

# Saud Alamri

## List of Publications by Year in descending order

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103  
papers

3,725  
citations

109311

35  
h-index

168376

53  
g-index

107  
all docs

107  
docs citations

107  
times ranked

2788  
citing authors

#	ARTICLE	IF	CITATIONS
1	Melatonin and calcium function synergistically to promote the resilience through ROS metabolism under arsenic-induced stress. <i>Journal of Hazardous Materials</i> , 2020, 398, 122882.	12.4	213
2	Potential of exogenously sourced kinetin in protecting <i>Solanum lycopersicum</i> from NaCl-induced oxidative stress through up-regulation of the antioxidant system, ascorbate-glutathione cycle and glyoxalase system. <i>PLoS ONE</i> , 2018, 13, e0202175.	2.5	158
3	<i>Bacillus firmus</i> (SW5) augments salt tolerance in soybean ( <i>Glycine max</i> L.) by modulating root system architecture, antioxidant defense systems and stress-responsive genes expression. <i>Plant Physiology and Biochemistry</i> , 2018, 132, 375-384.	5.8	149
4	Exogenous Melatonin Counteracts NaCl-Induced Damage by Regulating the Antioxidant System, Proline and Carbohydrates Metabolism in Tomato Seedlings. <i>International Journal of Molecular Sciences</i> , 2019, 20, 353.	4.1	145
5	Effect of foliar applications of silicon and titanium dioxide nanoparticles on growth, oxidative stress, and cadmium accumulation by rice ( <i>Oryza sativa</i> ). <i>Acta Physiologiae Plantarum</i> , 2019, 41, 1.	2.1	129
6	Fertilizers and Their Contaminants in Soils, Surface and Groundwater. , 2018, , 225-240.		124
7	Jasmonic acid alleviates negative impacts of cadmium stress by modifying osmolytes and antioxidants in faba bean ( <i>Vicia faba</i> L.). <i>Archives of Agronomy and Soil Science</i> , 2017, 63, 1889-1899.	2.6	110
8	Melatonin-Induced Salinity Tolerance by Ameliorating Osmotic and Oxidative Stress in the Seedlings of Two Tomato ( <i>Solanum lycopersicum</i> L.) Cultivars. <i>Journal of Plant Growth Regulation</i> , 2021, 40, 2236-2248.	5.1	93
9	Foliar application of zinc oxide nanoparticles: An effective strategy to mitigate drought stress in cucumber seedling by modulating antioxidant defense system and osmolytes accumulation. <i>Chemosphere</i> , 2022, 289, 133202.	8.2	91
10	Crosstalk of hydrogen sulfide and nitric oxide requires calcium to mitigate impaired photosynthesis under cadmium stress by activating defense mechanisms in <i>Vigna radiata</i> . <i>Plant Physiology and Biochemistry</i> , 2020, 156, 278-290.	5.8	84
11	Ascorbic acid improves the tolerance of wheat plants to lead toxicity. <i>Journal of Plant Interactions</i> , 2018, 13, 409-419.	2.1	80
12	Role of Zinc Lysine on Growth and Chromium Uptake in Rice Plants under Cr Stress. <i>Journal of Plant Growth Regulation</i> , 2018, 37, 1413-1422.	5.1	73
13	Silver Nanoparticle Regulates Salt Tolerance in Wheat Through Changes in ABA Concentration, Ion Homeostasis, and Defense Systems. <i>Biomolecules</i> , 2020, 10, 1506.	4.0	73
14	Silicon-induced postponement of leaf senescence is accompanied by modulation of antioxidative defense and ion homeostasis in mustard ( <i>Brassica juncea</i> ) seedlings exposed to salinity and drought stress. <i>Plant Physiology and Biochemistry</i> , 2020, 157, 47-59.	5.8	70
15	Exogenous nitric oxide requires endogenous hydrogen sulfide to induce the resilience through sulfur assimilation in tomato seedlings under hexavalent chromium toxicity. <i>Plant Physiology and Biochemistry</i> , 2020, 155, 20-34.	5.8	66
16	Potential roles of melatonin and sulfur in alleviation of lanthanum toxicity in tomato seedlings. <i>Ecotoxicology and Environmental Safety</i> , 2019, 180, 656-667.	6.0	63
17	Antifungal and Antibacterial Activities of Wood Treated with <i>Musa paradisiaca</i> L. Peel Extract: HPLC Analysis of Phenolic and Flavonoid Contents. <i>Processes</i> , 2019, 7, 215.	2.8	63
18	Exogenous nitric oxide alleviates sulfur deficiency-induced oxidative damage in tomato seedlings. <i>Nitric Oxide - Biology and Chemistry</i> , 2020, 94, 95-107.	2.7	60

