

# Han Asard

## List of Publications by Year in descending order

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90  
papers

5,604  
citations

71102

41  
h-index

82547

72  
g-index

91  
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91  
docs citations

91  
times ranked

6626  
citing authors

#	ARTICLE	IF	CITATIONS
1	Essential Oil Composition and Antioxidant and Antifungal Activities of Two Varieties of <i>Ocimum basilicum</i> L. (Lamiaceae) at Two Phenological Stages. <i>Agronomy</i> , 2022, 12, 825.	3.0	10
2	Does previous exposure to extreme precipitation regimes result in acclimated grassland communities?. <i>Science of the Total Environment</i> , 2022, 838, 156368.	8.0	4
3	Drought tolerance in selected aerobic and upland rice varieties is driven by different metabolic and antioxidative responses. <i>Planta</i> , 2021, 254, 13.	3.2	9
4	Soil arsenic toxicity differentially impacts C3 (barley) and C4 (maize) crops under future climate atmospheric CO <sub>2</sub> . <i>Journal of Hazardous Materials</i> , 2021, 414, 125331.	12.4	26
5	Biomarkers for grain yield stability in rice under drought stress. <i>Journal of Experimental Botany</i> , 2020, 71, 669-683.	4.8	71
6	Redox homeostasis in the growth zone of the rice leaf plays a key role in cold tolerance. <i>Journal of Experimental Botany</i> , 2020, 71, 1053-1066.	4.8	8
7	Maize roots and shoots show distinct profiles of oxidative stress and antioxidant defense under heavy metal toxicity. <i>Environmental Pollution</i> , 2020, 258, 113705.	7.5	112
8	Al exposure increases proline levels by different pathways in an Al-sensitive and an Al-tolerant rye genotype. <i>Scientific Reports</i> , 2020, 10, 16401.	3.3	13
9	Hormonal seed-priming improves tomato resistance against broomrape infection. <i>Journal of Plant Physiology</i> , 2020, 250, 153184.	3.5	14
10	Starch biosynthesis contributes to the maintenance of photosynthesis and leaf growth under drought stress in maize. <i>Plant, Cell and Environment</i> , 2020, 43, 2254-2271.	5.7	37
11	Interspecific plant competition mediates the metabolic and ecological signature of a plant-herbivore interaction under warming and elevated CO <sub>2</sub> . <i>Functional Ecology</i> , 2019, 33, 1842-1853.	3.6	3
12	Detecting the onset of autumn leaf senescence in deciduous forest trees of the temperate zone. <i>New Phytologist</i> , 2019, 224, 166-176.	7.3	42
13	Morphological and biochemical responses of <i>Balanites aegyptiaca</i> to drought stress and recovery are provenance-dependent. <i>Journal of Agronomy and Crop Science</i> , 2019, 205, 490-507.	3.5	5
14	Vermicompost Supply Modifies Chemical Composition and Improves Nutritive and Medicinal Properties of Date Palm Fruits From Saudi Arabia. <i>Frontiers in Plant Science</i> , 2019, 10, 424.	3.6	16
15	O <sub>3</sub> pollution in a future climate increases the competition between summer rape and wild mustard. <i>Plant Physiology and Biochemistry</i> , 2019, 135, 194-205.	5.8	8
16	Perfluoroalkyl Acids (PFAAs) Concentrations and Oxidative Status in Two Generations of Great Tits Inhabiting a Contamination Hotspot. <i>Environmental Science &amp; Technology</i> , 2019, 53, 1617-1626.	10.0	34
17	The Systems Architecture of Molecular Memory in Poplar after Abiotic Stress. <i>Plant Cell</i> , 2019, 31, 346-367.	6.6	29
18	Dynamics of metabolic responses to periods of combined heat and drought in <i>Arabidopsis thaliana</i> under ambient and elevated atmospheric CO <sub>2</sub> . <i>Journal of Experimental Botany</i> , 2018, 69, 2159-2170.	4.8	67

