

# Michael Moustakas

## List of Publications by Year in descending order

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73  
papers

3,595  
citations

101384

36  
h-index

143772

57  
g-index

76  
all docs

76  
docs citations

76  
times ranked

3037  
citing authors

#	ARTICLE	IF	CITATIONS
1	Interaction of proline, sugars, and anthocyanins during photosynthetic acclimation of <i>Arabidopsis thaliana</i> to drought stress. <i>Journal of Plant Physiology</i> , 2012, 169, 577-585.	1.6	242
2	Responses of maize ( <i>Zea mays</i> L.) plants to copper stress. Growth, mineral content and ultrastructure of roots. <i>Environmental and Experimental Botany</i> , 1995, 35, 167-176.	2.0	180
3	Physiological and Ultrastructural Effects of Cadmium on Wheat ( <i>Triticum aestivum</i> L.) Leaves. <i>Archives of Environmental Contamination and Toxicology</i> , 1997, 32, 154-160.	2.1	176
4	Aluminum tolerance in maize is correlated with increased levels of mineral nutrients, carbohydrates and proline, and decreased levels of lipid peroxidation and Al accumulation. <i>Journal of Plant Physiology</i> , 2008, 165, 385-396.	1.6	164
5	Aluminum stress induces up-regulation of an efficient antioxidant system in the Al-tolerant maize line but not in the Al-sensitive line. <i>Environmental and Experimental Botany</i> , 2010, 67, 487-494.	2.0	148
6	Exogenous proline induces soluble sugar accumulation and alleviates drought stress effects on photosystem II functioning of <i>Arabidopsis thaliana</i> leaves. <i>Plant Growth Regulation</i> , 2011, 65, 315-325.	1.8	133
7	Spatio-temporal heterogeneity in <i>Arabidopsis thaliana</i> leaves under drought stress. <i>Plant Biology</i> , 2012, 14, 118-128.	1.8	90
8	Leaf Age-Dependent Photoprotective and Antioxidative Response Mechanisms to Paraquat-Induced Oxidative Stress in <i>Arabidopsis thaliana</i> . <i>International Journal of Molecular Sciences</i> , 2015, 16, 13989-14006.	1.8	78
9	Cadmium-zinc accumulation and photosystem II responses of <i>Noccaea caerulea</i> to Cd and Zn exposure. <i>Environmental Science and Pollution Research</i> , 2017, 24, 2840-2850.	2.7	78
10	Cadmium toxicity in <i>Salvia sclarea</i> L.: An integrative response of element uptake, oxidative stress markers, leaf structure and photosynthesis. <i>Ecotoxicology and Environmental Safety</i> , 2021, 209, 111851.	2.9	76
11	Contemporary Seasonal and Altitudinal Variations of Leaf Structural Features in Oregano ( <i>Origanum</i> ) Tj ETQq1 1 0.784314 rgBT /Ove	1.4	75
12	Nanobrass CuZn Nanoparticles as Foliar Spray Nonphytotoxic Fungicides. <i>ACS Applied Materials &amp; Interfaces</i> , 2018, 10, 4450-4461.	4.0	72
13	Mn-induced changes in leaf structure and chloroplast ultrastructure of <i>Citrus volkameriana</i> (L.) plants. <i>Journal of Plant Physiology</i> , 2007, 164, 100-103.	1.6	71
14	Sites of Action of Copper in the Photosynthetic Apparatus of Maize Leaves: Kinetic Analysis of Chlorophyll Fluorescence, Oxygen Evolution, Absorption Changes and Thermal Dissipation as Monitored by Photoacoustic Signals. <i>Functional Plant Biology</i> , 1997, 24, 81.	1.1	68
15	Plant metal content, growth responses and some photosynthetic measurements on field-cultivated wheat growing on ore bodies enriched in Cu. <i>Physiologia Plantarum</i> , 1993, 88, 307-314.	2.6	63
16	Response of Wheat Seedlings to Ni Stress: Effects of Supplemental Calcium. <i>Archives of Environmental Contamination and Toxicology</i> , 2006, 50, 346-352.	2.1	63
17	Aluminum effects on photosynthesis and elemental uptake in an aluminum-tolerant and non-tolerant wheat cultivar. <i>Journal of Plant Nutrition</i> , 1995, 18, 669-683.	0.9	61
18	The Role of Metal Ions in Biology, Biochemistry and Medicine. <i>Materials</i> , 2021, 14, 549.	1.3	61

