

Hamada R Abdelgawad

List of Publications by Year in descending order

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156
papers

5,464
citations

81900

39
h-index

110387

64
g-index

157
all docs

157
docs citations

157
times ranked

6054
citing authors

| # | ARTICLE | IF | CITATIONS |
|----|---|-----|-----------|
| 1 | 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 |
| 2 | 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 |
| 3 | 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 |
| 4 | 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 |
| 5 | Physiological, biochemical, and genome-wide transcriptional analysis reveals that elevated CO_2 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 |
| 6 | Elevated CO_2 mitigates drought and temperature-induced oxidative stress differently in grasses and legumes. <i>Plant Science</i> , 2015, 231, 1-10. | 3.6 | 151 |
| 7 | Physiological and biochemical responses of soybean plants inoculated with Arbuscular mycorrhizal fungi and <i>Bradyrhizobium</i> under drought stress. <i>BMC Plant Biology</i> , 2021, 21, 195. | 3.6 | 119 |
| 8 | Silicon dioxide nanoparticles ameliorate the phytotoxic hazards of aluminum in maize grown on acidic soil. <i>Science of the Total Environment</i> , 2019, 693, 133636. | 8.0 | 113 |
| 9 | 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 |
| 10 | Sensitivity of two green microalgae to copper stress: Growth, oxidative and antioxidants analyses. <i>Ecotoxicology and Environmental Safety</i> , 2017, 144, 19-25. | 6.0 | 111 |
| 11 | 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 |
| 12 | 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 |
| 13 | 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 |
| 14 | 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 |
| 15 | Climate Extreme Effects on the Chemical Composition of Temperate Grassland Species under Ambient and Elevated CO_2 : A Comparison of Fructan and Non-Fructan Accumulators. <i>PLoS ONE</i> , 2014, 9, e92044. | 2.5 | 84 |
| 16 | Screening for drought tolerance of maize hybrids by multi-scale analysis of root and shoot traits at the seedling stage. <i>Journal of Experimental Botany</i> , 2016, 67, 2453-2466. | 4.8 | 84 |
| 17 | UV-B Inhibits Leaf Growth through Changes in Growth Regulating Factors and Gibberellin Levels. <i>Plant Physiology</i> , 2017, 174, 1110-1126. | 4.8 | 79 |
| 18 | Thermal acclimation of organic matter decomposition in an artificial forest soil is related to shifts in microbial community structure. <i>Soil Biology and Biochemistry</i> , 2014, 71, 1-12. | 8.8 | 77 |

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|----|---|------|-----------|
| 19 | 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 |
| 20 | 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 |
| 21 | Future Climate CO ₂ Levels Mitigate Stress Impact on Plants: Increased Defense or Decreased Challenge?. <i>Frontiers in Plant Science</i> , 2016, 7, 556. | 3.6 | 74 |
| 22 | Biomarkers for grain yield stability in rice under drought stress. <i>Journal of Experimental Botany</i> , 2020, 71, 669-683. | 4.8 | 71 |
| 23 | Dynamics of metabolic responses to periods of combined heat and drought in <i>Arabidopsis thaliana</i> under ambient and elevated atmospheric CO ₂ . <i>Journal of Experimental Botany</i> , 2018, 69, 2159-2170. | 4.8 | 67 |
| 24 | Elevated CO ₂ induces a global metabolic change in basil (<i>Ocimum basilicum</i> L.) and peppermint (<i>Mentha</i>) Tj ETQq0,0,0 rgBT /Overlock 1 | 3.5 | 67 |
| 25 | 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 |
| 26 | Experimental evidence that oxidative stress influences reproductive decisions. <i>Functional Ecology</i> , 2016, 30, 1169-1174. | 3.6 | 62 |
| 27 | Ability of ellagic acid to alleviate osmotic stress on chickpea seedlings. <i>Plant Physiology and Biochemistry</i> , 2013, 71, 173-183. | 5.8 | 61 |
| 28 | 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 |
| 29 | Actinomycetes Enrich Soil Rhizosphere and Improve Seed Quality as well as Productivity of Legumes by Boosting Nitrogen Availability and Metabolism. <i>Biomolecules</i> , 2020, 10, 1675. | 4.0 | 54 |
| 30 | Physiological and molecular alterations in plants exposed to high [CO ₂] under phosphorus stress. <i>Biotechnology Advances</i> , 2015, 33, 303-316. | 11.7 | 53 |
| 31 | 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 |
| 32 | Unveiling the Redox Control of Plant Reproductive Development during Abiotic Stress. <i>Frontiers in Plant Science</i> , 2016, 7, 700. | 3.6 | 50 |
| 33 | NiO-nanoparticles induce reduced phytotoxic hazards in wheat (<i>Triticum aestivum</i> L.) grown under future climate CO ₂ . <i>Chemosphere</i> , 2019, 220, 1047-1057. | 8.2 | 50 |
| 34 | CO ₂ enrichment can enhance the nutritional and health benefits of parsley (<i>Petroselinum crispum</i> L.) and dill (<i>Anethum graveolens</i> L.). <i>Food Chemistry</i> , 2018, 269, 519-526. | 8.2 | 49 |
| 35 | 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 & Integrative Physiology</i> , 2017, 210, 14-21. | 1.8 | 48 |
| 36 | Future climate alleviates stress impact on grassland productivity through altered antioxidant capacity. <i>Environmental and Experimental Botany</i> , 2014, 99, 150-158. | 4.2 | 45 |

