

# Gyan S Shekhawat

## List of Publications by Year in descending order

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Version: 2024-02-01

42  
papers

1,757  
citations

318942

23  
h-index

325983

40  
g-index

43  
all docs

43  
docs citations

43  
times ranked

2022  
citing authors

#	ARTICLE	IF	CITATIONS
1	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.	2.7	15
2	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.	1.8	28
3	Exogenous hemin improves Cd <sup>2+</sup> 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.	1.6	22
4	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.	1.6	42
5	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.	1.4	26
6	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.	1.1	22
7	Salicylic acid mediated up regulation of carvone biosynthesis during growth phase in cell suspension cultures of <i>Anethum graveolens</i> . <i>3 Biotech</i> , 2020, 10, 482.	1.1	6
8	Cd- and Cu-induced phytotoxicity on 2 <sup>nd</sup> 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.	1.0	21
9	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.	0.8	20
10	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.	1.4	27
11	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.	1.0	33
12	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.	2.8	46
13	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.	0.8	15
14	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. <i>Vegetos</i> , 2018, 31, 76.	0.8	3
15	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> . <i>Biotech Today an International Journal of Biological Sciences</i> , 2018, 8, 48.	0.1	9
16	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.	0.1	44
17	Phytotoxicity and oxidative stress perspective of two selected nanoparticles in <i>Brassica juncea</i> . <i>3 Biotech</i> , 2016, 6, 244.	1.1	61
18	Antioxidant response of <i>Stevia rebaudiana</i> (Bertoni) Bertoni (Angiosperms; Asteraceae) during developing phase of suspension cell culture. <i>Plant Science Today</i> , 2016, 3, 115-124.	0.4	5

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19	Antioxidant activity of heme oxygenase 1 in Brassica juncea (L.) Czern.(Indian mustard) under salt stress. Turkish Journal of Biology, 2015, 39, 540-549.	2.1	19
20	In vitro evaluation of mitochondrial chloroplast subcellular localization of heme oxygenase1 (HO1) in Glycine max. Protoplasma, 2014, 251, 671-675.	1.0	17
21	Toxicity of ZnO engineered nanoparticles and evaluation of their effect on growth, metabolism and tissue specific accumulation in Brassica juncea. Journal of Environmental Chemical Engineering, 2014, 2, 105-114.	3.3	124
22	Improved Protocol for Somatic Embryogenesis and Calcium Alginate Encapsulation in Anethum graveolens L.: A Medicinal Herb. Applied Biochemistry and Biotechnology, 2014, 173, 2267-2278.	1.4	17
23	In Vitro Propagation Using Transverse Thin Cell Layer Culture and Homogeneity Assessment in Ceropogia bulbosa Roxb.. Journal of Plant Growth Regulation, 2014, 33, 820-830.	2.8	18
24	Ecorehabilitation and biochemical studies of Ceropogia bulbosa Roxb.: a threatened medicinal succulent. Acta Physiologiae Plantarum, 2014, 36, 1335-1343.	1.0	16
25	Nitric oxide (NO) in alleviation of heavy metal induced phytotoxicity and its role in protein nitration. Nitric Oxide - Biology and Chemistry, 2013, 32, 13-20.	1.2	103
26	Nitric oxide (NO) counteracts cadmium induced cytotoxic processes mediated by reactive oxygen species (ROS) in Brassica juncea: cross-talk between ROS, NO and antioxidant responses. BioMetals, 2013, 26, 255-269.	1.8	118
27	Production, storability and morphogenic response of alginate encapsulated axillary meristems and genetic fidelity evaluation of in vitro regenerated Ceropogia bulbosa: A pharmaceutically important threatened plant species. Industrial Crops and Products, 2013, 47, 139-144.	2.5	33
28	Establishment and characterization of Stevia rebaudiana (Bertoni) cell suspension culture: an in vitro approach for production of stevioside. Acta Physiologiae Plantarum, 2013, 35, 931-939.	1.0	78
29	In vitro regeneration of Anethum graveolens, antioxidative enzymes during organogenesis and RAPD analysis for clonal fidelity. Biologia Plantarum, 2012, 56, 9-14.	1.9	30
30	Critical review on medicinally potent plant species: Gloriosa superba. Fytoterapia, 2011, 82, 293-301.	1.1	86
31	Plant growth regulators, adenine sulfate and carbohydrates regulate organogenesis and in vitro flowering of Anethum graveolens. Acta Physiologiae Plantarum, 2011, 33, 305-311.	1.0	43
32	INVESTIGATIONS ON NEW REVOLUTIONARY FERTILITY INHIBITORS 9, 10-DIAMINOPHENENTHRENE DERIVATIVES OF BIVALENT MANGANESE: ANTIFERTILITY, ANTIBACTERIAL, ANTIFUNGAL AND PERCENT DISEASE INCIDENCE ASPECTS. Reviews in Inorganic Chemistry, 2010, 30, 113-134.	1.8	5
33	In vitro biochemical evaluation of cadmium tolerance mechanism in callus and seedlings of Brassica juncea. Protoplasma, 2010, 239, 31-38.	1.0	63
34	Anethum graveolens: An Indian traditional medicinal herb and spice. Pharmacognosy Reviews, 2010, 4, 179.	0.7	158
35	Haem oxygenase (HO): an overlooked enzyme of plant metabolism and defence. Journal of Experimental Botany, 2010, 61, 2255-2270.	2.4	168
36	Molecular characterization of two distinct monopartite begomoviruses infecting tomato in india. Virology Journal, 2010, 7, 337.	1.4	37

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37	Phytochemical Analysis and Antibacterial Screening of in vivo and in vitro Extracts of Indian Medicinal Herb: Anethum graveolens. Research Journal of Medicinal Plant, 2010, 4, 206-212.	0.3	41
38	Role of phytohormones and nitrogen in somatic embryogenesis induction in cell culture derived from leaflets of Azadirachta indica. Biologia Plantarum, 2009, 53, 707-710.	1.9	35
39	Cadmium induced oxidative stress and changes in soluble and ionically bound cell wall peroxidase activities in roots of seedling and 3 <sup>rd</sup> leaf stage plants of Brassica juncea (L.) czern. Plant Cell Reports, 2008, 27, 1261-1269.	2.8	65
40	An efficient In Vitro Method for Mass Propagation of Salvadora persica via Apical Meristem. Journal of Plant Biochemistry and Biotechnology, 2002, 11, 125-127.	0.9	17
41	Biological Synthesis of Ag Nanoparticles through <i>In Vitro</i> Cultures of <i>Brassica Juncea</i> ; <i>C. zern</i> . Advanced Materials Research, 0, 67, 295-299.	0.3	16
42	In vitro regeneration of Anethum graveolens, antioxidative enzymes during organogenesis and RAPD analysis for clonal fidelity. Biologia Plantarum, 0, , .	1.9	1