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19	Aluminum resistance in wheat involves maintenance of leaf Ca <sup>2+</sup> and Mg <sup>2+</sup> content, decreased lipid peroxidation and Al accumulation, and low photosystem II excitation pressure. <i>BioMetals</i> , 2016, 29, 611-623.	1.8	59
20	Chlorophyll Fluorescence Imaging Analysis for Elucidating the Mechanism of Photosystem II Acclimation to Cadmium Exposure in the Hyperaccumulating Plant <i>Noccaea caerulescens</i> . <i>Materials</i> , 2018, 11, 2580.	1.3	58
21	Photoprotective mechanism of the non-target organism <i>Arabidopsis thaliana</i> to paraquat exposure. <i>Pesticide Biochemistry and Physiology</i> , 2014, 111, 1-6.	1.6	56
22	High anthocyanin accumulation in poinsettia leaves is accompanied by thylakoid membrane unstacking, acting as a photoprotective mechanism, to prevent ROS formation. <i>Environmental and Experimental Botany</i> , 2018, 154, 44-55.	2.0	56
23	Anthocyanin accumulation in poinsettia leaves and its functional role in photo-oxidative stress. <i>Environmental and Experimental Botany</i> , 2020, 175, 104065.	2.0	49
24	Field study of the effects of excess copper on wheat photosynthesis and productivity. <i>Soil Science and Plant Nutrition</i> , 1997, 43, 531-539.	0.8	48
25	Hormesis in photosystem II: a mechanistic understanding. <i>Current Opinion in Toxicology</i> , 2022, 29, 57-64.	2.6	45
26	Leaf developmental stage modulates metabolite accumulation and photosynthesis contributing to acclimation of <i>Arabidopsis thaliana</i> to water deficit. <i>Journal of Plant Research</i> , 2014, 127, 481-489.	1.2	44
27	Photosystem II Is More Sensitive than Photosystem I to Al <sup>3+</sup> Induced Phytotoxicity. <i>Materials</i> , 2018, 11, 1772.	1.3	43
28	Aluminate-Induced Changes in Morphology and Ultrastructure of <i>Thinopyrum</i> Roots. <i>Journal of Experimental Botany</i> , 1993, 44, 427-436.	2.4	42
29	Arbuscular Mycorrhizal Symbiosis Enhances Photosynthesis in the Medicinal Herb <i>Salvia fruticosa</i> by Improving Photosystem II Photochemistry. <i>Plants</i> , 2020, 9, 962.	1.6	42
30	Differential response of photosystem II photochemistry in young and mature leaves of <i>Arabidopsis thaliana</i> to the onset of drought stress. <i>Acta Physiologiae Plantarum</i> , 2012, 34, 1267-1276.	1.0	41
31	Zinc Uptake, Photosynthetic Efficiency and Oxidative Stress in the Seagrass <i>Cymodocea nodosa</i> Exposed to ZnO Nanoparticles. <i>Materials</i> , 2019, 12, 2101.	1.3	41
32	Effect of heavy metals on isoperoxidases of Wheat. <i>Biologia Plantarum</i> , 1991, 33, 3-9.	1.9	40
33	A better energy allocation of absorbed light in photosystem II and less photooxidative damage contribute to acclimation of <i>Arabidopsis thaliana</i> young leaves to water deficit. <i>Journal of Plant Physiology</i> , 2014, 171, 587-593.	1.6	40
34	Short-term effects of aluminium at alkaline pH on the structure and function of the photosynthetic apparatus. <i>Photosynthetica</i> , 1997, 34, 169-177.	0.9	38
35	Spatial Heterogeneity of Cadmium Effects on <i>Salvia sclarea</i> Leaves Revealed by Chlorophyll Fluorescence Imaging Analysis and Laser Ablation Inductively Coupled Plasma Mass Spectrometry. <i>Materials</i> , 2019, 12, 2953.	1.3	38
36	Spatiotemporal heterogeneity of photosystem II function during acclimation to zinc exposure and mineral nutrition changes in the hyperaccumulator <i>Noccaea caerulescens</i> . <i>Environmental Science and Pollution Research</i> , 2019, 26, 6613-6624.	2.7	38

