

# Ismail Turkan

## List of Publications by Year in Descending Order

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The third column is the impact factor (IF) of the journal, and the fourth column is the number of citations of the article.

84  
papers

5,441  
citations

35  
h-index

73  
g-index

89  
ext. papers

6,291  
ext. citations

4.4  
avg, IF

6.11  
L-index

#	Paper	IF	Citations
84	Nanomaterial sulfonated graphene oxide advances the tolerance against nitrate and ammonium toxicity by regulating chloroplastic redox balance, photochemistry of photosystems and antioxidant capacity in <i>Triticum aestivum</i> . <i>Journal of Hazardous Materials</i> , <b>2022</b> , 424, 127310	12.8	2
83	Induced accumulation of chloroplastic and mitochondrial reactive oxygen species (ROS) differentially regulates the enzymatic antioxidant system of C3 <i>Flaveria robusta</i> and C4 <i>F. bidentis</i> . <i>Environmental and Experimental Botany</i> , <b>2022</b> , 198, 104863	5.9	
82	Day and Night Fluctuations in GABA Biosynthesis Contribute to Drought Responses in <i>L. Plant Signaling and Behavior</i> , <b>2021</b> , 16, 1899672	2.5	1
81	Three (Turkish) olive cultivars display contrasting salt stress-coping mechanisms under high salinity. <i>Trees - Structure and Function</i> , <b>2021</b> , 35, 1283-1298	2.6	2
80	Differential responses of the scavenging systems for reactive oxygen species (ROS) and reactive carbonyl species (RCS) to UV-B irradiation in <i>Arabidopsis thaliana</i> and its high altitude perennial relative <i>Arabis alpina</i> . <i>Photochemical and Photobiological Sciences</i> , <b>2021</b> , 20, 889-901	4.2	1
79	Melatonin mitigates UV-B stress via regulating oxidative stress response, cellular redox and alternative electron sinks in <i>Arabidopsis thaliana</i> . <i>Phytochemistry</i> , <b>2021</b> , 182, 112592	4	9
78	Pretreatment of seeds with hydrogen peroxide improves deep-sowing tolerance of wheat seedlings. <i>Plant Physiology and Biochemistry</i> , <b>2021</b> , 167, 321-336	5.4	2
77	Naringenin induces tolerance to salt/osmotic stress through the regulation of nitrogen metabolism, cellular redox and ROS scavenging capacity in bean plants. <i>Plant Physiology and Biochemistry</i> , <b>2020</b> , 157, 264-275	5.4	6
76	Flavonoid Naringenin Alleviates Short-Term Osmotic and Salinity Stresses Through Regulating Photosynthetic Machinery and Chloroplastic Antioxidant Metabolism in. <i>Frontiers in Plant Science</i> , <b>2020</b> , 11, 682	6.2	12
75	Plant response to salinity: an analysis of ROS formation, signaling, and antioxidant defense. <i>Turkish Journal of Botany</i> , <b>2020</b> , 44, 1-13	1.3	23
74	Deploying root microbiome of halophytes to improve salinity tolerance of crops. <i>Plant Biotechnology Reports</i> , <b>2020</b> , 14, 143-150	2.5	3
73	Hydrogen sulfide (HS) and nitric oxide (NO) alleviate cobalt toxicity in wheat ( <i>Triticum aestivum</i> L.) by modulating photosynthesis, chloroplastic redox and antioxidant capacity. <i>Journal of Hazardous Materials</i> , <b>2020</b> , 388, 122061	12.8	30
72	The involvement of gamma-aminobutyric acid shunt in the endoplasmic reticulum stress response of <i>Arabidopsis thaliana</i> . <i>Journal of Plant Physiology</i> , <b>2020</b> , 253, 153250	3.6	1
71	Opportunities and Limitations of Crop Phenotyping in Southern European Countries. <i>Frontiers in Plant Science</i> , <b>2019</b> , 10, 1125	6.2	21
70	The roles of reactive carbonyl species in induction of antioxidant defence and ROS signalling in extreme halophytic model <i>Eutrema parvulum</i> and glycophytic model <i>Arabidopsis thaliana</i> . <i>Environmental and Experimental Botany</i> , <b>2019</b> , 160, 81-91	5.9	16
69	Lipid peroxidation-derived reactive carbonyl species (RCS): Their interaction with ROS and cellular redox during environmental stresses. <i>Environmental and Experimental Botany</i> , <b>2019</b> , 165, 139-149	5.9	52
68	Understanding the Role of the Antioxidant System and the Tetrapyrrole Cycle in Iron Deficiency Chlorosis. <i>Plants</i> , <b>2019</b> , 8,	4.5	18

