

# Ahmed Debez

## List of Publications by Year in descending order

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83  
papers

3,569  
citations

159358

30  
h-index

143772

57  
g-index

86  
all docs

86  
docs citations

86  
times ranked

3703  
citing authors

#	ARTICLE	IF	CITATIONS
1	Salinity effects on polyphenol content and antioxidant activities in leaves of the halophyte <i>Cakile maritima</i> . <i>Plant Physiology and Biochemistry</i> , 2007, 45, 244-249.	2.8	379
2	Medicinal halophytes: potent source of health promoting biomolecules with medical, nutraceutical and food applications. <i>Critical Reviews in Biotechnology</i> , 2012, 32, 289-326.	5.1	307
3	Physiological and antioxidant responses of the perennial halophyte <i>Crithmum maritimum</i> to salinity. <i>Plant Science</i> , 2005, 168, 889-899.	1.7	277
4	Salinity effects on germination, growth, and seed production of the halophyte <i>Cakile maritima</i> . <i>Plant and Soil</i> , 2004, 262, 179-189.	1.8	222
5	Potassium deficiency in plants: effects and signaling cascades. <i>Acta Physiologiae Plantarum</i> , 2014, 36, 1055-1070.	1.0	167
6	Comparative salt tolerance analysis between <i>Arabidopsis thaliana</i> and <i>Thellungiella halophila</i> , with special emphasis on K <sup>+</sup> /Na <sup>+</sup> selectivity and proline accumulation. <i>Journal of Plant Physiology</i> , 2008, 165, 588-599.	1.6	134
7	Leaf H <sup>+</sup> -ATPase activity and photosynthetic capacity of <i>Cakile maritima</i> under increasing salinity. <i>Environmental and Experimental Botany</i> , 2006, 57, 285-295.	2.0	116
8	NADPH oxidase-dependent H <sub>2</sub> O <sub>2</sub> production is required for salt-induced antioxidant defense in <i>Arabidopsis thaliana</i> . <i>Journal of Plant Physiology</i> , 2015, 174, 5-15.	1.6	112
9	Effect of P on nodule formation and N fixation in bean. <i>Agronomy for Sustainable Development</i> , 2005, 25, 389-393.	2.2	103
10	<i>Aster tripolium</i> L. and <i>Sesuvium portulacastrum</i> L.: two halophytes, two strategies to survive in saline habitats. <i>Plant Physiology and Biochemistry</i> , 2006, 44, 395-408.	2.8	95
11	Application of municipal solid waste compost reduces the negative effects of saline water in <i>Hordeum maritimum</i> L.. <i>Bioresource Technology</i> , 2008, 99, 7160-7167.	4.8	90
12	Salt tolerance of the annual halophyte <i>Cakile maritima</i> as affected by the provenance and the developmental stage. <i>Acta Physiologiae Plantarum</i> , 2007, 29, 375-384.	1.0	73
13	Comparative Ni tolerance and accumulation potentials between <i>Mesembryanthemum crystallinum</i> (halophyte) and <i>Brassica juncea</i> : Metal accumulation, nutrient status and photosynthetic activity. <i>Journal of Plant Physiology</i> , 2014, 171, 1634-1644.	1.6	71
14	Relationship between the photosynthetic activity and the performance of <i>Cakile maritima</i> after long-term salt treatment. <i>Physiologia Plantarum</i> , 2008, 133, 373-385.	2.6	70
15	Interactive effects of salinity and potassium availability on growth, water status, and ionic composition of <i>Hordeum maritimum</i> . <i>Journal of Plant Nutrition and Soil Science</i> , 2007, 170, 469-473.	1.1	68
16	ABA, GA <sub>3</sub> , and nitrate may control seed germination of <i>Crithmum maritimum</i> (Apiaceae) under saline conditions. <i>Comptes Rendus - Biologies</i> , 2009, 332, 704-710.	0.1	63
17	Effect of high salinity on <i>Atriplex portulacoides</i> : Growth, leaf water relations and solute accumulation in relation with osmotic adjustment. <i>South African Journal of Botany</i> , 2014, 95, 70-77.	1.2	57
18	Photosynthetic activity and leaf antioxidative responses of <i>Atriplex portulacoides</i> subjected to extreme salinity. <i>Acta Physiologiae Plantarum</i> , 2012, 34, 1679-1688.	1.0	53

