

Anu Kalia

List of Publications by Year in descending order

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Version: 2024-02-01

88
papers

1,680
citations

331670

21
h-index

330143

37
g-index

92
all docs

92
docs citations

92
times ranked

2042
citing authors

#	ARTICLE	IF	CITATIONS
1	Sodium alginate and gum acacia hydrogels of ZnO nanoparticles show wound healing effect on fibroblast cells. <i>International Journal of Biological Macromolecules</i> , 2017, 96, 185-191.	7.5	188
2	Effect of pesticide application on soil microorganisms. <i>Archives of Agronomy and Soil Science</i> , 2011, 57, 569-596.	2.6	158
3	Flower-Based Green Synthesis of Metallic Nanoparticles: Applications beyond Fragrance. <i>Nanomaterials</i> , 2020, 10, 766.	4.1	103
4	Evaluation of Efficacy of ZnO Nanoparticles as Remedial Zinc Nanofertilizer for Rice. <i>Journal of Soil Science and Plant Nutrition</i> , 2019, 19, 379-389.	3.4	99
5	Influence of carboxy methylcellulose, chitosan and beeswax coatings on cold storage life and quality of Kinnow mandarin fruit. <i>Scientia Horticulturae</i> , 2020, 260, 108887.	3.6	64
6	Zinc-Based Nanomaterials for Diagnosis and Management of Plant Diseases: Ecological Safety and Future Prospects. <i>Journal of Fungi (Basel, Switzerland)</i> , 2020, 6, 222.	3.5	54
7	Nanohybrid Antifungals for Control of Plant Diseases: Current Status and Future Perspectives. <i>Journal of Fungi (Basel, Switzerland)</i> , 2021, 7, 48.	3.5	54
8	Seed Priming and Coating by Nano-Scale Zinc Oxide Particles Improved Vegetative Growth, Yield and Quality of Fodder Maize (<i>Zea mays</i>). <i>Agronomy</i> , 2021, 11, 729.	3.0	49
9	Novel Trends to Revolutionize Preservation and Packaging of Fruits/Fruit Products: Microbiological and Nanotechnological Perspectives. <i>Critical Reviews in Food Science and Nutrition</i> , 2015, 55, 159-182.	10.3	43
10	Characterization of magnetic nanoparticle-immobilized cellulases for enzymatic saccharification of rice straw. <i>Biomass Conversion and Biorefinery</i> , 2021, 11, 955-969.	4.6	42
11	Nettle-Leaf Extract Derived ZnO/CuO Nanoparticle-Biopolymer-Based Antioxidant and Antimicrobial Nanocomposite Packaging Films and Their Impact on Extending the Post-Harvest Shelf Life of Guava Fruit. <i>Biomolecules</i> , 2021, 11, 224.	4.0	40
12	Accelerated healing of full thickness excised skin wound in rabbits using single application of alginate/acacia based nanocomposites of ZnO nanoparticles. <i>International Journal of Biological Macromolecules</i> , 2020, 155, 823-833.	7.5	37
13	Pleurotus Macrofungi-Assisted Nanoparticle Synthesis and Its Potential Applications: A Review. <i>Journal of Fungi (Basel, Switzerland)</i> , 2020, 6, 351.	3.5	36
14	Effect of biodegradable chitosan-rice starch nanocomposite films on post-harvest quality of stored peach fruit. <i>Starch/Staerke</i> , 2017, 69, 1600208.	2.1	35
15	Conifer-Derived Metallic Nanoparticles: Green Synthesis and Biological Applications. <i>International Journal of Molecular Sciences</i> , 2020, 21, 9028.	4.1	31
16	ZnO nanoparticles induced exopolysaccharide production by <i>B. subtilis</i> strain JCT1 for arid soil applications. <i>International Journal of Biological Macromolecules</i> , 2014, 65, 362-368.	7.5	30
17	Textural, microstructural, and dynamic rheological properties of low-fat meat emulsion containing aloe gel as potential fat replacer. <i>International Journal of Food Properties</i> , 2017, 20, S1132-S1144.	3.0	29
18	Red rot resistant transgenic sugarcane developed through expression of β -1,3-glucanase gene. <i>PLoS ONE</i> , 2017, 12, e0179723.	2.5	29