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37	Editorial: Chlorophyll Fluorescence Imaging Analysis in Biotic and Abiotic Stress. <i>Frontiers in Plant Science</i> , 2021, 12, 658500.	1.7	38
38	Photochemical changes and oxidative damage in the aquatic macrophyte <i>Cymodocea nodosa</i> exposed to paraquat-induced oxidative stress. <i>Pesticide Biochemistry and Physiology</i> , 2016, 126, 28-34.	1.6	37
39	Combined effects of altitude and season on leaf characteristics of <i>Clinopodium vulgare</i> L. (Labiatae). <i>Environmental and Experimental Botany</i> , 2007, 60, 69-76.	2.0	36
40	Rapid Screening for Aluminum Tolerance in Cereals by Use of the Chlorophyll Fluorescence Test. <i>Plant Breeding</i> , 1993, 111, 343-346.	1.0	33
41	Copper bioaccumulation, photosystem II functioning, and oxidative stress in the seagrass <i>Cymodocea nodosa</i> exposed to copper oxide nanoparticles. <i>Environmental Science and Pollution Research</i> , 2017, 24, 16007-16018.	2.7	33
42	Evaluation of olive oil mill wastewater toxicity on spinach. <i>Environmental Science and Pollution Research</i> , 2012, 19, 2363-2371.	2.7	32
43	Hydrogen Peroxide Production by the Spot-Like Mode Action of Bisphenol A. <i>Frontiers in Plant Science</i> , 2020, 11, 1196.	1.7	31
44	Rapid Hormetic Responses of Photosystem II Photochemistry of Clary Sage to Cadmium Exposure. <i>International Journal of Molecular Sciences</i> , 2021, 22, 41.	1.8	31
45	Protein Phosphorylation-Dephosphorylation in Alfalfa Seeds Germinating under Salt Stress. <i>Journal of Plant Physiology</i> , 1994, 143, 234-240.	1.6	30
46	Molecular identification of Greek olive ( <i>Olea europaea</i> ) cultivars based on microsatellite loci. <i>Genetics and Molecular Research</i> , 2010, 9, 1865-1876.	0.3	30
47	Toxicity effects of olive-mill wastewater on growth, photosynthesis and pollen morphology of spinach plants. <i>Ecotoxicology and Environmental Safety</i> , 2012, 80, 69-75.	2.9	30
48	Evaluation of the spatiotemporal effects of bisphenol A on the leaves of the seagrass <i>Cymodocea nodosa</i> . <i>Journal of Hazardous Materials</i> , 2021, 404, 124001.	6.5	30
49	Chlorophyll fluorescence and photoacoustic characteristics in relationship to changes in chlorophyll and Ca <sup>2+</sup> content of a Cu-tolerant <i>Silene compacta</i> ecotype under Cu treatment. <i>Physiologia Plantarum</i> , 1995, 93, 551-557.	2.6	29
50	Leaf Age-Dependent Effects of Foliar-Sprayed CuZn Nanoparticles on Photosynthetic Efficiency and ROS Generation in <i>Arabidopsis thaliana</i> . <i>Materials</i> , 2019, 12, 2498.	1.3	29
51	Hormetic Responses of Photosystem II in Tomato to <i>Botrytis cinerea</i> . <i>Plants</i> , 2021, 10, 521.	1.6	29
52	Leaf Age-Dependent Photosystem II Photochemistry and Oxidative Stress Responses to Drought Stress in <i>Arabidopsis thaliana</i> Are Modulated by Flavonoid Accumulation. <i>Molecules</i> , 2021, 26, 4157.	1.7	29
53	Harnessing Chlorophyll Fluorescence for Phenotyping Analysis of Wild and Cultivated Tomato for High Photochemical Efficiency under Water Deficit for Climate Change Resilience. <i>Climate</i> , 2021, 9, 154.	1.2	29
54	Excess Zinc Supply Reduces Cadmium Uptake and Mitigates Cadmium Toxicity Effects on Chloroplast Structure, Oxidative Stress, and Photosystem II Photochemical Efficiency in <i>Salvia sclarea</i> Plants. <i>Toxics</i> , 2022, 10, 36.	1.6	29

