Pinot noir' leaves as a source of bioactive nutraceutical compounds. Food and Function, 2019, 10, 3822-3827.	4.6	28

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19	Pigment and Fatty Acid Production under Different Light Qualities in the Diatom Phaeodactylum tricornutum. Applied Sciences (Switzerland), 2021, 11, 2550.	2.5	26
20	Leaf fatty acid remodeling in the salt-excreting halophytic grass Spartina patens along a salinity gradient. Plant Physiology and Biochemistry, 2018, 124, 112-116.	5.8	22
21	Preliminary diversity assessment of an undervalued tropical bean (Lablab purpureus (L.) Sweet) through fatty acid profiling. Plant Physiology and Biochemistry, 2018, 132, 508-514.	5.8	21
22	Investigating the physiological mechanisms underlying Salicornia ramosissima response to atmospheric CO2 enrichment under coexistence of prolonged soil flooding and saline excess. Plant Physiology and Biochemistry, 2019, 135, 149-159.	5.8	21
23	Cloning and characterization of drought-stimulated phosphatidic acid phosphatase genes from Vigna unguiculata. Plant Physiology and Biochemistry, 2008, 46, 1093-1100.	5.8	20
24	Speaking the language of lipids: the cross-talk between plants and pathogens in defence and disease. Cellular and Molecular Life Sciences, 2021, 78, 4399-4415.	5.4	20
25	Phytoplankton community-level bio-optical assessment in a naturally mercury contaminated Antarctic ecosystem (Deception Island). Marine Environmental Research, 2018, 140, 412-421.	2.5	19
26	Effects of Propranolol on Growth, Lipids and Energy Metabolism and Oxidative Stress Response of Phaeodactylum tricornutum. Biology, 2020, 9, 478.	2.8	18
27	Photobiological and lipidic responses reveal the drought tolerance of Aster tripolium cultivated under severe and moderate drought: Perspectives for arid agriculture in the mediterranean. Plant Physiology and Biochemistry, 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. Physiologia Plantarum, 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. Ecological Indicators, 2020, 111, 106045.	6.3	17
30	Comfortably numb: Ecotoxicity of the non-steroidal anti-inflammatory drug ibuprofen on Phaeodactylum tricornutum. Marine Environmental Research, 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. Food Control, 2022, 134, 108735.	5.5	17
32	Glyphosate-Based Herbicide Toxicophenomics in Marine Diatoms: Impacts on Primary Production and Physiological Fitness. Applied Sciences (Switzerland), 2020, 10, 7391.	2.5	16
33	Fatty Acid Desaturases: Uncovering Their Involvement in Grapevine Defence against Downy Mildew. International Journal of Molecular Sciences, 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. Science of the Total Environment, 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. Estuarine, Coastal and Shelf Science, 2022, 265, 107733.	2.1	15
36	Comparing Machine Learning Methods for Classifying Plant Drought Stress from Leaf Reflectance Spectra in Arabidopsis thaliana. Applied Sciences (Switzerland), 2021, 11, 6392.	2.5	12

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37	Lipid landscape remodelling in Sarcocornia fruticosa green and red physiotypes. Plant Physiology and Biochemistry, 2020, 157, 128-137.	5.8	11
38	Marine heat waves alter gene expression of key enzymes of membrane and storage lipids metabolism in Phaeodactylum tricornutum. Plant Physiology and Biochemistry, 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 Phaeodactylum tricornutum. Frontiers in Marine Science, 2020, 7, .	2.5	10
40	A multivariate approach to chlorophyll a fluorescence data for trace element ecotoxicological trials using a model marine diatom. Estuarine, Coastal and Shelf Science, 2021, 250, 107170.	2.1	9
41	Membrane remodelling and triacylglycerol accumulation in drought stress resistance: The case study of soybean phospholipases A. Plant Physiology and Biochemistry, 2021, 169, 9-21.	5.8	9
42	Dwarf eelgrass (Zostera noltii) leaf fatty acid profile during a natural restoration process: Physiological and ecological implications. Ecological Indicators, 2019, 106, 105452.	6.3	8
43	More than Just Wine: The Nutritional Benefits of Grapevine Leaves. Foods, 2021, 10, 2251.	4.3	7
44	Dwarf eelgrass (Zostera noltii) fatty acid remodelling induced by climate change. Estuarine, Coastal and Shelf Science, 2021, 261, 107546.	2.1	7
45	Impacts of dissolved Zn and nanoparticle forms in the fatty acid landscape of Mytilus galloprovincialis. Science of the Total Environment, 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. Plant Physiology and Biochemistry, 2021, 163, 230-238.	5.8	6
47	Potential of Asparagopsis armata as a Biopesticide for Weed Control under an Invasive Seaweed Circular-Economy Framework. Biology, 2021, 10, 1321.	2.8	6
48	Heavy Metal Pre-Conditioning History Modulates Spartina patens Physiological Tolerance along a Salinity Gradient. Plants, 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. Sustainability, 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. Ecological Indicators, 2022, 139, 108885.	6.3	3
51	Ocean Acidification Alleviates Dwarf Eelgrass (Zostera noltii) Lipid Landscape Remodeling under Warming Stress. Biology, 2022, 11, 780.	2.8	3
52	Genetically Modified Arabidopsis thaliana Cells Reveal the Involvement of the Mitochondrial Fatty Acid Composition in Membrane Basal and Uncoupling Protein-Mediated Proton Leaks. Plant and Cell Physiology, 2009, 50, 2084-2091.	3.1	2
53	Fatty acid-based index development in estuarine organisms to pinpoint environmental contamination. Marine Pollution Bulletin, 2022, 180, 113805.	5.0	2
54	Ecoengineering Solutions for the Impairment of Spreading and Growth of Invasive Spartina patens in Mediterranean Salt Marshes. Frontiers in Marine Science, 2021, 8, .	2.5	0