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19	Effects of ocean acidification on the levels of primary and secondary metabolites in the brown macroalga <i>Sargassum vulgare</i> at different time scales. <i>Science of the Total Environment</i> , 2018, 643, 946-956.	8.0	26
20	Sex-specific effects of inbreeding and early life conditions on the adult oxidative balance. <i>Environmental Epigenetics</i> , 2018, 64, 631-639.	1.8	8
21	Mixture toxicity of copper, cadmium, and zinc to barley seedlings is not explained by antioxidant and oxidative stress biomarkers. <i>Environmental Toxicology and Chemistry</i> , 2017, 36, 220-230.	4.3	44
22	Molecular response of <i>Sargassum vulgare</i> to acidification at volcanic $\text{CO}_2$ vents: insights from de novo transcriptomic analysis. <i>Molecular Ecology</i> , 2017, 26, 2276-2290.	3.9	21
23	Zinc-induced differential oxidative stress and antioxidant responses in <i>Chlorella sorokiniana</i> and <i>Scenedesmus acuminatus</i> . <i>Ecotoxicology and Environmental Safety</i> , 2017, 140, 256-263.	6.0	76
24	Experimental inhibition of a key cellular antioxidant affects vocal communication. <i>Functional Ecology</i> , 2017, 31, 1101-1110.	3.6	7
25	Neither artificial light at night, anthropogenic noise nor distance from roads are associated with oxidative status of nestlings in an urban population of songbirds. <i>Comparative Biochemistry and Physiology Part A, Molecular &amp; Integrative Physiology</i> , 2017, 210, 14-21.	1.8	48
26	Oxidative stress biomarkers are associated with visible clinical signs of a disease in frigatebird nestlings. <i>Scientific Reports</i> , 2017, 7, 1599.	3.3	21
27	High Antioxidant Activity Facilitates Maintenance of Cell Division in Leaves of Drought Tolerant Maize Hybrids. <i>Frontiers in Plant Science</i> , 2017, 8, 84.	3.6	52
28	Physiological and Biochemical Analyses Shed Light on the Response of <i>Sargassum vulgare</i> to Ocean Acidification at Different Time Scales. <i>Frontiers in Plant Science</i> , 2017, 8, 570.	3.6	24
29	Perturbation of Auxin Homeostasis and Signaling by PINOID Overexpression Induces Stress Responses in <i>Arabidopsis</i> . <i>Frontiers in Plant Science</i> , 2017, 8, 1308.	3.6	14
30	Metalaxyl Effects on Antioxidant Defenses in Leaves and Roots of <i>Solanum nigrum</i> L.. <i>Frontiers in Plant Science</i> , 2017, 8, 1967.	3.6	31
31	High Salinity Induces Different Oxidative Stress and Antioxidant Responses in Maize Seedlings Organs. <i>Frontiers in Plant Science</i> , 2016, 7, 276.	3.6	343
32	Future Climate CO2 Levels Mitigate Stress Impact on Plants: Increased Defense or Decreased Challenge?. <i>Frontiers in Plant Science</i> , 2016, 7, 556.	3.6	74
33	Experimental evidence that oxidative stress influences reproductive decisions. <i>Functional Ecology</i> , 2016, 30, 1169-1174.	3.6	62
34	Prioritization of contaminated watercourses using an integrated biomarker approach in caged carp. <i>Water Research</i> , 2016, 99, 129-139.	11.3	11
35	Artificial light at night affects body mass but not oxidative status in free-living nestling songbirds: an experimental study. <i>Scientific Reports</i> , 2016, 6, 35626.	3.3	61
36	Grassland species differentially regulate proline concentrations under future climate conditions: an integrated biochemical and modelling approach. <i>New Phytologist</i> , 2015, 208, 354-369.	7.3	77