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55	Differential blockage of photosynthetic electron flow in young and mature leaves of <i>Arabidopsis thaliana</i> by exogenous proline. <i>Photosynthetica</i> , 2015, 53, 471-477.	0.9	27
56	>Aluminum toxicity effects on durum wheat cultivars. <i>Journal of Plant Nutrition</i> , 1992, 15, 627-638.	0.9	26
57	Tolerance Mechanisms of the Aromatic and Medicinal Plant <i>Salvia sclarea</i> L. to Excess Zinc. <i>Plants</i> , 2021, 10, 194.	1.6	26
58	Changes in Light Energy Utilization in Photosystem II and Reactive Oxygen Species Generation in Potato Leaves by the Pinworm <i>Tuta absoluta</i> . <i>Molecules</i> , 2021, 26, 2984.	1.7	25
59	Harnessing the Role of Foliar Applied Salicylic Acid in Decreasing Chlorophyll Content to Reassess Photosystem II Photoprotection in Crop Plants. <i>International Journal of Molecular Sciences</i> , 2022, 23, 7038.	1.8	25
60	Plant response to lead in the presence or absence EDTA in two sunflower genotypes (cultivated H.) <i>Tj ETQq0 0 0 rgBT /Overlock 10 Tf 50 Research</i> , 2013, 20, 823-833.	2.7	22
61	Plant Photochemistry, Reactive Oxygen Species, and Photoprotection. <i>Photochem</i> , 2022, 2, 5-8.	1.3	22
62	Physiological, structural and ultrastructural impacts of silver nanoparticles on the seagrass <i>Cymodocea nodosa</i> . <i>Chemosphere</i> , 2020, 248, 126066.	4.2	20
63	Chlorophyll fluorescence and photoacoustic characteristics in relationship to changes in chlorophyll and Ca <sup>2+</sup> content of a Cu-tolerant <i>Silene compacta</i> ecotype under Cu treatment. <i>Physiologia Plantarum</i> , 1995, 93, 551-557.	2.6	17
64	Reactive Oxygen Species Initiate Defence Responses of Potato Photosystem II to Sap-Sucking Insect Feeding. <i>Insects</i> , 2022, 13, 409.	1.0	17
65	Seed Protein Electrophoresis in <i>Agropyron junceum</i> (L.) P.B. Complex. <i>Annals of Botany</i> , 1986, 57, 35-40.	1.4	14
66	Photosystem 2 activity of <i>Citrus volkameriana</i> (L.) leaves as affected by Mn nutrition and irradiance. <i>Photosynthetica</i> , 2007, 45, 208-213.	0.9	13
67	Genome relationships in the <i>Elytrigia</i> group of the genus <i>Agropyron</i> (Poaceae) as indicated by seed protein electrophoresis. <i>Plant Systematics and Evolution</i> , 1988, 161, 147-153.	0.3	12
68	Effect of Toxic Metals on the Multiple Forms of Esterases of <i>Triticum aestivum</i> cv. <i>Vergina</i> . <i>Journal of Agronomy and Crop Science</i> , 1988, 160, 106-112.	1.7	9
69	Relationship between Quality, Colour of Glume and Gliadin Electrophoregrams in Durum Wheat. <i>Plant Breeding</i> , 1988, 101, 30-35.	1.0	8
70	Seed Protein Electrophoresis for Varietal Identification in Rice ( <i>Oryza sativa</i> L.). <i>Journal of Agronomy and Crop Science</i> , 1992, 168, 95-99.	1.7	7
71	Copper uptake kinetics and toxicological effects of ionic Cu and CuO nanoparticles on the seaweed <i>Ulva rigida</i> . <i>Environmental Science and Pollution Research</i> , 2022, 29, 57523-57542.	2.7	7
72	Genome relationships between octoploid and decaploid <i>Thinopyrum ponticum</i> . <i>Botanical Journal of the Linnean Society</i> , 1993, 112, 149-157.	0.8	4

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73	Paraquat and roundup effects on nucleases activities of alfalfa seedlings and alfalfa nucleases activities on paraquat-treated and roundup-treated nucleic acids. <i>Acta Physiologiae Plantarum</i> , 2010, 32, 11-17.	1.0	0