67	Is there a room for GABA in ROS and RNS signalling?. <i>Environmental and Experimental Botany</i> , <b>2019</b> , 161, 67-73	5.9	16
66	Ferulic acid confers tolerance against excess boron by regulating ROS levels and inducing antioxidant system in wheat leaves ( <i>Triticum aestivum</i> ). <i>Environmental and Experimental Botany</i> , <b>2019</b> , 161, 193-202	5.9	14
65	Reactive oxygen species and redox regulation in mesophyll and bundle sheath cells of C4 plants. <i>Journal of Experimental Botany</i> , <b>2018</b> , 69, 3321-3331	7	19
64	Interplay between the unfolded protein response and reactive oxygen species: a dynamic duo. <i>Journal of Experimental Botany</i> , <b>2018</b> , 69, 3333-3345	7	40
63	NAC transcription factor JUNGBRUNNEN1 enhances drought tolerance in tomato. <i>Plant Biotechnology Journal</i> , <b>2018</b> , 16, 354-366	11.6	118
62	Endoplasmic reticulum stress regulates glutathione metabolism and activities of glutathione related enzymes in Arabidopsis. <i>Functional Plant Biology</i> , <b>2018</b> , 45, 284-296	2.7	15
61	Changes in redox regulation during transition from C to single cell C photosynthesis in <i>Bienertia sinuspersici</i> . <i>Journal of Plant Physiology</i> , <b>2018</b> , 220, 1-10	3.6	6
60	Growth performance and antioxidative response in bread and durum wheat plants grown with varied potassium treatments under ambient and elevated carbon dioxide. <i>Environmental and Experimental Botany</i> , <b>2017</b> , 137, 26-35	5.9	5
59	Mg deficiency changes the isoenzyme pattern of reactive oxygen species-related enzymes and regulates NADPH-oxidase-mediated ROS signaling in cotton. <i>Turkish Journal of Biology</i> , <b>2017</b> , 41, 868-880	3.1	8
58	The Effects of Melatonin on Transcriptional Profile of Unfolded Protein Response Genes Under Endoplasmic Reticulum Stress in Arabidopsis thaliana. <i>Plant Molecular Biology Reporter</i> , <b>2017</b> , 35, 188-202	1.7	7
57	Redox- and Reactive Oxygen Species-Dependent Signaling into and out of the Photosynthesizing Chloroplast. <i>Plant Physiology</i> , <b>2016</b> , 171, 1541-50	6.6	243
56	Halophytes as a source of salt tolerance genes and mechanisms: a case study for the Salt Lake area, Turkey. <i>Functional Plant Biology</i> , <b>2016</b> , 43, 575-589	2.7	16
55	The effects of induced production of reactive oxygen species in organelles on endoplasmic reticulum stress and on the unfolded protein response in arabidopsis. <i>Annals of Botany</i> , <b>2015</b> , 116, 541-553	4.1	58
54	The impact of GABA in harpin-elicited biotic stress responses in <i>Nicotiana tabacum</i> . <i>Journal of Plant Physiology</i> , <b>2015</b> , 188, 51-7	3.6	13
53	Redox Regulation and Antioxidant Defence During Abiotic Stress: What Have We Learned from Arabidopsis and Its Relatives? <b>2015</b> , 83-113		7
52	Changes in the alternative electron sinks and antioxidant defence in chloroplasts of the extreme halophyte <i>Eutrema parvulum</i> ( <i>Thellungiella parvula</i> ) under salinity. <i>Annals of Botany</i> , <b>2015</b> , 115, 449-63	4.1	46
51	Glycine betaine protects tomato ( <i>Solanum lycopersicum</i> ) plants at low temperature by inducing fatty acid desaturase7 and lipoxygenase gene expression. <i>Molecular Biology Reports</i> , <b>2014</b> , 41, 1401-10	2.8	52
50	Reactive oxygen species scavenging capacities of cotton ( <i>Gossypium hirsutum</i> ) cultivars under combined drought and heat induced oxidative stress. <i>Environmental and Experimental Botany</i> , <b>2014</b> , 99, 141-149	5.9	102