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19	Exogenously applied growth regulators protect the cotton crop from heat-induced injury by modulating plant defense mechanism. <i>Scientific Reports</i> , 2018, 8, 17086.	3.3	58
20	Nitric oxide-mediated cross-talk of proline and heat shock proteins induce thermotolerance in <i>Vicia faba</i> L. <i>Environmental and Experimental Botany</i> , 2019, 161, 290-302.	4.2	57
21	Yield, Phytochemical Constituents, and Antibacterial Activity of Essential Oils from the Leaves/Twigs, Branches, Branch Wood, and Branch Bark of Sour Orange ( <i>Citrus aurantium</i> L.). <i>Processes</i> , 2019, 7, 363.	2.8	55
22	Melatonin and Gibberellic Acid Promote Growth and Chlorophyll Biosynthesis by Regulating Antioxidant and Methylglyoxal Detoxification System in Tomato Seedlings Under Salinity. <i>Journal of Plant Growth Regulation</i> , 2020, 39, 1488-1502.	5.1	55
23	Role of mineral nutrition in alleviation of heat stress in cotton plants grown in glasshouse and field conditions. <i>Scientific Reports</i> , 2019, 9, 13022.	3.3	54
24	Evaluation of Drought Tolerance of Some Wheat ( <i>Triticum aestivum</i> L.) Genotypes through Phenology, Growth, and Physiological Indices. <i>Agronomy</i> , 2021, 11, 1792.	3.0	53
25	Calcium-hydrogen sulfide crosstalk during K <sup>+</sup> -deficient NaCl stress operates through regulation of Na <sup>+</sup> /H <sup>+</sup> antiport and antioxidative defense system in mung bean roots. <i>Plant Physiology and Biochemistry</i> , 2021, 159, 211-225.	5.8	52
26	Exogenous application of nitric oxide and spermidine reduces the negative effects of salt stress on tomato. <i>Horticulture Environment and Biotechnology</i> , 2017, 58, 537-547.	2.1	50
27	Alpha-tocopherol fertigation confers growth physio-biochemical and qualitative yield enhancement in field grown water deficit wheat ( <i>Triticum aestivum</i> L.). <i>Scientific Reports</i> , 2019, 9, 12924.	3.3	48
28	Synthesis of silver nanoparticles using <i>Plantago lanceolata</i> extract and assessing their antibacterial and antioxidant activities. <i>Scientific Reports</i> , 2021, 11, 20754.	3.3	48
29	Sodium nitroprusside and indole acetic acid improve the tolerance of tomato plants to heat stress by protecting against DNA damage. <i>Journal of Plant Interactions</i> , 2017, 12, 177-186.	2.1	46
30	Experimental Investigation of <i>Chlorella vulgaris</i> and <i>Enterobacter</i> sp. MN17 for Decolorization and Removal of Heavy Metals from Textile Wastewater. <i>Water (Switzerland)</i> , 2020, 12, 3034.	2.7	46
31	Phosphorus Nutrient Management through Synchronization of Application Methods and Rates in Wheat and Maize Crops. <i>Plants</i> , 2020, 9, 1389.	3.5	45
32	Influence of ecological and edaphic factors on biodiversity of soil nematodes. <i>Saudi Journal of Biological Sciences</i> , 2021, 28, 3049-3059.	3.8	45
33	Biosynthesized gold nanoparticles maintained nitrogen metabolism, nitric oxide synthesis, ions balance, and stabilizes the defense systems to improve salt stress tolerance in wheat. <i>Chemosphere</i> , 2022, 287, 132142.	8.2	45
34	Alleviative role of exogenously applied mannitol in maize cultivars differing in chromium stress tolerance. <i>Environmental Science and Pollution Research</i> , 2019, 26, 5111-5121.	5.3	44
35	Molybdenum and hydrogen sulfide synergistically mitigate arsenic toxicity by modulating defense system, nitrogen and cysteine assimilation in faba bean ( <i>Vicia faba</i> L.) seedlings. <i>Environmental Pollution</i> , 2021, 290, 117953.	7.5	43
36	Effect of zinc nanoparticles seed priming and foliar application on the growth and physio-biochemical indices of spinach ( <i>Spinacia oleracea</i> L.) under salt stress. <i>PLoS ONE</i> , 2022, 17, e0263194.	2.5	43

