Marcelo Pedrosa Gomes

List of Publications by Year
in descending order

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72 papers	2,262 citations	218677 26 h-index	233421 45 g-index
73 all docs	73 docs citations	73 times ranked	2239 citing authors

#	Article	IF	Citations
1	Alteration of plant physiology by glyphosate and its by-product aminomethylphosphonic acid: an overview. Journal of Experimental Botany, 2014, 65, 4691-4703.	4.8	239
2	Reactive oxygen species and seed germination. Biologia (Poland), 2013, 68, 351-357.	1.5	138
3	Differential effects of glyphosate and aminomethylphosphonic acid (AMPA) on photosynthesis and chlorophyll metabolism in willow plants. Pesticide Biochemistry and Physiology, 2016, 130, 65-70.	3.6	135
4	Ecophysiological and anatomical changes due to uptake and accumulation of heavy metal in Brachiaria decumbens. Scientia Agricola, 2011, 68, 566-573.	1.2	127
5	Ciprofloxacin induces oxidative stress in duckweed (Lemna minor L.): Implications for energy metabolism and antibiotic-uptake ability. Journal of Hazardous Materials, 2017, 328, 140-149.	12.4	108
6	Glyphosate-Dependent Inhibition of Photosynthesis in Willow. Frontiers in Plant Science, 2017, 8, 207.	3.6	99
7	Oxidative stress in duckweed (Lemna minor L.) induced by glyphosate: Is the mitochondrial electron transport chain a target of this herbicide?. Environmental Pollution, 2016, 218, 402-409.	7.5	90
8	Veterinary antibiotics and plant physiology: An overview. Science of the Total Environment, 2021, 767, 144902.	8.0	80
9	Effects of low concentrations of glyphosate-based herbicide factor 540Â® on an agricultural stream freshwater phytoplankton community. Chemosphere, 2018, 192, 133-141.	8.2	67
10	Impact of phosphate on glyphosate uptake and toxicity in willow. Journal of Hazardous Materials, 2016, 304, 269-279.	12.4	58
11	Zinc tolerance modulation in Myracrodruon urundeuva plants. Plant Physiology and Biochemistry, 2013, 67, 1-6.	5.8	51
12	Phosphorus Improves Arsenic Phytoremediation byAnadenanthera Peregrinaby Alleviating Induced Oxidative Stress. International Journal of Phytoremediation, 2013, 15, 633-646.	3.1	48
13	Cadmium effects on mineral nutrition of the Cd-hyperaccumulator Pfaffia glomerata. Biologia (Poland), 2013, 68, 223-230.	1.5	47
14	Phosphorous and sulfur nutrition modulate antioxidant defenses in Myracrodruom urundeuva plants exposed to arsenic. Journal of Hazardous Materials, 2014, 276, 97-104.	12.4	46
15	Effects of glyphosate acid and the glyphosate-commercial formulation (Roundup) on Dimorphandra wilsonii seed germination: Interference of seed respiratory metabolism. Environmental Pollution, 2017, 220, 452-459.	7.5	45
16	Individual and combined effects of amoxicillin, enrofloxacin, and oxytetracycline on Lemna minor physiology. Ecotoxicology and Environmental Safety, 2020, 203, 111025.	6.0	44
17	Effects of Ciprofloxacin and Roundup on seed germination and root development of maize. Science of the Total Environment, 2019, 651, 2671-2678.	8.0	40
18	Temperature and Light Modulation of Herbicide Toxicity on Algal and Cyanobacterial Physiology. Frontiers in Environmental Science, 2017, 5, .	3.3	37