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19	Genotypic variability within Tunisian grapevine varieties ( <i>Vitis vinifera</i> L.) facing bicarbonate-induced iron deficiency. <i>Plant Physiology and Biochemistry</i> , 2007, 45, 315-322.	2.8	49
20	Alleviation of phosphorus deficiency stress by moderate salinity in the halophyte <i>Hordeum maritimum</i> L.. <i>Plant Growth Regulation</i> , 2012, 66, 75-85.	1.8	49
21	Interactive effects of salinity and phosphorus availability on growth, water relations, nutritional status and photosynthetic activity of barley ( <i>Hordeum vulgare</i> L.). <i>Plant Biology</i> , 2011, 13, 872-880.	1.8	48
22	Effect of municipal solid waste compost and sewage sludge use on wheat ( <i>Triticum durum</i> ): growth, heavy metal accumulation, and antioxidant activity. <i>Journal of the Science of Food and Agriculture</i> , 2010, 90, 965-971.	1.7	46
23	Responses of <i>Batis maritima</i> plants challenged with up to two-fold seawater NaCl salinity. <i>Journal of Plant Nutrition and Soil Science</i> , 2010, 173, 291-299.	1.1	42
24	Proteomic and physiological responses of the halophyte <i>Cakile maritima</i> to moderate salinity at the germinative and vegetative stages. <i>Journal of Proteomics</i> , 2012, 75, 5667-5694.	1.2	41
25	Facing the challenge of sustainable bioenergy production: Could halophytes be part of the solution?. <i>Journal of Biological Engineering</i> , 2017, 11, 27.	2.0	39
26	High salinity impacts germination of the halophyte <i>Cakile maritima</i> but primes seeds for rapid germination upon stress release. <i>Physiologia Plantarum</i> , 2018, 164, 134-144.	2.6	35
27	Differential response to salinity and water deficit stress in <i>Polypogon monspeliensis</i> (L.) Desf. provenances during germination. <i>Plant Biology</i> , 2011, 13, 541-545.	1.8	34
28	Municipal solid waste compost application improves productivity, polyphenol content, and antioxidant capacity of <i>Mesembryanthemum edule</i> . <i>Journal of Hazardous Materials</i> , 2011, 191, 373-379.	6.5	34
29	Modulation of C:N:P stoichiometry is involved in the effectiveness of a PGPR and AM fungus in increasing salt stress tolerance of <i>Sulla carnosia</i> Tunisian provenances. <i>Applied Soil Ecology</i> , 2019, 143, 161-172.	2.1	34
30	Salicylic acid mitigates cadmium toxicity in bean ( <i>Phaseolus vulgaris</i> L.) seedlings by modulating cellular redox status. <i>Environmental and Experimental Botany</i> , 2021, 186, 104432.	2.0	34
31	Nitric oxide donor, sodium nitroprusside modulates hydrogen sulfide metabolism and cysteine homeostasis to aid the alleviation of chromium toxicity in maize seedlings ( <i>Zea mays</i> L.). <i>Journal of Hazardous Materials</i> , 2022, 424, 127302.	6.5	34
32	Effect of phosphorus deficiency on acid phosphatase and phytase activities in common bean ( <i>Phaseolus vulgaris</i> L.) under symbiotic nitrogen fixation. <i>Symbiosis</i> , 2009, 47, 141-149.	1.2	33
33	Differential Responses in Potassium Absorption and Use Efficiencies in the Halophytes <i>Catapodium rigidum</i> and <i>Hordeum maritimum</i> to Various Potassium Concentrations in the Medium. <i>Plant Production Science</i> , 2011, 14, 135-140.	0.9	30
34	Water deficit stress applied only or combined with salinity affects physiological parameters and antioxidant capacity in <i>Sesuvium portulacastrum</i> . <i>Flora: Morphology, Distribution, Functional Ecology of Plants</i> , 2015, 213, 69-76.	0.6	29
35	Effects of salt treatment on growth, lipid membrane peroxidation, polyphenol content, and antioxidant activities in leaves of <i>Sesuvium portulacastrum</i> L.. <i>Arid Land Research and Management</i> , 2017, 31, 404-417.	0.6	26
36	Ecophysiological and genomic analysis of salt tolerance of <i>Cakile maritima</i> . <i>Environmental and Experimental Botany</i> , 2013, 92, 64-72.	2.0	25