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37	Effect of Nitric Oxide on Seed Germination and Seedling Development of Tomato Under Chromium Toxicity. <i>Journal of Plant Growth Regulation</i> , 2021, 40, 2358-2370.	5.1	39
38	Hydrogen sulfide (H <sub>2</sub> S) and potassium (K <sup>+</sup> ) synergistically induce drought stress tolerance through regulation of H <sup>+</sup> -ATPase activity, sugar metabolism, and antioxidative defense in tomato seedlings. <i>Plant Cell Reports</i> , 2021, 40, 1543-1564.	5.6	39
39	Strigolactone (GR24) Induced Salinity Tolerance in Sunflower ( <i>Helianthus annuus</i> L.) by Ameliorating Morpho-Physiological and Biochemical Attributes Under In Vitro Conditions. <i>Journal of Plant Growth Regulation</i> , 2021, 40, 2079-2091.	5.1	37
40	Mitigation of Nickel Toxicity and Growth Promotion in Sesame through the Application of a Bacterial Endophyte and Zeolite in Nickel Contaminated Soil. <i>International Journal of Environmental Research and Public Health</i> , 2020, 17, 8859.	2.6	36
41	Effects of ZnO nanoparticles and its bulk form on growth, antioxidant defense system and expression of oxidative stress related genes in <i>Hordeum vulgare</i> L. <i>Chemosphere</i> , 2022, 287, 132167.	8.2	36
42	Mitigation of arsenate toxicity by indole-3-acetic acid in brinjal roots: Plausible association with endogenous hydrogen peroxide. <i>Journal of Hazardous Materials</i> , 2021, 405, 124336.	12.4	31
43	Antibacterial and Antifungal Activity of the Extracts of Different Parts of <i>Avicennia marina</i> (Forssk.) Vierh. <i>Plants</i> , 2021, 10, 252.	3.5	29
44	Salicylic Acid Improves Nitrogen Fixation, Growth, Yield and Antioxidant Defence Mechanisms in Chickpea Genotypes Under Salt Stress. <i>Journal of Plant Growth Regulation</i> , 2022, 41, 2034-2047.	5.1	29
45	Molybdenum-induced endogenous nitric oxide (NO) signaling coordinately enhances resilience through chlorophyll metabolism, osmolyte accumulation and antioxidant system in arsenate stressed-wheat ( <i>Triticum aestivum</i> L.) seedlings. <i>Environmental Pollution</i> , 2022, 292, 118268.	7.5	28
46	Zinc Oxide Nanoparticles Interplay With Physiological and Biochemical Attributes in Terminal Heat Stress Alleviation in Mungbean ( <i>Vigna radiata</i> L.). <i>Frontiers in Plant Science</i> , 2022, 13, 842349.	3.6	28
47	Iron Oxide and Silicon Nanoparticles Modulate Mineral Nutrient Homeostasis and Metabolism in Cadmium-Stressed <i>Phaseolus vulgaris</i> . <i>Frontiers in Plant Science</i> , 2022, 13, 806781.	3.6	28
48	Mitigation of adverse effects of heat stress on <i>Vicia faba</i> by exogenous application of magnesium. <i>Saudi Journal of Biological Sciences</i> , 2018, 25, 1393-1401.	3.8	27
49	Salicylic Acid Modulates Antioxidant System, Defense Metabolites, and Expression of Salt Transporter Genes in <i>Pisum sativum</i> Under Salinity Stress. <i>Journal of Plant Growth Regulation</i> , 2022, 41, 1905-1918.	5.1	26
50	Efficiency of Wheat Straw Biochar in Combination with Compost and Biogas Slurry for Enhancing Nutritional Status and Productivity of Soil and Plant. <i>Plants</i> , 2020, 9, 1516.	3.5	25
51	Enhanced Growth of Mungbean and Remediation of Petroleum Hydrocarbons by <i>Enterobacter</i> sp. MN17 and Biochar Addition in Diesel Contaminated Soil. <i>Applied Sciences (Switzerland)</i> , 2020, 10, 8548.	2.5	24
52	Seed priming with gibberellic acid induces high salinity tolerance in <i>Pisum sativum</i> through antioxidants, secondary metabolites and up-regulation of antiporter genes. <i>Plant Biology</i> , 2021, 23, 113-121.	3.8	24
53	Effects of rice straw biochar and nitrogen fertilizer on ramie ( <i>Boehmeria nivea</i> L.) morpho-physiological traits, copper uptake and post-harvest soil characteristics, grown in an aged-copper contaminated soil. <i>Journal of Plant Nutrition</i> , 2022, 45, 11-24.	1.9	21
54	Exploring the potential effect of <i>Achnatherum splendens</i> L.-derived biochar treated with phosphoric acid on bioavailability of cadmium and wheat growth in contaminated soil. <i>Environmental Science and Pollution Research</i> , 2022, 29, 37676-37684.	5.3	21