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19	Enrofloxacin and RoundupÂ® interactive effects on the aquatic macrophyte Elodea canadensis physiology. Environmental Pollution, 2019, 249, 453-462.	7.5	37
20	Crop irrigation (soybean, bean, and corn) with enrofloxacin-contaminated water leads to yield reductions and antibiotic accumulation. Ecotoxicology and Environmental Safety, 2021, 216, 112193.	6.0	37
21	Aquatic Macrophytes in Constructed Wetlands: A Fight against Water Pollution. Sustainability, 2020, 12, 9202.	3.2	36
22	Emerging contaminants in water used for maize irrigation: Economic and food safety losses associated with ciprofloxacin and glyphosate. Ecotoxicology and Environmental Safety, 2020, 196, 110549.	6.0	35
23	Responses of the nitrogen-fixing aquatic fern Azolla to water contaminated with ciprofloxacin: Impacts on biofertilization. Environmental Pollution, 2018, 232, 293-299.	7.5	34
24	The system modulating ROS content in germinating seeds of two Brazilian savanna tree species exposed to As and Zn. Acta Physiologiae Plantarum, 2013, 35, 1011-1022.	2.1	32
25	Herbaceous or Salix miyabeana â€˜SX64â€™ narrow buffer strips as a means to minimize glyphosate and aminomethylphosphonic acid leaching from row crop fields. Science of the Total Environment, 2017, 598, 1177-1186.	8.0	31
26	The effects of arsenic on the growth and nutritional status of Anadenanthera peregrina, a Brazilian savanna tree. Journal of Plant Nutrition and Soil Science, 2012, 175, 466-473.	1.9	26
27	Allelopathy: An overview from micro- to macroscopic organisms, from cells to environments, and the perspectives in a climate-changing world. Biologia (Poland), 2017, 72, 113-129.	1.5	24
28	Ciprofloxacin vs. temperature: Antibiotic toxicity in the free-floating liverwort Ricciocarpus natans from a climate change perspective. Chemosphere, 2018, 202, 410-419.	8.2	24
29	The Role of H2O2-Scavenging Enzymes (Ascorbate Peroxidase and Catalase) in the Tolerance of Lemna minor to Antibiotics: Implications for Phytoremediation. Antioxidants, 2022, 11, 151.	5.1	24
30	Phytoremediation by ornamental plants: a beautiful and ecological alternative. Environmental Science and Pollution Research, 2022, 29, 3336-3354.	5.3	23
31	Does Samarco's spilled mud impair the growth of native trees of the Atlantic Rainforest?. Ecotoxicology and Environmental Safety, 2020, 189, 110021.	6.0	22
32	Glyphosate and Aminomethylphosphonic Acid Content in Glyphosate-Resistant Soybean Leaves, Stems, and Roots and Associated Phytotoxicity Following a Single Glyphosate-Based Herbicide Application. Journal of Agricultural and Food Chemistry, 2019, 67, 6133-6142.	5.2	21
33	Influence of light intensity on cadmium uptake and toxicity in the cyanobacteria Synechocystis sp. PCC6803. Aquatic Toxicology, 2019, 211, 163-172.	4.0	20
34	Reactive Oxygen Species and Plant Hormones. , 2014, , 65-88.		19
35	Arsenic Root Sequestration by a Tropical Woody Legume as Affected by Arbuscular Mycorrhizal Fungi and Organic Matter: Implications for Land Reclamation. Water, Air, and Soil Pollution, 2014, 225, 1.	2.4	19
36	Isolated and combined effects of glyphosate and its by-product aminomethylphosphonic acid on the physiology and water remediation capacity of Salvinia molesta. Journal of Hazardous Materials, 2021, 417, 125694.	12.4	19

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37	Consequences of phosphate application on glyphosate uptake by roots: Impacts for environmental management practices. Science of the Total Environment, 2015, 537, 115-119.	8.0	17
38	Symbiotic association betweenSalix purpureaL. andRhizophagus irregularis: modulation of plant responses under copper stress. Tree Physiology, 2016, 36, 407-420.	3.1	17
39	Emerging Contaminants in Streams of Doce River Watershed, Minas Gerais, Brazil. Frontiers in Environmental Science, 2022, 9, .	3.3	17
40	Glyphosate Can Decrease Germination of Glyphosate-Resistant Soybeans. Journal of Agricultural and Food Chemistry, 2017, 65, 2279-2286.	5.2	15
41	Potential Efficiency of Grassy or Shrub Willow Buffer Strips against Nutrient Runoff from Soybean and Corn Fields in Southern Quebec, Canada. Journal of Environmental Quality, 2019, 48, 352-361.	2.0	15
42	Synergistic effects between arbuscular mycorrhizal fungi and rhizobium isolated from As-contaminated soils on the As-phytoremediation capacity of the tropical woody legume Anadenanthera peregrina. International Journal of Phytoremediation, 2020, 22, 1362-1371.	3.1	14
43	Sublethal biochemical, histopathological and genotoxicological effects of short-term exposure to ciprofloxacin in catfish Rhamdia quelen. Environmental Pollution, 2022, 300, 118935.	7.5	14
44	High yields of riparian buffer strips planted with Salix miyabena â€˜SX64â€™ along field crops in QuÃ©bec, Canada. Biomass and Bioenergy, 2017, 105, 219-229.	5.7	12
45	Respostas fisiolÃ³gicas e anatÃ´micas de plantas jovens de eucalipto expostas ao cÃ¡dmio. Revista Arvore, 2011, 35, 997-1006.	0.5	11
46	Cd-tolerance markers of Pfaffia glomerata (Spreng.) Pedersen plants: anatomical and physiological features. Brazilian Journal of Plant Physiology, 2012, 24, 293-304.	0.5	11
47	Physiological mechanisms responsible for tolerance to, and recuperation from, drought conditions in four different rubber clones. Industrial Crops and Products, 2019, 141, 111714.	5.2	11
48	Do nitrogen sources and molybdenum affect the nutritional quality and nitrate concentrations of hydroponic baby leaf lettuce?. Journal of Food Science, 2020, 85, 1605-1612.	3.1	11
49	Germinative metabolism and seedling growth of cowpea (Vigna unguiculata) under salt and osmotic stress. South African Journal of Botany, 2021, 139, 399-408.	2.5	11
50	Modulation of Dimorphandra wilsonii Rizz. seed germination through H2O2 production in response to Zn interference of the mitochondrial electron transport chain. Environmental and Experimental Botany, 2016, 128, 51-58.	4.2	10
51	Arbuscular Mycorrhizal Fungi and Arsenate Uptake byBrachiariaGrass (Brachiaria decumbens). Bioremediation Journal, 2015, 19, 151-159.	2.0	9
52	Evaluating aquatic macrophytes for removing erythromycin from contaminated water: floating or submerged?. International Journal of Phytoremediation, 2022, 24, 995-1003.	3.1	8
53	Toxic trace elements effects on seed germination of four Brazilian Savanna tree species. Seed Science and Technology, 2012, 40, 425-432.	1.4	7
54	Does integrative effects of glyphosate, gibberellin and hydrogen peroxide ameliorate the deleterious effects of the herbicide on sorghum seed through its germination?. Chemosphere, 2019, 233, 905-912.	8.2	6