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|----|--|------|-----------|
| 37 | 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 |
| 38 | Elevated CO ₂ improves glucosinolate metabolism and stimulates anticancer and anti-inflammatory properties of broccoli sprouts. <i>Food Chemistry</i> , 2020, 328, 127102. | 8.2 | 44 |
| 39 | Global metabolic changes induced by arbuscular mycorrhizal fungi in oregano plants grown under ambient and elevated levels of atmospheric CO ₂ . <i>Plant Physiology and Biochemistry</i> , 2020, 151, 255-263. | 5.8 | 43 |
| 40 | 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 |
| 41 | CuO loaded ZnS nanoflower entrapped on PVA-chitosan matrix for boosted visible light photocatalysis for tetracycline degradation and anti-bacterial application. <i>Journal of Environmental Management</i> , 2022, 306, 114396. | 7.8 | 41 |
| 42 | Arbuscular Mycorrhizae Mitigate Aluminum Toxicity and Regulate Proline Metabolism in Plants Grown in Acidic Soil. <i>Journal of Fungi (Basel, Switzerland)</i> , 2021, 7, 531. | 3.5 | 39 |
| 43 | Utilization of actinobacteria to enhance the production and quality of date palm (<i>Phoenix dactylifera</i>) Tj ETQq1 1 0,784314 rgBT /Ove | 8.0 | 37 |
| 44 | 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 |
| 45 | Increasing atmospheric CO ₂ differentially supports arsenite stress mitigating impact of arbuscular mycorrhizal fungi in wheat and soybean plants. <i>Chemosphere</i> , 2022, 296, 134044. | 8.2 | 36 |
| 46 | Oxidative Metabolism of Rye (<i>Secale cereale</i> L.) after Short Term Exposure to Aluminum: Uncovering the Glutathione-Ascorbate Redox Network. <i>Frontiers in Plant Science</i> , 2016, 7, 685. | 3.6 | 34 |
| 47 | Perfluoroalkyl Acids (PFAAs) Concentrations and Oxidative Status in Two Generations of Great Tits Inhabiting a Contamination Hotspot. <i>Environmental Science & Technology</i> , 2019, 53, 1617-1626. | 10.0 | 34 |
| 48 | Interactive Impact of Arbuscular Mycorrhizal Fungi and Elevated CO ₂ on Growth and Functional Food Value of <i>Thymus vulgare</i> . <i>Journal of Fungi (Basel, Switzerland)</i> , 2020, 6, 168. | 3.5 | 34 |
| 49 | Actinobacterium isolated from a semi-arid environment improves the drought tolerance in maize (<i>Zea</i>) Tj ETQq1 1 0,784314 rgBT /Ove | 5.8 | 33 |
| 50 | Exploring the potential of actinomycetes in improving soil fertility and grain quality of economically important cereals. <i>Science of the Total Environment</i> , 2019, 651, 2787-2798. | 8.0 | 33 |
| 51 | Integrating Network Pharmacology and Molecular Docking Approaches to Decipher the Multi-Target Pharmacological Mechanism of <i>Abrus precatorius</i> L. Acting on Diabetes. <i>Pharmaceuticals</i> , 2022, 15, 414. | 3.8 | 32 |
| 52 | 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 |
| 53 | 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 |
| 54 | Physiological and biochemical responses to aluminum-induced oxidative stress in two cyanobacterial species. <i>Environmental Pollution</i> , 2019, 251, 961-969. | 7.5 | 29 |