49	Strategies of ROS regulation and antioxidant defense during transition from C <sub>3</sub> to C <sub>4</sub> photosynthesis in the genus <i>Flaveria</i> under PEG-induced osmotic stress. <i>Journal of Plant Physiology</i> , <b>2014</b> , 171, 65-75	3.6	34
48	Endoplasmic reticulum stress triggers ROS signalling, changes the redox state, and regulates the antioxidant defence of <i>Arabidopsis thaliana</i> . <i>Journal of Experimental Botany</i> , <b>2014</b> , 65, 1377-90	7	105
47	Induced anti-oxidant activity in soybean alleviates oxidative stress under moderate boron toxicity. <i>Plant Growth Regulation</i> , <b>2013</b> , 70, 217-226	3.2	29
46	Current Concepts about Salinity and Salinity Tolerance in Plants <b>2013</b> , 163-188		2
45	Effect of Coronatine on Antioxidant Enzyme Response of Chickpea Roots to Combination of PEG-Induced Osmotic Stress and Heat Stress. <i>Journal of Plant Growth Regulation</i> , <b>2013</b> , 32, 72-82	4.7	20
44	Combined effects of salt stress and cucurbit downy mildew ( <i>Pseudoperospora cubensis</i> Berk. and Curt. Rostov.) infection on growth, physiological traits and antioxidant activity in cucumber ( <i>Cucumis sativus</i> L.) seedlings. <i>Physiological and Molecular Plant Pathology</i> , <b>2013</b> , 83, 84-92	2.6	15
43	A novel mechanism of aluminum-induced cell death involving vacuolar processing enzyme and vacuolar collapse in tobacco cell line BY-2. <i>Journal of Inorganic Biochemistry</i> , <b>2013</b> , 128, 196-201	4.2	28
42	The regulation of antioxidant enzymes in two <i>Plantago</i> species differing in salinity tolerance under combination of waterlogging and salinity. <i>Functional Plant Biology</i> , <b>2013</b> , 40, 484-493	2.7	20
41	Reactive oxygen species regulation and antioxidant defence in halophytes. <i>Functional Plant Biology</i> , <b>2013</b> , 40, 832-847	2.7	188
40	Time course analysis of ABA and non-ionic osmotic stress-induced changes in water status, chlorophyll fluorescence and osmotic adjustment in <i>Arabidopsis thaliana</i> wild-type (Columbia) and ABA-deficient mutant ( <i>aba2</i> ). <i>Environmental and Experimental Botany</i> , <b>2013</b> , 86, 44-51	5.9	21
39	Different antioxidant defense responses to salt stress during germination and vegetative stages of endemic halophyte <i>Gypsophila oblaeolata</i> Bark.. <i>Environmental and Experimental Botany</i> , <b>2012</b> , 77, 63-76	5.9	86
38	Abscisic acid-regulated responses of <i>aba2-1</i> under osmotic stress: the abscisic acid-inducible antioxidant defence system and reactive oxygen species production. <i>Plant Biology</i> , <b>2012</b> , 14, 337-46	3.7	35
37	Comparison of ROS formation and antioxidant enzymes in <i>Cleome gynandra</i> (C <sub>2</sub> ) and <i>Cleome spinosa</i> (C <sub>3</sub> ) under drought stress. <i>Plant Science</i> , <b>2012</b> , 182, 59-70	5.3	108
36	Contribution of Gamma amino butyric acid (GABA) to salt stress responses of <i>Nicotiana sylvestris</i> CMSII mutant and wild type plants. <i>Journal of Plant Physiology</i> , <b>2012</b> , 169, 452-8	3.6	87
35	Signalling Strategies During Drought and Salinity, Recent News. <i>Advances in Botanical Research</i> , <b>2011</b> , 57, 293-317	2.2	10
34	Elucidation of physiological and biochemical mechanisms of an endemic halophyte <i>Centaurea tuzgoluensis</i> under salt stress. <i>Plant Physiology and Biochemistry</i> , <b>2011</b> , 49, 816-24	5.4	52
33	The role of antioxidant defense systems at differential salt tolerance of <i>Hordeum marinum</i> Huds. (sea barleygrass) and <i>Hordeum vulgare</i> L. (cultivated barley). <i>Environmental and Experimental Botany</i> , <b>2010</b> , 69, 76-85	5.9	87
32	Physiochemical and antioxidant responses of the perennial xerophyte <i>Capparis ovata</i> Desf. to drought. <i>Environmental and Experimental Botany</i> , <b>2009</b> , 66, 487-492	5.9	123