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37	Potential utilisation of halophytes for the rehabilitation and valorisation of salt-affected areas in Tunisia. , 2006, , 163-172.		24
38	Root Proliferation, Proton Efflux, and Acid Phosphatase Activity in Common Bean ( <i>Phaseolus</i> ) Tj ETQq0 0 0 rgBT /Overlock 10 Tf 50 702	0.9	24
39	Germination kinetics and seed reserve mobilization in two flax ( <i>Linum usitatissimum</i> L.) cultivars under moderate salt stress. <i>Journal of Plant Biology</i> , 2007, 50, 447-454.	0.9	23
40	Interactive effects of salinity, nitrate, light, and seed weight on the germination of the halophyte <i>Crithmum maritimum</i> . <i>Acta Biologica Hungarica</i> , 2009, 60, 433-439.	0.7	18
41	Comparison of two chickpea varieties regarding their responses to direct and induced Fe deficiency. <i>Environmental and Experimental Botany</i> , 2009, 66, 349-356.	2.0	16
42	The effect of hyper-osmotic salinity on protein pattern and enzyme activities of halophytes. <i>Functional Plant Biology</i> , 2013, 40, 787.	1.1	16
43	Comparative analysis of salt-induced changes in the root proteome of two accessions of the halophyte <i>Cakile maritima</i> . <i>Plant Physiology and Biochemistry</i> , 2018, 130, 20-29.	2.8	16
44	Interaction between Salinity and Original Habitat during Germination of the Annual Seashore Halophyte <i>Cakile Maritima</i> . <i>Communications in Soil Science and Plant Analysis</i> , 2009, 40, 3170-3180.	0.6	15
45	Plant Growth-Promoting Rhizobacteria Alleviate High Salinity Impact on the Halophyte <i>Suaeda fruticosa</i> by Modulating Antioxidant Defense and Soil Biological Activity. <i>Frontiers in Plant Science</i> , 2022, 13, .	1.7	15
46	Histochemical Localization of Essential Oils and Bioactive Substances in the Seed Coat of the Halophyte <i>Crithmum maritimum</i> L. ( <i>Apiaceae</i> ). <i>Journal of Plant Biology</i> , 2009, 52, 448-452.	0.9	14
47	Variability Of Fruit And Seed-Oil Characteristics In Tunisian Accessions Of The Halophyte <i>Cakile Maritima</i> ( <i>Brassicaceae</i> ). <i>Tasks for Vegetation Science</i> , 2008, , 55-67.	0.6	13
48	Current Challenges and Future Opportunities for a Sustainable Utilization of Halophytes. <i>Tasks for Vegetation Science</i> , 2010, , 59-77.	0.6	13
49	Environmental and Economical Opportunities for the Valorisation of the Genus <i>Atriplex</i> : New Insights. , 2013, , 441-457.		13
50	Arbuscular mycorrhizal fungus and rhizobacteria affect the physiology and performance of <i>Sulla coronariaplants</i> subjected to salt stress by mitigation of ionic imbalance. <i>Journal of Plant Nutrition and Soil Science</i> , 2019, 182, 451-462.	1.1	13
51	Potassium (K+) Starvation-Induced Oxidative Stress Triggers a General Boost of Antioxidant and NADPH-Generating Systems in the Halophyte <i>Cakile maritima</i> . <i>Antioxidants</i> , 2022, 11, 401.	2.2	12
52	Ecophysiological aspects in 105 plants species of saline and arid environments in Tunisia. <i>Journal of Arid Land</i> , 2014, 6, 762-770.	0.9	11
53	Composition and Stability of the Oxidative Phosphorylation System in the Halophile Plant <i>Cakile maritima</i> . <i>Frontiers in Plant Science</i> , 2019, 10, 1010.	1.7	11
54	Risk of municipal solid waste compost and sewage sludge use on photosynthetic performance in common crop ( <i>Triticum durum</i> ). <i>Acta Physiologiae Plantarum</i> , 2012, 34, 1017-1026.	1.0	10