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55	Phosphorus supplementation modulates nitric oxide biosynthesis and stabilizes the defence system to improve arsenic stress tolerance in mustard. <i>Plant Biology</i> , 2021, 23, 152-161.	3.8	19
56	Improvement of salt and waterlogging tolerance in wheat: comparative physiology of <i>Hordeum marinum</i> - <i>Triticum aestivum</i> amphiploids with their <i>H. marinum</i> and wheat parents. <i>Functional Plant Biology</i> , 2013, 40, 1168.	2.1	18
57	A mini-review of anti-hepatitis B virus activity of medicinal plants. <i>Biotechnology and Biotechnological Equipment</i> , 2017, 31, 9-15.	1.3	18
58	Dose dependent differential effects of toxic metal cadmium in tomato roots: Role of endogenous hydrogen sulfide. <i>Ecotoxicology and Environmental Safety</i> , 2020, 203, 110978.	6.0	18
59	Profiling of Antifungal Activities and In Silico Studies of Natural Polyphenols from Some Plants. <i>Molecules</i> , 2021, 26, 7164.	3.8	17
60	Application of soil biofertilizers to a clayey soil contaminated with <i>Sclerotium rolfsii</i> can promote production, protection and nutritive status of <i>Phaseolus vulgaris</i> . <i>Chemosphere</i> , 2021, 271, 129321.	8.2	15
61	Mitigation of bacterial spot disease induced biotic stress in <i>Capsicum annum</i> L. cultivars via antioxidant enzymes and isoforms. <i>Scientific Reports</i> , 2021, 11, 9445.	3.3	15
62	Impact of Coating of Urea with <i>Bacillus</i> -Augmented Zinc Oxide on Wheat Grown under Salinity Stress. <i>Plants</i> , 2020, 9, 1375.	3.5	14
63	Effects of Different Nitrogen Forms and Competitive Treatments on the Growth and Antioxidant System of <i>Wedelia trilobata</i> and <i>Wedelia chinensis</i> Under High Nitrogen Concentrations. <i>Frontiers in Plant Science</i> , 2022, 13, 851099.	3.6	14
64	Calcium Nanoparticles Impregnated With Benzenedicarboxylic Acid: A New Approach to Alleviate Combined Stress of DDT and Cadmium in <i>Brassica alboglabra</i> by Modulating Bioaccumulation, Antioxidative Machinery and Osmoregulators. <i>Frontiers in Plant Science</i> , 2022, 13, 825829.	3.6	14
65	Priming of tomato seedlings with 2-oxoglutarate induces arsenic toxicity alleviatory responses by involving endogenous nitric oxide. <i>Physiologia Plantarum</i> , 2021, 173, 45-57.	5.2	13
66	Impact of Metal-Based Nanoparticles on Cambisol Microbial Functionality, Enzyme Activity, and Plant Growth. <i>Plants</i> , 2021, 10, 2080.	3.5	13
67	Integrated Nutrient Management Enhances Productivity and Nitrogen Use Efficiency of Crops in Acidic and Charland Soils. <i>Plants</i> , 2021, 10, 2547.	3.5	13
68	Iron oxide nanoparticles doped biochar ameliorates trace elements induced phytotoxicity in tomato by modulation of physiological and biochemical responses: Implications for human health risk. <i>Chemosphere</i> , 2022, 289, 133203.	8.2	13
69	Exploring the potential of moringa leaf extract as bio stimulant for improving yield and quality of black cumin oil. <i>Scientific Reports</i> , 2021, 11, 24217.	3.3	13
70	Effect of Plant Spacings on Growth, Physiology, Yield and Fiber Quality Attributes of Cotton Genotypes under Nitrogen Fertilization. <i>Agronomy</i> , 2021, 11, 2589.	3.0	13
71	Nitrogen and potassium application effects on productivity, profitability and nutrient use efficiency of irrigated wheat ( <i>Triticum aestivum</i> L.). <i>PLoS ONE</i> , 2022, 17, e0264210.	2.5	12
72	Antioxidant, Hypoglycemic, and Neurobehavioral Effects of a Leaf Extract of <i>Avicennia marina</i> on Autoimmune Diabetic Mice. <i>Evidence-based Complementary and Alternative Medicine</i> , 2019, 2019, 1-8.	1.2	11