31	Recent developments in understanding salinity tolerance. <i>Environmental and Experimental Botany</i> , <b>2009</b> , 67, 2-9	5.9	366
30	The effects of boron toxicity on root antioxidant systems of two chickpea ( <i>Cicer arietinum</i> L.) cultivars. <i>Plant and Soil</i> , <b>2009</b> , 314, 99-108	4.2	27
29	Identification and Characterization of the Glucosinolate Myrosinase System in Caper ( <i>Capparis ovata</i> Desf.). <i>Plant Molecular Biology Reporter</i> , <b>2009</b> , 27, 518-525	1.7	11
28	Comparative effects of drought, salt, heavy metal and heat stresses on gamma-aminobutyric acid levels of sesame ( <i>Sesamum indicum</i> L.). <i>Acta Physiologiae Plantarum</i> , <b>2009</b> , 31, 655-659	2.6	69
27	An Enhancing Effect of Exogenous Mannitol on the Antioxidant Enzyme Activities in Roots of Wheat Under Salt Stress. <i>Journal of Plant Growth Regulation</i> , <b>2009</b> , 28, 12-20	4.7	118
26	Antioxidant responses of chickpea plants subjected to boron toxicity. <i>Plant Biology</i> , <b>2009</b> , 11, 328-38	3.7	57
25	NaCl pre-treatments mediate salt adaptation in melon plants through antioxidative system. <i>Seed Science and Technology</i> , <b>2008</b> , 36, 360-370	0.6	13
24	Response of the cherry rootstock to water stress induced in vitro. <i>Biologia Plantarum</i> , <b>2008</b> , 52, 573-576	2.1	42
23	Differential responses of antioxidative enzymes and lipid peroxidation to salt stress in salt-tolerant <i>Plantago maritima</i> and salt-sensitive <i>Plantago media</i> . <i>Physiologia Plantarum</i> , <b>2007</b> , 131, 399-411	4.6	224
22	The effect of salt stress on lipid peroxidation, antioxidative enzymes and proline content of sesame cultivars. <i>Environmental and Experimental Botany</i> , <b>2007</b> , 60, 344-351	5.9	312
21	Salinity tolerance of purslane ( <i>Portulaca oleracea</i> L.) is achieved by enhanced antioxidative system, lower level of lipid peroxidation and proline accumulation. <i>Environmental and Experimental Botany</i> , <b>2007</b> , 61, 49-57	5.9	158
20	Responses of the cherry rootstock to salinity in vitro. <i>Biologia Plantarum</i> , <b>2007</b> , 51, 597-600	2.1	32
19	Exogenous glycinebetaine affects growth and proline accumulation and retards senescence in two rice cultivars under NaCl stress. <i>Environmental and Experimental Botany</i> , <b>2006</b> , 56, 72-79	5.9	105
18	Effect of salt stress on lipid peroxidation and superoxide dismutase and peroxidase activities of <i>Lycopersicon esculentum</i> and <i>L. pennellii</i> . <i>Biologia Plantarum</i> , <b>2006</b> , 50, 745-748	2.1	77
17	Differential responses of lipid peroxidation and antioxidants in the leaves of drought-tolerant <i>P. acutifolius</i> Gray and drought-sensitive <i>P. vulgaris</i> L. subjected to polyethylene glycol mediated water stress. <i>Plant Science</i> , <b>2005</b> , 168, 223-231	5.3	328
16	Comparative lipid peroxidation, antioxidant defense systems and proline content in roots of two rice cultivars differing in salt tolerance. <i>Environmental and Experimental Botany</i> , <b>2005</b> , 53, 247-257	5.9	459
15	Effects of 24-epibrassinolide on seed germination, seedling growth, lipid peroxidation, proline content and antioxidative system of rice ( <i>Oryza sativa</i> L.) under salinity stress. <i>Plant Growth Regulation</i> , <b>2004</b> , 42, 203-211	3.2	182
14	Does exogenous glycinebetaine affect antioxidative system of rice seedlings under NaCl treatment?. <i>Journal of Plant Physiology</i> , <b>2004</b> , 161, 1089-100	3.6	142