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37	Plant Responses to Drought Stress in Future Climate CO <sub>2</sub> : A Multi-level Analysis. <i>Procedia Environmental Sciences</i> , 2015, 29, 150-151.	1.4	0
38	Metabolic Analysis of Various Date Palm Fruit ( <i>Phoenix dactylifera</i> L.) Cultivars from Saudi Arabia to Assess Their Nutritional Quality. <i>Molecules</i> , 2015, 20, 13620-13641.	3.8	175
39	Nutritional Status as the Key Modulator of Antioxidant Responses Induced by High Environmental Ammonia and Salinity Stress in European Sea Bass ( <i>Dicentrarchus labrax</i> ). <i>PLoS ONE</i> , 2015, 10, e0135091.	2.5	66
40	Drought Induces Distinct Growth Response, Protection, and Recovery Mechanisms in the Maize Leaf Growth Zone. <i>Plant Physiology</i> , 2015, 169, 1382-1396.	4.8	178
41	Facing the Future: Effects of Short-Term Climate Extremes on Isoprene-Emitting and Nonemitting Poplar. <i>Plant Physiology</i> , 2015, 169, 560-575.	4.8	33
42	High environmental ammonia elicits differential oxidative stress and antioxidant responses in five different organs of a model estuarine teleost ( <i>Dicentrarchus labrax</i> ). <i>Comparative Biochemistry and Physiology Part - C: Toxicology and Pharmacology</i> , 2015, 174-175, 21-31.	2.6	31
43	Immunization reduces vocal communication but does not increase oxidative stress in a songbird species. <i>Behavioral Ecology and Sociobiology</i> , 2015, 69, 829-839.	1.4	9
44	Elevated CO <sub>2</sub> mitigates drought and temperature-induced oxidative stress differently in grasses and legumes. <i>Plant Science</i> , 2015, 231, 1-10.	3.6	151
45	Anti-Oxidative Defences Are Modulated Differentially in Three Freshwater Teleosts in Response to Ammonia-Induced Oxidative Stress. <i>PLoS ONE</i> , 2014, 9, e95319.	2.5	102
46	Climate Extreme Effects on the Chemical Composition of Temperate Grassland Species under Ambient and Elevated CO <sub>2</sub> : A Comparison of Fructan and Non-Fructan Accumulators. <i>PLoS ONE</i> , 2014, 9, e92044.	2.5	84
47	Physiological, biochemical, and genome-wide transcriptional analysis reveals that elevated CO <sub>2</sub> mitigates the impact of combined heat wave and drought stress in <i>Arabidopsis thaliana</i> at multiple organizational levels. <i>Global Change Biology</i> , 2014, 20, 3670-3685.	9.5	152
48	High clay content accelerates the decomposition of fresh organic matter in artificial soils. <i>Soil Biology and Biochemistry</i> , 2014, 77, 100-108.	8.8	89
49	Variation in leaf flushing date influences autumnal senescence and next year's flushing date in two temperate tree species. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2014, 111, 7355-7360.	7.1	254
50	The thiol compounds glutathione and homogluthathione differentially affect cell development in alfalfa ( <i>Medicago sativa</i> L.). <i>Plant Physiology and Biochemistry</i> , 2014, 74, 16-23.	5.8	22
51	A Novel Protective Function for Cytokinin in the Light Stress Response Is Mediated by the ARABIDOPSIS HISTIDINE KINASE2 and ARABIDOPSIS HISTIDINE KINASE3 Receptors. <i>Plant Physiology</i> , 2014, 164, 1470-1483.	4.8	96
52	Dihydrolipoic acid reduces cytochrome b561 proteins. <i>European Biophysics Journal</i> , 2013, 42, 159-168.	2.2	8
53	Ability of ellagic acid to alleviate osmotic stress on chickpea seedlings. <i>Plant Physiology and Biochemistry</i> , 2013, 71, 173-183.	5.8	61
54	Cytochromes b561: Ascorbate-Mediated Trans-Membrane Electron Transport. <i>Antioxidants and Redox Signaling</i> , 2013, 19, 1026-1035.	5.4	85

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55	Regulation of amino acid metabolism as a defensive strategy in the brain of three freshwater teleosts in response to high environmental ammonia exposure. <i>Aquatic Toxicology</i> , 2013, 130-131, 86-96.	4.0	90
56	The response of the foliar antioxidant system and stable isotopes ( $\delta^{13}\text{C}$ and $\delta^{15}\text{N}$ ) of white willow to low-level air pollution. <i>Plant Physiology and Biochemistry</i> , 2013, 67, 154-161.	5.8	8
57	The Inter-Relationship of Ascorbate Transport, Metabolism and Mitochondrial, Plastidic Respiration. <i>Antioxidants and Redox Signaling</i> , 2013, 19, 1036-1044.	5.4	43
58	Effect of elevated CO <sub>2</sub> and temperature on the oxidative stress response to drought in <i>Lolium perenne</i> L. and <i>Medicago sativa</i> L.. <i>Plant Physiology and Biochemistry</i> , 2012, 59, 55-62.	5.8	61
59	Molecules tell stories: Reactive Oxygen, Nitrogen, Carbonyl and Sulfur Species take center stage. <i>Plant Physiology and Biochemistry</i> , 2012, 59, 1-2.	5.8	8
60	Axial ligation of the high-potential heme center in an Arabidopsis cytochrome b 561. <i>FEBS Letters</i> , 2011, 585, 545-548.	2.8	10
61	Spectral characterization of the recombinant mouse tumor suppressor 101F6 protein. <i>European Biophysics Journal</i> , 2010, 39, 1129-1142.	2.2	10
62	Cadmium and zinc-mediated oxidative burst in tobacco BY-2 cell suspension cultures. <i>Acta Physiologiae Plantarum</i> , 2009, 31, 43-49.	2.1	18
63	An Arabidopsis cytochrome b561 with trans-membrane ferri-reductase capability. <i>FEBS Letters</i> , 2007, 581, 1505-1508.	2.8	39
64	An ascorbate-reducible cytochrome b561 is localized in macrophage lysosomes. <i>Biochimica Et Biophysica Acta - General Subjects</i> , 2006, 1760, 1903-1913.	2.4	46
65	Three mammalian cytochromes b561 are ascorbate-dependent ferri-reductases. <i>FEBS Journal</i> , 2006, 273, 3722-3734.	4.7	56
66	Human Erythrocyte Membranes Contain a Cytochrome b561 That May Be Involved in Extracellular Ascorbate Recycling. <i>Journal of Biological Chemistry</i> , 2006, 281, 39852-39859.	3.4	83
67	Other factors than apoplastic ascorbate contribute to the differential ozone tolerance of two clones of <i>Trifolium repens</i> L.. <i>Plant, Cell and Environment</i> , 2005, 28, 623-632.	5.7	60
68	Heterologous expression and site-directed mutagenesis of an ascorbate-reducible cytochrome b561. <i>Archives of Biochemistry and Biophysics</i> , 2005, 443, 82-92.	3.0	32
69	Tomato Phospholipid Hydroperoxide Glutathione Peroxidase Inhibits Cell Death Induced by Bax and Oxidative Stresses in Yeast and Plants. <i>Plant Physiology</i> , 2004, 135, 1630-1641.	4.8	132
70	Localization of an Ascorbate-Reducible Cytochrome b561 in the Plant Tonoplast. <i>Plant Physiology</i> , 2004, 134, 726-734.	4.8	47
71	Dehydroascorbate Influences the Plant Cell Cycle through a Glutathione-Independent Reduction Mechanism. <i>Plant Physiology</i> , 2004, 134, 1479-1487.	4.8	188
72	Tissue-specific expression and developmental regulation of cytochrome b561 genes in <i>Arabidopsis thaliana</i> and <i>Raphanus sativus</i> . <i>Physiologia Plantarum</i> , 2004, 120, 312-318.	5.2	9