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73	Adsorption of azo and anthraquinone dye by using watermelon peel powder and corn peel powder: equilibrium and kinetic studies. <i>Biointerface Research in Applied Chemistry</i> , 2020, 10, 4706-4713.	1.0	11
74	Seed Priming with Mg(NO <sub>3</sub> ) <sub>2</sub> and ZnSO <sub>4</sub> Salts Triggers the Germination and Growth Attributes Synergistically in Wheat Varieties. <i>Agronomy</i> , 2021, 11, 2110.	3.0	11
75	Effect of Elevated CO <sub>2</sub> on Biomolecules™ Accumulation in Caraway ( <i>Carum carvi</i> L.) Plants at Different Developmental Stages. <i>Plants</i> , 2021, 10, 2434.	3.5	11
76	Designing novel MgFe <sub>2</sub> O <sub>4</sub> coupled V <sub>2</sub> O <sub>5</sub> 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
77	Zn alleviated salt toxicity in <i>Solanum lycopersicum</i> L. seedlings by reducing Na <sup>+</sup> transfer, improving gas exchange, defense system and Zn contents. <i>Plant Physiology and Biochemistry</i> , 2022, 186, 52-63.	5.8	11
78	Calcium and jasmonic acid exhibit synergistic effects in mitigating arsenic stress in tomato seedlings accompanied by antioxidative defense, increased nutrient accumulation and upregulation of glyoxalase system. <i>South African Journal of Botany</i> , 2022, 150, 14-25.	2.5	10
79	Arsenic Accumulation in Rice Grain as Influenced by Water Management: Human Health Risk Assessment. <i>Agronomy</i> , 2021, 11, 1741.	3.0	9
80	Comparative Effect of Inoculation of Phosphorus-Solubilizing Bacteria and Phosphorus as Sustainable Fertilizer on Yield and Quality of Mung Bean ( <i>Vigna radiata</i> L.). <i>Plants</i> , 2021, 10, 2079.	3.5	9
81	Calcium induced growth, physio-biochemical, antioxidant, osmolyte adjustments and phytoconstituent status in spinach under heat stress. <i>South African Journal of Botany</i> , 2022, 149, 701-711.	2.5	9
82	Performance of <i>Zea mays</i> L. cultivars in tannery polluted soils: Management of chromium phytotoxicity through the application of biochar and compost. <i>Physiologia Plantarum</i> , 2021, 173, 129-147.	5.2	8
83	Soil Fertility, N <sub>2</sub> Fixation and Yield of Chickpea as Influenced by Long-Term Biochar Application under Mung-Chickpea Cropping System. <i>Sustainability</i> , 2020, 12, 9008.	3.2	8
84	Seasonal variation in yield, nutritive value, and antioxidant capacity of leaves of alfalfa plants grown in arid climate of Saudi Arabia. <i>Chilean Journal of Agricultural Research</i> , 2021, 81, 182-190.	1.1	8
85	Ascorbate and glutathione independently alleviate arsenate toxicity in brinjal but both require endogenous nitric oxide. <i>Physiologia Plantarum</i> , 2021, 173, 276-286.	5.2	7
86	Laser Light Treatment Improves the Mineral Composition, Essential Oil Production and Antimicrobial Activity of Mycorrhizal Treated <i>Pelargonium graveolens</i> . <i>Molecules</i> , 2022, 27, 1752.	3.8	7
87	Synthesis of Pyrazolinone Derivatives Clubbed with Thiazole and/or Thiadiazole and Evaluation of Their Antioxidant and Cytotoxic Activities. <i>ChemistrySelect</i> , 2019, 4, 11735-11739.	1.5	6
88	Developmental Stages-Specific Response of Anise Plants to Laser-Induced Growth, Nutrients Accumulation, and Essential Oil Metabolism. <i>Plants</i> , 2021, 10, 2591.	3.5	6
89	Nickel tolerance and phytoremediation potential of quinoa are modulated under salinity: multivariate comparison of physiological and biochemical attributes. <i>Environmental Geochemistry and Health</i> , 2022, 44, 1409-1424.	3.4	6
90	Adaptability and Stability of Safflower Genotypes for Oil Production. <i>Plants</i> , 2022, 11, 708.	3.5	6