13	Effects of salinity, light, and temperature on seed germination in a Turkish endangered halophyte, <i>Kalidiopsis wagenitzii</i> (Chenopodiaceae). <i>Israel Journal of Plant Sciences</i> , <b>2004</b> , 52, 21-30	0.6	6
12	THE EFFECT OF HARPINEA AS PLANT ACTIVATOR IN CONTROL OF BACTERIAL AND FUNGAL DISEASES OF TOMATO. <i>Acta Horticulturae</i> , <b>2003</b> , 251-254	0.3	6
11	Effects of Paclobutrazol on Response of Two Barley Cultivars to Salt Stress. <i>Biologia Plantarum</i> , <b>2003</b> , 46, 263-268	2.1	20
10	The effect of salt stress on lipid peroxidation and antioxidants in leaves of sugar beet <i>Beta vulgaris</i> L. and wild beet <i>Beta maritima</i> L.. <i>Plant Science</i> , <b>2003</b> , 164, 77-84	5.3	395
9	Indoleacetic acid, gibberellic acid, zeatin, and abscisic acid levels in NaCl-treated tomato species differing in salt tolerance. <i>Israel Journal of Plant Sciences</i> , <b>2001</b> , 49, 269-278	0.6	13
8	Superoxide dismutase and peroxidase activities in drought sensitive and resistant barley ( <i>Hordeum vulgare</i> L.) varieties. <i>Acta Physiologiae Plantarum</i> , <b>2001</b> , 23, 351-356	2.6	88
7	Transgenic bialaphos-resistant snapdragon ( <i>Antirrhinum majus</i> L.) produced by <i>Agrobacterium rhizogenes</i> transformation. <i>Scientia Horticulturae</i> , <b>1998</b> , 76, 37-57	4.1	5
6	Comparison of moss and bark samples as biomonitors of heavy metals in a highly industrialised area in Izmir, Turkey. <i>Science of the Total Environment</i> , <b>1995</b> , 166, 61-67	10.2	52
5	Survey of endogenous gibberellins in a barley mutant showing abnormal response to gravity.. <i>Japanese Journal of Genetics</i> , <b>1991</b> , 66, 41-48		3
4	Can Plants Normally Produce Seeds under Microgravity in Space?. <i>Japanese Journal of Crop Science</i> , <b>1991</b> , 60, 427-433	0.1	8
3	Localization of High Concentration of Gibberellins in Elongating Internodes of Floating Rice.. <i>Breeding Science</i> , <b>1991</b> , 41, 553-559		
2	Endogenous gibberellin relationships in internode elongation of floating rice: A genetic study.. <i>Japanese Journal of Genetics</i> , <b>1990</b> , 65, 183-191		2
1	Redox regulation in C 3 and C 4 plants during climate change and its implications on food security. <i>Food and Energy Security</i> ,	4.1	0