

Gyan S Shekhawat

List of Publications by Year in descending order

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Version: 2024-02-01

42
papers

1,757
citations

279798

23
h-index

289244

40
g-index

43
all docs

43
docs citations

43
times ranked

1817
citing authors

#	ARTICLE	IF	CITATIONS
1	Haem oxygenase (HO): an overlooked enzyme of plant metabolism and defence. <i>Journal of Experimental Botany</i> , 2010, 61, 2255-2270.	4.8	168
2	<i>Anethum graveolens</i> : An Indian traditional medicinal herb and spice. <i>Pharmacognosy Reviews</i> , 2010, 4, 179.	1.2	158
3	Toxicity of ZnO engineered nanoparticles and evaluation of their effect on growth, metabolism and tissue specific accumulation in <i>Brassica juncea</i> . <i>Journal of Environmental Chemical Engineering</i> , 2014, 2, 105-114.	6.7	124
4	Nitric oxide (NO) counteracts cadmium induced cytotoxic processes mediated by reactive oxygen species (ROS) in <i>Brassica juncea</i> : cross-talk between ROS, NO and antioxidant responses. <i>BioMetals</i> , 2013, 26, 255-269.	4.1	118
5	Nitric oxide (NO) in alleviation of heavy metal induced phytotoxicity and its role in protein nitration. <i>Nitric Oxide - Biology and Chemistry</i> , 2013, 32, 13-20.	2.7	103
6	Critical review on medicinally potent plant species: <i>Gloriosa superba</i> . <i>FĀ-toterapĀ-Āċ</i> , 2011, 82, 293-301.	2.2	86
7	Establishment and characterization of <i>Stevia rebaudiana</i> (Bertoni) cell suspension culture: an in vitro approach for production of stevioside. <i>Acta Physiologiae Plantarum</i> , 2013, 35, 931-939.	2.1	78
8	Cadmium induced oxidative stress and changes in soluble and ionically bound cell wall peroxidase activities in roots of seedling and 3Ā4 leaf stage plants of <i>Brassica juncea</i> (L.) czern. <i>Plant Cell Reports</i> , 2008, 27, 1261-1269.	5.6	65
9	In vitro biochemical evaluation of cadmium tolerance mechanism in callus and seedlings of <i>Brassica juncea</i> . <i>Protoplasma</i> , 2010, 239, 31-38.	2.1	63
10	Phytotoxicity and oxidative stress perspective of two selected nanoparticles in <i>Brassica juncea</i> . <i>3 Biotech</i> , 2016, 6, 244.	2.2	61
11	Haem oxygenase: A functionally diverse enzyme of photosynthetic organisms and its role in phytochrome chromophore biosynthesis, cellular signalling and defence mechanisms. <i>Plant, Cell and Environment</i> , 2018, 41, 483-500.	5.7	46
12	Critical Review on Steviol Glycosides: Pharmacological, Toxicological and Therapeutic Aspects of High Potency Zero Caloric Sweetener. <i>International Journal of Pharmacology</i> , 2017, 13, 916-928.	0.3	44
13	Plant growth regulators, adenine sulfate and carbohydrates regulate organogenesis and in vitro flowering of <i>Anethum graveolens</i> . <i>Acta Physiologiae Plantarum</i> , 2011, 33, 305-311.	2.1	43
14	Role of Engineered Carbon Nanoparticles (CNPs) in Promoting Growth and Metabolism of <i>Vigna radiata</i> (L.) Wilczek: Insights into the Biochemical and Physiological Responses. <i>Plants</i> , 2021, 10, 1317.	3.5	42
15	Phytochemical Analysis and Antibacterial Screening of in vivo and in vitro Extracts of Indian Medicinal Herb: <i>Anethum graveolens</i> . <i>Research Journal of Medicinal Plant</i> , 2010, 4, 206-212.	0.3	41
16	Molecular characterization of two distinct monopartite begomoviruses infecting tomato in india. <i>Virology Journal</i> , 2010, 7, 337.	3.4	37
17	Role of phytohormones and nitrogen in somatic embryogenesis induction in cell culture derived from leaflets of <i>Azadirachta indica</i> . <i>Biologia Plantarum</i> , 2009, 53, 707-710.	1.9	35
18	Production, storability and morphogenic response of alginate encapsulated axillary meristems and genetic fidelity evaluation of in vitro regenerated <i>Ceropegia bulbosa</i> : A pharmaceutically important threatened plant species. <i>Industrial Crops and Products</i> , 2013, 47, 139-144.	5.2	33