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|----|---|------|-----------|
| 55 | The Systems Architecture of Molecular Memory in Poplar after Abiotic Stress. <i>Plant Cell</i> , 2019, 31, 346-367. | 6.6 | 29 |
| 56 | Luteolin, a bioactive flavone compound extracted from <i>Cichorium endivia</i> L. subsp. <i>divaricatum</i> alleviates the harmful effect of salinity on maize. <i>Acta Physiologiae Plantarum</i> , 2012, 34, 2165-2177. | 2.1 | 28 |
| 57 | CO2 treatment improves the hypocholesterolemic and antioxidant properties of fenugreek seeds. <i>Food Chemistry</i> , 2020, 308, 125661. | 8.2 | 28 |
| 58 | Silicon dioxide nanoparticles alleviate the threats of broomrape infection in tomato by inducing cell wall fortification and modulating ROS homeostasis. <i>Environmental Science: Nano</i> , 2020, 7, 1415-1430. | 4.3 | 28 |
| 59 | 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 |
| 60 | Laser light as a promising approach to improve the nutritional value, antioxidant capacity and anti-inflammatory activity of flavonoid-rich buckwheat sprouts. <i>Food Chemistry</i> , 2021, 345, 128788. | 8.2 | 26 |
| 61 | Soil arsenic toxicity differentially impacts C3 (barley) and C4 (maize) crops under future climate atmospheric CO2. <i>Journal of Hazardous Materials</i> , 2021, 414, 125331. | 12.4 | 26 |
| 62 | An actinomycete strain of <i>Nocardiopsis lucentensis</i> reduces arsenic toxicity in barley and maize. <i>Journal of Hazardous Materials</i> , 2021, 417, 126055. | 12.4 | 26 |
| 63 | Self-assembling of 3D layered flower architecture of BiOI modified MgCr2O4 nanosphere for wider spectrum visible-light photocatalytic degradation of rhodamine B and malachite green: Mechanism, pathway, reactive sites and toxicity prediction. <i>Journal of Environmental Management</i> , 2022, 308, 114614. | 7.8 | 26 |
| 64 | C3 and C4 plant systems respond differently to the concurrent challenges of mercuric oxide nanoparticles and future climate CO2. <i>Science of the Total Environment</i> , 2020, 749, 142356. | 8.0 | 25 |
| 65 | AtPDCD5 Plays a Role in Programmed Cell Death after UV-B Exposure in <i>Arabidopsis</i> . <i>Plant Physiology</i> , 2016, 170, 2444-2460. | 4.8 | 24 |
| 66 | 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 |
| 67 | Influence of elevated CO2 on nutritive value and health-promoting prospective of three genotypes of Alfalfa sprouts (<i>Medicago Sativa</i>). <i>Food Chemistry</i> , 2021, 340, 128147. | 8.2 | 24 |
| 68 | Haloarchaea as Cell Factories to Produce Bioplastics. <i>Marine Drugs</i> , 2021, 19, 159. | 4.6 | 24 |
| 69 | Elevated CO2 differently suppresses the arsenic oxide nanoparticles-induced stress in C3 (<i>Hordeum</i>) Tj ETQq1 1 0.784314 rgBT /Over the anthocyanin metabolism. <i>Plant Physiology and Biochemistry</i> , 2021, 166, 235-245. | 5.8 | 24 |
| 70 | Inhibition of <i>Aspergillus flavus</i> Growth and Aflatoxin Production in <i>Zea mays</i> L. Using Endophytic <i>Aspergillus fumigatus</i> . <i>Journal of Fungi (Basel, Switzerland)</i> , 2022, 8, 482. | 3.5 | 23 |
| 71 | Interactive effects of mercuric oxide nanoparticles and future climate CO2 on maize plant. <i>Journal of Hazardous Materials</i> , 2021, 401, 123849. | 12.4 | 22 |
| 72 | Potassium and calcium improve salt tolerance of <i>Thymus vulgaris</i> by activating the antioxidant systems. <i>Scientia Horticulturae</i> , 2021, 277, 109812. | 3.6 | 22 |