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73	Facilitated glucose and dehydroascorbate transport in plant mitochondria. Archives of Biochemistry and Biophysics, 2004, 428, 73-80.	3.0	48
74	Analysis of an Arabidopsis thaliana protein family, structurally related to cytochromes b 561 and potentially involved in catecholamine biochemistry in plants. Journal of Plant Physiology, 2004, 161, 175-181.	3.5	22
75	Structure prediction for the di-heme cytochrome b 561 protein family. Protoplasma, 2003, 221, 31-40.	2.1	40
76	Soluble proteins, an often overlooked contaminant in plasma membrane preparations. Trends in Plant Science, 2003, 8, 250-251.	8.8	17
77	A phylogenetic study of cytochrome b561 proteins. Genome Biology, 2003, 4, R38.	9.6	54
78	The Role of Auxin, pH, and Stress in the Activation of Embryogenic Cell Division in Leaf Protoplast-Derived Cells of Alfalfa. Plant Physiology, 2002, 129, 1807-1819.	4.8	316
79	Ascorbate and glutathione: guardians of the cell cycle, partners in crime?. Plant Physiology and Biochemistry, 2002, 40, 537-548.	5.8	240
80	Higher-plant plasma membrane cytochromeb 561: A protein in search of a function. Protoplasma, 2001, 217, 77-93.	2.1	41
81	Ascorbate function and associated transport systems in plants. Plant Physiology and Biochemistry, 2000, 38, 531-540.	5.8	199
82	Arabidopsis thaliana sequence analysis confirms the presence of cyt b-561 in plants: Evidence for a novel protein family. Plant Physiology and Biochemistry, 2000, 38, 905-912.	5.8	14
83	Ascorbate and Dehydroascorbate Influence Cell Cycle Progression in a Tobacco Cell Suspension. Plant Physiology, 2000, 124, 17-20.	4.8	101
84	Transport and action of ascorbate at the plant plasma membrane. Trends in Plant Science, 2000, 5, 263-267.	8.8	275
85	Purification of cytochrome b-561 from bean hypocotyls plasma membrane. Evidence for the presence of two heme centers. Biochimica Et Biophysica Acta - Biomembranes, 2000, 1468, 1-5.	2.6	29
86	Carrier mediated uptake of dehydroascorbate into higher plant plasma membrane vesicles shows trans-stimulation. FEBS Letters, 1998, 421, 41-44.	2.8	43
87	BLUE LIGHT PERCEPTION BY ENDOGENOUS REDOX COMPONENTS OF THE PLANT PLASMA MEMBRANE. Photochemistry and Photobiology, 1995, 61, 518-522.	2.5	20
88	<i>b</i> -Type Cytochromes in Higher Plant Plasma Membranes. Plant Physiology, 1989, 90, 1077-1083.	4.8	62
89	Heterogeneity of auxin-accumulating membrane vesicles from Cucurbita and Zea: a possible reflection of cell polarity. Planta, 1989, 177, 304-311.	3.2	34
90	Antioxidant Molecules and Redox Cofactors. , 0, , 11-47.		5