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55	Performance of Hevea brasiliensis under drought conditions on osmoregulation and antioxidant activity through evaluation of vacuolar invertase and reducing sugars. Plant Science Today, 2021, 8, .	0.7	6
56	Crescimento, parÃ¢metros biofÃsicos e aspectos anatÃ´micos de plantas jovens de seringueira inoculadas com fungo micorrÃzico arbuscular Glomus clarum. Acta Botanica Brasilica, 2010, 24, 65-72.	0.8	5
57	Morphological and molecular data from Madeira support the persistence of an ancient lineage ofTaxus baccataL. in Macaronesia and call for immediate conservation actions. Caryologia, 2013, 66, 162-177.	0.3	5
58	Periphytic Algae and Cyanobacteria from the Rio Doce Basin Respond Differently to Metals and Salinity, Showing Different Potential for Bioremediation. Plants, 2021, 10, 2349.	3.5	5
59	Integrative effects of zinc and temperature on germination in Dimorphandra wilsonii rizz.: Implications of climate changes. Environmental Toxicology and Chemistry, 2017, 36, 2036-2042.	4.3	4
60	Comments on the â€œGlyphosate herbicide residue determination in samples of environmental importance using spectrophotometric methodâ€• Journal of Hazardous Materials, 2017, 340, 487-489.	12.4	4
61	What precedes fluoride-response symptomatology: Microscopic or physiological damage?. Ecological Indicators, 2019, 107, 105560.	6.3	4
62	Initial Growth of Peltophorum dubium Is Affected by Nitrogen Source and Manganese Concentration. Journal of Soil Science and Plant Nutrition, 2022, 22, 201-211.	3.4	4
63	FotorrespiraÃ§Ã£o e metabolismo antioxidante em plantas jovens de seringueira cultivadas sob diferentes fontes de nitrogÃªnio (NO3- e NH4+). Revista Brasileirade Ciencias Agrarias, 2015, 10, 66-73.	0.2	4
64	Fertilization assures mineral nutrition but does not overcome the effects of Fe accumulation in plants grown in iron ore tailings. Environmental Science and Pollution Research, 2022, 29, 18047-18062.	5.3	4
65	Trace Elements Tolerance Modulated by Antioxidant System in Plants. , 2014, , 523-540.		3
66	Temperature effects on Zn-responses and Zn-reclamation capacity of two native Brazilian plant species: Implications of climate change. Environmental and Experimental Botany, 2018, 155, 589-599.	4.2	3
67	Efeitos dos rejeitos da indÃºstria de zinco na anatomia e crescimento de plantas jovens de Salix humboldtiana Willd: (salgueiro). Hoehnea (revista), 2011, 38, 135-142.	0.2	2
68	Development and Validation of a Rapid and Reliable HPLC-FLD Method for the Quantification of Ciprofloxacin and Enrofloxacin Residues in Zea mays. Journal of the Brazilian Chemical Society, 0, , .	0.6	2
69	Could the fluoride-tolerant species Panicum maximum replace sensitive plants in fluoride biomonitoring?. Ecological Indicators, 2021, 122, 107308.	6.3	2
70	Integrative signaling of hydrogen peroxide and gibberellin on Znâ€•mediated alleviation of thermodormancy in sorghum seeds. Physiologia Plantarum, 2021, , e13595.	5.2	2
71	Editorial: Coping With Pollution â€“ the Effects of Environmental Contaminants on Plant Growth and Physiology. Frontiers in Plant Science, 2021, 12, 740802.	3.6	1
72	Capacity of erythromycin phytoremediation by differential aquatic macrophytes. , 0, , .		1