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|----|--|-----|-----------|
| 73 | Molecular response of <i>Sargassum vulgare</i> to acidification at volcanic CO_2 vents: insights from de novo transcriptomic analysis. <i>Molecular Ecology</i> , 2017, 26, 2276-2290. | 3.9 | 21 |
| 74 | Salicylic acid confers resistance against broomrape in tomato through modulation of C and N metabolism. <i>Plant Physiology and Biochemistry</i> , 2020, 147, 322-335. | 5.8 | 20 |
| 75 | Heavy Metal Effects on Biodiversity and Stress Responses of Plants Inhabiting Contaminated Soil in Khulais, Saudi Arabia. <i>Biology</i> , 2022, 11, 164. | 2.8 | 20 |
| 76 | Essential oils, amino acids and polyphenols changes in salt-stressed <i>Thymus vulgaris</i> exposed to open field and shade enclosure. <i>Industrial Crops and Products</i> , 2016, 91, 223-230. | 5.2 | 19 |
| 77 | Differential responses of two cyanobacterial species to R-metalaxyl toxicity: Growth, photosynthesis and antioxidant analyses. <i>Environmental Pollution</i> , 2020, 258, 113681. | 7.5 | 19 |
| 78 | Salinity Stress Enhances the Antioxidant Capacity of <i>Bacillus</i> and <i>Planococcus</i> Species Isolated From Saline Lake Environment. <i>Frontiers in Microbiology</i> , 2020, 11, 561816. | 3.5 | 19 |
| 79 | A Bioactive Fraction from <i>Streptomyces</i> sp. Enhances Maize Tolerance against Drought Stress. <i>Journal of Microbiology and Biotechnology</i> , 2020, 30, 1156-1168. | 2.1 | 19 |
| 80 | Resveratrol supplementation reduces oxidative stress and modulates the immune response in living animals during a viral infection. <i>Functional Ecology</i> , 2018, 32, 2509-2519. | 3.6 | 18 |
| 81 | Multiple mechanisms explain how reduced <i>KRP</i> expression increases leaf size of <i>Arabidopsis thaliana</i> . <i>New Phytologist</i> , 2019, 221, 1345-1358. | 7.3 | 18 |
| 82 | Nutritional Value, Phytochemical Potential, and Therapeutic Benefits of Pumpkin (<i>Cucurbita</i> sp.). <i>Plants</i> , 2022, 11, 1394. | 3.5 | 18 |
| 83 | Profiling of Antifungal Activities and In Silico Studies of Natural Polyphenols from Some Plants. <i>Molecules</i> , 2021, 26, 7164. | 3.8 | 17 |
| 84 | Withaferin A: From Ancient Remedy to Potential Drug Candidate. <i>Molecules</i> , 2021, 26, 7696. | 3.8 | 17 |
| 85 | 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 |
| 86 | Bioactive Potential of Several Actinobacteria Isolated from Microbiologically Barely Explored Desert Habitat, Saudi Arabia. <i>Biology</i> , 2021, 10, 235. | 2.8 | 16 |
| 87 | Arbuscular mycorrhizae induce a global metabolic change and improve the nutritional and health benefits of pennyroyal and parsley. <i>Acta Physiologiae Plantarum</i> , 2020, 42, 1. | 2.1 | 16 |
| 88 | Silicon dioxide nanoparticles orchestrate carbon and nitrogen metabolism in pea seedlings to cope with broomrape infection. <i>Environmental Science: Nano</i> , 2021, 8, 1960-1977. | 4.3 | 15 |
| 89 | 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 |
| 90 | <i>Sonchus oleraceus</i> Residue Improves Nutritive and Health-Promoting Value of Common Bean (<i>Phaseolus vulgaris</i> L.): A Metabolic Study. <i>Journal of Agricultural and Food Chemistry</i> , 2018, 66, 2092-2100. | 5.2 | 14 |

