

# Vinod Saharan

## List of Publications by Year in descending order

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Version: 2024-02-01

52  
papers

2,641  
citations

393982

19  
h-index

264894

42  
g-index

54  
all docs

54  
docs citations

54  
times ranked

2244  
citing authors

#	ARTICLE	IF	CITATIONS
1	Nanofertilizer for Precision and Sustainable Agriculture: Current State and Future Perspectives. <i>Journal of Agricultural and Food Chemistry</i> , 2018, 66, 6487-6503.	2.4	416
2	Synthesis of chitosan based nanoparticles and their in vitro evaluation against phytopathogenic fungi. <i>International Journal of Biological Macromolecules</i> , 2013, 62, 677-683.	3.6	319
3	Synthesis and in vitro antifungal efficacy of Cu <sup>2+</sup> chitosan nanoparticles against pathogenic fungi of tomato. <i>International Journal of Biological Macromolecules</i> , 2015, 75, 346-353.	3.6	311
4	Cu-chitosan nanoparticle boost defense responses and plant growth in maize ( <i>Zea mays</i> L.). <i>Scientific Reports</i> , 2017, 7, 9754.	1.6	235
5	Cu-Chitosan Nanoparticle Mediated Sustainable Approach To Enhance Seedling Growth in Maize by Mobilizing Reserved Food. <i>Journal of Agricultural and Food Chemistry</i> , 2016, 64, 6148-6155.	2.4	192
6	Engineered chitosan based nanomaterials: Bioactivities, mechanisms and perspectives in plant protection and growth. <i>International Journal of Biological Macromolecules</i> , 2018, 113, 494-506.	3.6	167
7	Zinc encapsulated chitosan nanoparticle to promote maize crop yield. <i>International Journal of Biological Macromolecules</i> , 2019, 127, 126-135.	3.6	134
8	Thymol nanoemulsion exhibits potential antibacterial activity against bacterial pustule disease and growth promotory effect on soybean. <i>Scientific Reports</i> , 2018, 8, 6650.	1.6	115
9	Salicylic acid functionalized chitosan nanoparticle: A sustainable biostimulant for plant. <i>International Journal of Biological Macromolecules</i> , 2019, 123, 59-69.	3.6	106
10	Chitosan-silicon nanofertilizer to enhance plant growth and yield in maize ( <i>Zea mays</i> L.). <i>Plant Physiology and Biochemistry</i> , 2021, 159, 53-66.	2.8	78
11	Chitosan nanofertilizer to foster source activity in maize. <i>International Journal of Biological Macromolecules</i> , 2020, 145, 226-234.	3.6	57
12	A High Level of Transgenic Viral Small RNA Is Associated with Broad Potyvirus Resistance in Cucurbits. <i>Molecular Plant-Microbe Interactions</i> , 2011, 24, 1220-1238.	1.4	56
13	Larvicidal activity of saponins from <i>Balanites aegyptiaca</i> callus against <i>Aedes aegypti</i> mosquito. <i>Bioresource Technology</i> , 2008, 99, 1165-1168.	4.8	55
14	MgO Nanoparticles Biosynthesis and Its Effect on Chlorophyll Contents in the Leaves of Clusterbean ( <i>Cyamopsis tetragonoloba</i> L.). <i>Advanced Science, Engineering and Medicine</i> , 2014, 6, 538-545.	0.3	44
15	High frequency plant regeneration from desiccated calli of indica rice ( <i>Oryza Sativa</i> L.). <i>African Journal of Biotechnology</i> , 2004, 3, 256-259.	0.3	41
16	Cu-chitosan nano-net improves keeping quality of tomato by modulating physio-biochemical responses. <i>Scientific Reports</i> , 2020, 10, 21914.	1.6	31
17	Chitosan nanomaterials: A prelim of next-generation fertilizers; existing and future prospects. <i>Carbohydrate Polymers</i> , 2022, 288, 119356.	5.1	29
18	Mechanism of nanotoxicity in <i>Chlorella vulgaris</i> exposed to zinc and iron oxide. <i>Toxicology Reports</i> , 2021, 8, 724-731.	1.6	25