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19	Evaluation of heme oxygenase 1 (HO 1) in Cd and Ni induced cytotoxicity and crosstalk with ROS quenching enzymes in two to four leaf stage seedlings of <i>Vigna radiata</i> . <i>Protoplasma</i> , 2018, 255, 527-545.	2.1	33
20	In vitro regeneration of <i>Anethum graveolens</i> , antioxidative enzymes during organogenesis and RAPD analysis for clonal fidelity. <i>Biologia Plantarum</i> , 2012, 56, 9-14.	1.9	30
21	Nitric oxide induced Cd tolerance and phytoremediation potential of <i>B. juncea</i> by the modulation of antioxidant defense system and ROS detoxification. <i>BioMetals</i> , 2021, 34, 15-32.	4.1	28
22	EsHO 1 mediated mitigation of NaCl induced oxidative stress and correlation between ROS, antioxidants and HO 1 in seedlings of <i>Eruca sativa</i> : underutilized oil yielding crop of arid region. <i>Physiology and Molecular Biology of Plants</i> , 2019, 25, 895-904.	3.1	27
23	NaCl induced oxidative stress in legume crops of Indian Thar Desert: an insight in the cytoprotective role of HO1, NO and antioxidants. <i>Physiology and Molecular Biology of Plants</i> , 2020, 26, 51-62.	3.1	26
24	Nitric oxide mitigates salt-induced oxidative stress in <i>Brassica juncea</i> seedlings by regulating ROS metabolism and antioxidant defense system. <i>3 Biotech</i> , 2020, 10, 499.	2.2	22
25	Exogenous hemin improves Cd ²⁺ tolerance and remediation potential in <i>Vigna radiata</i> by intensifying the HO-1 mediated antioxidant defence system. <i>Scientific Reports</i> , 2021, 11, 2811.	3.3	22
26	Cd- and Cu-induced phytotoxicity on 2-3 leaf stage of <i>Cyamopsis tetragonoloba</i> and its regulation by nitrate reductase and ROS quenching enzyme. <i>Acta Physiologiae Plantarum</i> , 2020, 42, 1.	2.1	21
27	Nitric oxide improved salt stress tolerance by osmolyte accumulation and activation of antioxidant defense system in seedling of <i>B. juncea</i> (L.) Czern. <i>Vegetos</i> , 2019, 32, 583-592.	1.5	20
28	Antioxidant activity of heme oxygenase 1 in <i>Brassica juncea</i> (L.) Czern.(Indian mustard) under salt stress. <i>Turkish Journal of Biology</i> , 2015, 39, 540-549.	0.8	19
29	In Vitro Propagation Using Transverse Thin Cell Layer Culture and Homogeneity Assessment in <i>Ceropegia bulbosa</i> Roxb.. <i>Journal of Plant Growth Regulation</i> , 2014, 33, 820-830.	5.1	18
30	An efficient In Vitro Method for Mass Propagation of <i>Salvadora persica</i> via Apical Meristem. <i>Journal of Plant Biochemistry and Biotechnology</i> , 2002, 11, 125-127.	1.7	17
31	In vitro evaluation of mitochondrial chloroplast subcellular localization of heme oxygenase1 (HO1) in <i>Glycine max</i> . <i>Protoplasma</i> , 2014, 251, 671-675.	2.1	17
32	Improved Protocol for Somatic Embryogenesis and Calcium Alginate Encapsulation in <i>Anethum graveolens</i> L.: A Medicinal Herb. <i>Applied Biochemistry and Biotechnology</i> , 2014, 173, 2267-2278.	2.9	17
33	Biological Synthesis of Ag Nanoparticles through In Vitro Cultures of <i>Brassica Juncea</i> ; <i>C. zern</i> . <i>Advanced Materials Research</i> , 0, 67, 295-299.	0.3	16
34	Ecorehabilitation and biochemical studies of <i>Ceropegia bulbosa</i> Roxb.: a threatened medicinal succulent. <i>Acta Physiologiae Plantarum</i> , 2014, 36, 1335-1343.	2.1	16
35	Role of Proline in Mitigating NaCl induced Oxidative Stress in <i>Eruca sativa</i> Miller: An important Oil Yielding Crop of Indian Thar Desert. <i>Vegetos</i> , 2018, 31, 55.	1.5	15
36	Phyto-cleaning of particulate matter from polluted air by woody plant species in the near-desert city of Jodhpur (India) and the role of heme oxygenase in their response to PM stress conditions. <i>Environmental Science and Pollution Research</i> , 2022, 29, 70228-70241.	5.3	15

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37	Regulatory role of thiols and proline in mitigation of Cu induced phytotoxicity in seven day's old hydroponically acclimatized seedling of <i>Cyamopsis tetragonoloba</i> . Biotech Today an International Journal of Biological Sciences, 2018, 8, 48.	0.1	9
38	Salicylic acid mediated up regulation of carvone biosynthesis during growth phase in cell suspension cultures of <i>Anethum graveolens</i> . 3 Biotech, 2020, 10, 482.	2.2	6
39	INVESTIGATIONS ON NEW REVOLUTIONARY FERTILITY INHIBITORS 9, 10-DIAMINOPHENANTHRENE DERIVATIVES OF BIVALENT MANGANESE: ANTIFERTILITY, ANTIBACTERIAL, ANTIFUNGAL AND PERCENT DISEASE INCIDENCE ASPECTS. Reviews in Inorganic Chemistry, 2010, 30, 113-134.	4.1	5
40	Antioxidant response of <i>Stevia rebaudiana</i> (Bertoni) Bertoni (Angiosperms; Asteraceae) during developing phase of suspension cell culture. Plant Science Today, 2016, 3, 115-124.	0.7	5
41	Role of Phytohormones and PGR's in Micropropagation of <i>Anethum graveolens</i> L. through Axillary Shoots and Evaluation of NaCl effect on Growth Parameters. Vegetos, 2018, 31, 76.	1.5	3
42	In vitro regeneration of <i>Anethum graveolens</i> , antioxidative enzymes during organogenesis and RAPD analysis for clonal fidelity. Biologia Plantarum, 0, , .	1.9	1