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|-----|---|------|-----------|
| 91 | Ocean acidification affects biological activities of seaweeds: A case study of <i>Sargassum vulgare</i> from Ischia volcanic CO ₂ vents. <i>Environmental Pollution</i> , 2020, 259, 113765. | 7.5 | 14 |
| 92 | Innovating the Synergistic Assets of Î ² -Amino Butyric Acid (BABA) and Selenium Nanoparticles (SeNPs) in Improving the Growth, Nitrogen Metabolism, Biological Activities, and Nutritive Value of <i>Medicago interexta</i> Sprouts. <i>Plants</i> , 2022, 11, 306. | 3.5 | 14 |
| 93 | Elevated CO ₂ Differentially Mitigated Oxidative Stress Induced by Indium Oxide Nanoparticles in Young and Old Leaves of C ₃ and C ₄ Crops. <i>Antioxidants</i> , 2022, 11, 308. | 5.1 | 14 |
| 94 | Pits of Date Palm: Bioactive Composition, Antibacterial Activity and Antimutagenicity Potentials. <i>Agronomy</i> , 2022, 12, 54. | 3.0 | 14 |
| 95 | How grass keeps growing: an integrated analysis of hormonal crosstalk in the maize leaf growth zone. <i>New Phytologist</i> , 2020, 225, 2513-2525. | 7.3 | 13 |
| 96 | 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 |
| 97 | Bacterial Endophytes as a Promising Approach to Enhance the Growth and Accumulation of Bioactive Metabolites of Three Species of <i>Chenopodium</i> Sprouts. <i>Plants</i> , 2021, 10, 2745. | 3.5 | 13 |
| 98 | Variation of the Chemical Composition of Essential Oils and Total Phenols Content in Natural Populations of <i>Marrubium vulgare</i> L.. <i>Plants</i> , 2022, 11, 612. | 3.5 | 13 |
| 99 | The impact of foliar fertilizers on growth and biochemical responses of <i>Thymus vulgaris</i> to salinity stress. <i>Arid Land Research and Management</i> , 2019, 33, 297-320. | 1.6 | 12 |
| 100 | Heat stress as an innovative approach to enhance the antioxidant production in <i>Pseudoocenicola</i> and <i>Bacillus</i> isolates. <i>Scientific Reports</i> , 2020, 10, 15076. | 3.3 | 12 |
| 101 | Cinnamaldehyde mitigates placental vascular dysfunction of gestational diabetes and protects from the associated fetal hypoxia by modulating placental angiogenesis, metabolic activity and oxidative stress. <i>Pharmacological Research</i> , 2021, 165, 105426. | 7.1 | 12 |
| 102 | <i>Lepidium sativum</i> Sprouts Grown under Elevated CO ₂ Hyperaccumulate Glucosinolates and Antioxidants and Exhibit Enhanced Biological and Reduced Antinutritional Properties. <i>Biomolecules</i> , 2021, 11, 1174. | 4.0 | 12 |
| 103 | Differences in Cadmium Accumulation, Detoxification and Antioxidant Defenses between Contrasting Maize Cultivars Implicate a Role of Superoxide Dismutase in Cd Tolerance. <i>Antioxidants</i> , 2021, 10, 1812. | 5.1 | 12 |
| 104 | Harnessing Endophytic Fungi for Enhancing Growth, Tolerance and Quality of Rose-Scented Geranium (<i>Pelargonium graveolens</i> (L'Î™HÃ©r) Thunb.) Plants under Cadmium Stress: A Biochemical Study. <i>Journal of Fungi</i> (Basel, Switzerland), 2021, 7, 1039. | 3.5 | 12 |
| 105 | Prioritization of contaminated watercourses using an integrated biomarker approach in caged carp. <i>Water Research</i> , 2016, 99, 129-139. | 11.3 | 11 |
| 106 | Laser Light Treatment of Seeds for Improving the Biomass Photosynthesis, Chemical Composition and Biological Activities of Lemongrass Sprouts. <i>Agronomy</i> , 2021, 11, 478. | 3.0 | 11 |
| 107 | Anti-Inflammatory Potential of Daturaolone from <i>Datura innoxia</i> Mill.: In Silico, In Vitro and In Vivo Studies. <i>Pharmaceuticals</i> , 2021, 14, 1248. | 3.8 | 11 |
| 108 | Effect of Elevated CO ₂ on Biomoleculesâ€™ Accumulation in Caraway (<i>Carum carvi</i> L.) Plants at Different Developmental Stages. <i>Plants</i> , 2021, 10, 2434. | 3.5 | 11 |