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91	Deciphering the Potential of Bioactivated Rock Phosphate and Di-Ammonium Phosphate on Agronomic Performance, Nutritional Quality and Productivity of Wheat ( <i>Triticum aestivum</i> L.). <i>Agronomy</i> , 2021, 11, 684.	3.0	5
92	Boron induces seed germination and seedling growth of <i>Hordeum vulgare</i> L. under NaCl stress. <i>Journal of Advances in Agriculture</i> , 0, 8, 1224-1234.	0.1	5
93	Seed germination ecology of <i>Conyza stricta</i> Willd. and implications for management. <i>PLoS ONE</i> , 2020, 15, e0244059.	2.5	4
94	Integration of high seeding densities and criss cross row planting pattern suppresses weeds and increases grain yield of spring wheat. <i>Journal of Environmental Biology</i> , 2017, 38, 1139-1145.	0.5	4
95	Potential Use of <i>Ascophyllum nodosum</i> as a Biostimulant for Improving the Growth Performance of <i>Vigna aconitifolia</i> (Jacq.) Marechal. <i>Plants</i> , 2021, 10, 2361.	3.5	4
96	Combined Effect of Animal Manures and Di-Ammonium Phosphate (DAP) on Growth, Physiology, Root Nodulation and Yield of Chickpea. <i>Agronomy</i> , 2022, 12, 674.	3.0	4
97	Cysteine and Hydrogen Sulfide: A Complementary Association for Plant Acclimation to Abiotic Stress. <i>Plant in Challenging Environments</i> , 2021, , 187-214.	0.4	3
98	FRET-Based Genetically Encoded Nanosensor for Real-Time Monitoring of the Flux of $\alpha$ -Tocopherol in Living Cells. <i>ACS Omega</i> , 2021, 6, 9020-9027.	3.5	3
99	Polyphenol Rich <i>Ajuga bracteosa</i> Transgenic Regenerants Display Better Pharmacological Potential. <i>Molecules</i> , 2021, 26, 4874.	3.8	3
100	Potential Importance of Molybdenum Priming to Metabolism and Nutritive Value of <i>Canavalia</i> spp. Sprouts. <i>Plants</i> , 2021, 10, 2387.	3.5	3
101	Protective Effects of Green Tea Supplementation against Lead-Induced Neurotoxicity in Mice. <i>Molecules</i> , 2022, 27, 993.	3.8	3
102	Synthesis of Bis(2-thiazolyl)amine Analogues and Evaluation of Their Antibacterial, Antioxidant and Cytotoxic Activities. <i>ChemistrySelect</i> , 2019, 4, 11726-11734.	1.5	2
103	Full sunlight acclimation mechanisms in <i>Riccia discolor</i> thalli: Assessment at morphological, anatomical, and biochemical levels. <i>Journal of Photochemistry and Photobiology B: Biology</i> , 2020, 210, 111983.	3.8	0