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19	Chitosan Based Nanomaterials in Plant Growth and Protection. SpringerBriefs in Plant Science, 2016, , .	0.4	23
20	Synthesis, Characterization, and Application of Chitosan Nanomaterials Loaded with Zinc and Copper for Plant Growth and Protection. , 2017, , 227-247.		23
21	Physio-biochemical responses of wheat plant towards salicylic acid-chitosan nanoparticles. Plant Physiology and Biochemistry, 2021, 162, 699-705.	2.8	21
22	Characterization Methods for Chitosan-Based Nanomaterials. Nanotechnology in the Life Sciences, 2019, , 103-116.	0.4	12
23	Antioxidant properties and free radicals scavenging activities of pomegranate ( <i>Punica granatum</i> L.) peels: An in-vitro study. Biocatalysis and Agricultural Biotechnology, 2022, 42, 102368.	1.5	12
24	Inactivation thermodynamics and iso-kinetic profiling for evaluating operational suitability of milk clotting enzyme immobilized in composite polymer matrix. International Journal of Biological Macromolecules, 2016, 91, 317-328.	3.6	11
25	Zinc-functionalized thymol nanoemulsion for promoting soybean yield. Plant Physiology and Biochemistry, 2019, 145, 64-74.	2.8	11
26	Green synthesis and characterization of Mg <sub>0.93</sub> Na <sub>0.07</sub> O nanoparticles for antimicrobial activity, cytotoxicity and magnetic hyperthermia. Ceramics International, 2022, 48, 28355-28373.	2.3	11
27	Slow-release Zn application through Zn-chitosan nanoparticles in wheat to intensify source activity and sink strength. Plant Physiology and Biochemistry, 2021, 168, 272-281.	2.8	10
28	Effect of Laboratory Synthesized Cu-Chitosan Nanocomposites on Control of PFSR Disease of Maize caused by <i>Fusarium verticillioides</i> . International Journal of Current Microbiology and Applied Sciences, 2017, 6, 1656-1664.	0.0	9
29	Viral, Fungal and Bacterial Disease Resistance in Transgenic Plants. , 2016, , 627-656.		8
30	In vitro Propagation of <i>Stevia rebaudiana</i> (Bertoni): An Overview. International Journal of Current Microbiology and Applied Sciences, 2017, 6, 1010-1022.	0.0	7
31	Effect of gibberellic acid combined with saponin on shoot elongation of <i>Asparagus officinalis</i> . <i>Biologia Plantarum</i> , 2010, 54, 740-742.	1.9	6
32	Ashwagandha Root Extract Inhibits Acetylcholine Esterase, Protein Modification and Ameliorates H <sub>2</sub> O <sub>2</sub> -Induced Oxidative Stress in Rat Lymphocytes. <i>Pharmacognosy Journal</i> , 2017, 9, 302-309.	0.3	6
33	Thidiazuron Induced Direct Shoot Organogenesis in <i>Stevia rebaudiana</i> and Assessment of Clonal Fidelity of Regenerated Plants by RAPD and ISSR. International Journal of Current Microbiology and Applied Sciences, 2017, 6, 1690-1702.	0.0	6
34	Nano-strategies as Oral Drug Delivery Platforms for Treatment of Cancer: Challenges and Future Perspectives. <i>AAPS PharmSciTech</i> , 2022, 23, .	1.5	6
35	Protein landmarks for diversity assessment in wheat genotypes. <i>African Journal of Biotechnology</i> , 2013, 12, 4640-4647.	0.3	5
36	Extraction and Evaluation of Antioxidant and Free Radical Scavenging Potential Correlated with Biochemical Components of Red Rose Petals. <i>Iranian Journal of Science and Technology, Transaction A: Science</i> , 2018, 42, 1027-1036.	0.7	5

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37	Simultaneous Estimation of Twenty Eight Phenolic Compounds by a Novel and Expeditious Method Developed on Quaternary Ultra-Performance Liquid Chromatography System with a Photodiode Array Detector. <i>Biomolecules</i> , 2020, 10, 6.	1.8	5
38	Properties and Types of Chitosan-Based Nanomaterials. <i>SpringerBriefs in Plant Science</i> , 2016, , 23-32.	0.4	5
39	Assessment of Cu- Chitosan Nanoparticles for its Antibacterial Activity against <i>Pseudomonas syringae</i> pv. <i>glycinea</i> . <i>International Journal of Current Microbiology and Applied Sciences</i> , 2017, 6, 1335-1350.	0.0	5
40	Nano-materials for plant protection with special reference to Nano-chitosan. , 2014, , .		5
41	<i>Glycyrrhiza glabra</i> : An Insight to Nanomedicine. <i>Journal of Nanoscience and Nanotechnology</i> , 2021, 21, 3367-3378.	0.9	5
42	Current and Future Prospects of Chitosan-Based Nanomaterials in Plant Protection and Growth. <i>SpringerBriefs in Plant Science</i> , 2016, , 43-48.	0.4	4
43	Current Status of <i>Bacillus thuringiensis</i> : Insecticidal Crystal Proteins and Transgenic Crops. , 2016, , 657-698.		3
44	Biological Activities of Chitosan-Based Nanomaterials. <i>SpringerBriefs in Plant Science</i> , 2016, , 33-41.	0.4	2
45	Bioproduction of Diosgenin in Callus Cultures of <i>Balanites aegyptiaca</i> : Effect of Growth Regulators, Explants and Somatic Embryogenesis. <i>Natural Product Communications</i> , 2006, 1, 1934578X0600100.	0.2	1
46	Intervention of Fungi in Nano-Particle Technology and Applications. <i>Fungal Biology</i> , 2016, , 241-251.	0.3	1
47	Differential stem reserve food mobilization and sink strength in rice cultivars grown under submerged and aerobic conditions. <i>Journal of Plant Biochemistry and Biotechnology</i> , 0, , 1.	0.9	0
48	In-vitro applications of Nanomaterials for Plants. , 2013, , .		0
49	Synthesis of Chitosan-Based Nanomaterials. <i>SpringerBriefs in Plant Science</i> , 2016, , 5-21.	0.4	0
50	Nanomaterials Synthesis and Characterization. , 2019, , 1-10.		0
51	Thymol Based Nanoemulsions. , 2019, , 164-182.		0
52	Smart Nano-Chitosan for Fungal Disease Control. , 2020, , 23-47.		0