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|-----|---|------|-----------|
| 109 | Designing novel MgFe ₂ O ₄ coupled V ₂ O ₅ nanorod for synergetic photodegradation of tetracycline with enhanced visible-light energy harvesting: Photoluminescence, kinetics, intrinsic mechanism and bactericidal effect. <i>Chemosphere</i> , 2022, 296, 134012. | 8.2 | 11 |
| 110 | Provenance effect on bioactive phytochemicals and nutritional and health benefits of the desert date <i>Balanites aegyptiaca</i> . <i>Journal of Food Biochemistry</i> , 2020, 44, e13229. | 2.9 | 10 |
| 111 | Dissipation of pyridaphenthion by cyanobacteria: Insights into cellular degradation, detoxification and metabolic regulation. <i>Journal of Hazardous Materials</i> , 2021, 402, 123787. | 12.4 | 10 |
| 112 | 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 |
| 113 | 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 |
| 114 | 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 |
| 115 | Soil enrichment with actinomycete mitigates the toxicity of arsenic oxide nanoparticles on wheat and maize growth and metabolism. <i>Physiologia Plantarum</i> , 2021, 173, 978-992. | 5.2 | 9 |
| 116 | Influence of seawater acidification on biochemical composition and oxidative status of green algae <i>Ulva compressa</i> . <i>Science of the Total Environment</i> , 2022, 806, 150445. | 8.0 | 9 |
| 117 | Improved Mineral Acquisition, Sugars Metabolism and Redox Status after Mycorrhizal Inoculation Are the Basis for Tolerance to Vanadium Stress in C3 and C4 Grasses. <i>Journal of Fungi (Basel)</i> Tj ETQq1 1 0.784314 rgBTj Overlook 10 Tf 0 | 10.7 | 9 |
| 118 | Evaluation of the phycoremediation potential of microalgae for captan removal: Comprehensive analysis on toxicity, detoxification and antioxidants modulation. <i>Journal of Hazardous Materials</i> , 2022, 427, 128177. | 12.4 | 9 |
| 119 | Photodegradation of 5-fluorouracil, carvedilol, para-chlorophenol and methimazole with 3D MnWO ₄ nanoflower modified Ag ₂ WO ₄ nanorods: A non-genotoxic nanomaterial for water treatment. <i>Chemosphere</i> , 2022, 297, 134130. | 8.2 | 9 |
| 120 | Hazard assessment and environmental fate of propiconazole degradation by microalgae: Differential tolerance, antioxidant and detoxification pathway. <i>Journal of Environmental Chemical Engineering</i> , 2022, 10, 108170. | 6.7 | 9 |
| 121 | The response of the foliar antioxidant system and stable isotopes (¹³ C and ¹⁵ N) of white willow to low-level air pollution. <i>Plant Physiology and Biochemistry</i> , 2013, 67, 154-161. | 5.8 | 8 |
| 122 | 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 |
| 123 | O ₃ 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 |
| 124 | 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 |
| 125 | Mercury exposure in relation to foraging ecology and its impact on the oxidative status of an endangered seabird. <i>Science of the Total Environment</i> , 2020, 724, 138131. | 8.0 | 8 |
| 126 | The differential tolerance of C3 and C4 cereals to aluminum toxicity is faded under future CO ₂ climate. <i>Plant Physiology and Biochemistry</i> , 2021, 169, 249-258. | 5.8 | 8 |

| # | ARTICLE | IF | CITATIONS |
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