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55	Salt Tolerance and Potential Uses for Saline Agriculture of Halophytes from the Poaceae. Tasks for Vegetation Science, 2019, , 223-237.	0.6	10
56	Comparative analysis of salt impact on sea barley from semi-arid habitats in Tunisia and cultivated barley with special emphasis on reserve mobilization and stress recovery aptitude. Plant Biosystems, 2020, 154, 544-552.	0.8	10
57	Factors controlling germination and dormancy processes in dimorphic fruits of <i>Atriplex inflata</i> (Chenopodiaceae). Plant Ecology and Evolution, 2011, 144, 307-312.	0.3	9
58	Recovery aptitude of the halophyte <i>Cakile maritima</i> upon water deficit stress release is sustained by extensive modulation of the leaf proteome. Ecotoxicology and Environmental Safety, 2019, 179, 198-211.	2.9	9
59	Silicon (Si) Alleviates Iron Deficiency Effects in Sea Barley ( <i>Hordeum marinum</i> ) by Enhancing Iron Accumulation and Photosystem Activities. Silicon, 2022, 14, 6697-6712.	1.8	9
60	Physiological and biochemical traits involved in the genotypic variability to salt tolerance of Tunisian <i>Cakile maritima</i> . African Journal of Ecology, 2009, 47, 774-783.	0.4	8
61	Relationship Between Ion Content in Seed and Spongy Coat of the Medicinal Halophyte <i>Crithmum maritimum</i> L. and Germination Capacity. Notulae Scientia Biologicae, 2010, 2, 72-74.	0.1	8
62	Stability of thylakoid protein complexes and preserving photosynthetic efficiency are crucial for the successful recovery of the halophyte <i>Cakile maritima</i> from high salinity. Plant Physiology and Biochemistry, 2021, 166, 177-190.	2.8	8
63	Salt and seawater effects on the germination of <i>Crithmum maritimum</i> . , 2006, , 29-33.		8
64	Improving environmental stress resilience in crops by genome editing: insights from extremophile plants. Critical Reviews in Biotechnology, 2023, 43, 559-574.	5.1	8
65	Plant Hormones: Potent Targets for Engineering Salinity Tolerance in Plants. , 2018, , 159-184.		7
66	Phenolic accumulation and related antioxidant capacity in stems and roots of the Tunisian extremophile <i>Sulla carnosus</i> as influenced by potassium application under salinity stress. Arabian Journal of Geosciences, 2021, 14, 1.	0.6	7
67	The mericarp of the halophyte <i>Crithmum maritimum</i> (Apiaceae): structural features, germination, and salt distribution. Biologia (Poland), 2010, 65, 489-495.	0.8	6
68	Implication of Rhizosphere Acidification in Nutrient Uptake by Plants: Cases of Potassium (K), Phosphorus (P), and Iron (Fe). , 2015, , 103-122.		6
69	Insights into Physiological Responses of the Halophyte <i>Suaeda fruticosa</i> to Simultaneous Salinity and Iron Deficiency. Clean - Soil, Air, Water, 2015, 43, 382-390.	0.7	6
70	Physiological responses and structural modifications in <i>Atriplex halimus</i> L. plants exposed to salinity. Tasks for Vegetation Science, 2003, , 19-30.	0.6	6
71	Assessing solid waste compost application as a practical approach for salt-affected soil reclamation. Acta Agriculturae Scandinavica - Section B Soil and Plant Science, 2011, 61, 284-288.	0.3	5
72	One-step removal of organic matter and heavy metals from Tunisian oil field (TOF) produced water using soluble sodium silicate with a unit molar ratio SiO <sub>2</sub> /Na <sub>2</sub> O. Arabian Journal of Geosciences, 2021, 14, 1.	0.6	5

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73	Salt effect on growth, photosynthesis, seed yield and oil composition of the potential crop halophyte <i>Cakile maritima</i> . , 2006, , 55-63.		5
74	Silicon Seed Priming Enhances Salt Tolerance of Barley Seedlings through Early ROS Detoxification and Stimulation of Antioxidant Defence. <i>Silicon</i> , 2023, 15, 37-60.	1.8	5
75	Investigation of embryo growth and reserve mobilization of water or salt imbibed seeds of <i>Crithmum maritimum</i> L.. <i>Acta Botanica Gallica</i> , 2012, 159, 17-24.	0.9	4
76	Involvement of nitrogen in salt resistance of <i>Atriplex portulacoides</i> supported by split-root experiment data and exogenous application of N-rich compounds. <i>Journal of Plant Nutrition and Soil Science</i> , 2015, 178, 312-319.	1.1	4
77	Halophyte-Fodder Species Association May Improve Nutrient Availability and Biomass Production of the Sabkha Ecosystem. <i>Tasks for Vegetation Science</i> , 2010, , 85-94.	0.6	4
78	Changes in leaf ecophysiological traits and proteome profile provide new insights into variability of salt response in the succulent halophyte <i>Cakile maritima</i> . <i>Functional Plant Biology</i> , 2022, , .	1.1	4
79	Yield and seed quality of two N <sub>2</sub> -fixing common bean cultivars grown on calcareous soil. <i>Symbiosis</i> , 2010, 51, 249-256.	1.2	3
80	Comparative study of the effect of salt stress, <i>Alternaria alternata</i> attack or combined stress on the <i>Cakile maritima</i> growth and physiological performance. <i>Notulae Botanicae Horti Agrobotanici Cluj-Napoca</i> , 2021, 49, 12446.	0.5	3
81	Comparative responses to water deficit stress and subsequent recovery in the cultivated beet <i>Beta vulgaris</i> and its wild relative <i>B. macrocarpa</i> . <i>Crop and Pasture Science</i> , 2016, 67, 553.	0.7	2
82	Molecular Mechanisms of Osmotic Stress Recovery in Extremophile Plants: What Can We Learn from Proteomics?. , 2019, , 157-170.		1
83	Nitrogen metabolism plays a major role in the adaptation of the halophytic forage species <i>Sulla carnosa</i> to water deficit and upon stress recovery. <i>Plant Biosystems</i> , 2022, 156, 1438-1447.	0.8	0