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19	Size controlled, time-efficient biosynthesis of silver nanoparticles from <i>Pleurotus florida</i> using ultra-violet, visible range, and microwave radiations. <i>Inorganic and Nano-Metal Chemistry</i> , 2020, 50, 35-41.	1.6	27
20	Novel nanocomposite-based controlled-release fertilizer and pesticide formulations: Prospects and challenges. , 2020, , 99-134.		27
21	Biosynthesized silver nanoparticles from aqueous extracts of sweet lime fruit and callus tissues possess variable antioxidant and antimicrobial potentials. <i>Inorganic and Nano-Metal Chemistry</i> , 2020, 50, 1053-1062.	1.6	25
22	Interaction of TiO ₂ nanoparticles with soil: Effect on microbiological and chemical traits. <i>Chemosphere</i> , 2022, 301, 134629.	8.2	25
23	Proteomics: A Paradigm Shift. <i>Critical Reviews in Biotechnology</i> , 2005, 25, 173-198.	9.0	23
24	Selenium biofortification of <i>Pleurotus</i> species and its effect on yield, phytochemical profiles, and protein chemistry of fruiting bodies. <i>Journal of Food Biochemistry</i> , 2018, 42, e12467.	2.9	23
25	Antimicrobial Activity of Potato Starch-Based Active Biodegradable Nanocomposite Films. <i>Potato Research</i> , 2019, 62, 69-83.	2.7	22
26	Potential Indicators of Soil Health Degradation in Different Land Use-Based Ecosystems in the Shiwaliks of Northwestern India. <i>Sustainability</i> , 2019, 11, 3908.	3.2	22
27	Agroinfiltration Mediated Scalable Transient Gene Expression in Genome Edited Crop Plants. <i>International Journal of Molecular Sciences</i> , 2021, 22, 10882.	4.1	21
28	Biosorption and Bioleaching of Heavy Metals from Electronic Waste Varied with Microbial Genera. <i>Sustainability</i> , 2022, 14, 935.	3.2	20
29	Trichoderma: An Eco-Friendly Source of Nanomaterials for Sustainable Agroecosystems. <i>Journal of Fungi</i> (Basel, Switzerland), 2022, 8, 367.	3.5	19
30	Chitosan-Urea Nanocomposite for Improved Fertilizer Applications: The Effect on the Soil Enzymatic Activities and Microflora Dynamics in N Cycle of Potatoes (<i>Solanum tuberosum</i> L.). <i>Polymers</i> , 2021, 13, 2887.	4.5	18
31	Nano-biofertilizers: Harnessing Dual Benefits of Nano-nutrient and Bio-fertilizers for Enhanced Nutrient Use Efficiency and Sustainable Productivity. , 2019, , 51-73.		17
32	Trichogenic Silver-Based Nanoparticles for Suppression of Fungi Involved in Damping-Off of Cotton Seedlings. <i>Microorganisms</i> , 2022, 10, 344.	3.6	17
33	Myco-decontamination of azo dyes: nano-augmentation technologies. <i>3 Biotech</i> , 2020, 10, 384.	2.2	14
34	Antifungal Nano-Therapy in Veterinary Medicine: Current Status and Future Prospects. <i>Journal of Fungi</i> (Basel, Switzerland), 2021, 7, 494.	3.5	13
35	Synthesis of Silver Nanoparticles from <i>Pleurotus florida</i> , Characterization and Analysis of their Antimicrobial Activity. <i>International Journal of Current Microbiology and Applied Sciences</i> , 2018, 7, 4085-4095.	0.1	12
36	Isolation of endophytic actinomycetes from <i>Syzygium cumini</i> and their antimicrobial activity against human pathogens. <i>Journal of Applied and Natural Science</i> , 2016, 8, 416-422.	0.4	12

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37	Assessing the Benefits of Azotobacter Bacterization in Sugarcane: A Field Appraisal. Sugar Tech, 2012, 14, 61-67.	1.8	11
38	Nanoscale Fertilizers: Harnessing Boons for Enhanced Nutrient Use Efficiency and Crop Productivity. Nanotechnology in the Life Sciences, 2019, , 191-208.	0.6	11
39	Development of nano-silver alkaline protease bio-conjugate depilating eco-benign formulation by utilizing potato peel based medium. International Journal of Biological Macromolecules, 2020, 152, 261-271.	7.5	10
40	Bio-inoculants enhance growth, nutrient uptake, and buddability of citrus plants under protected nursery conditions. Communications in Soil Science and Plant Analysis, 2018, 49, 2571-2586.	1.4	9
41	Foot rot tolerant transgenic rough lemon rootstock developed through expression of β -1,3-glucanase from Trichoderma spp.. Plant Biotechnology Journal, 2019, 17, 2023-2025.	8.3	9
42	Role of salt precursors for the synthesis of zinc oxide nanoparticles and in imparting variable antimicrobial activity. Journal of Applied and Natural Science, 2016, 8, 1039-1048.	0.4	9
43	Generation of interspecific hybrids between Trifolium vesiculosum and T. alexandrinum using embryo rescue. Euphytica, 2017, 213, 1.	1.2	8
44	Antifungal effect of <i>Trichoderma</i> spp. β -1,3-glucanase on <i>Phytophthora parasitica</i> : Hyphal morphological distortions. Journal of Phytopathology, 2020, 168, 700-706.	1.0	8
45	Differential Antimycotic and Antioxidant Potentials of Chemically Synthesized Zinc-Based Nanoparticles Derived from Different Reducing/Complexing Agents against Pathogenic Fungi of Maize Crop. Journal of Fungi (Basel, Switzerland), 2021, 7, 223.	3.5	8
46	Selenium stress in Ganoderma lucidum: A scanning electron microscopy appraisal. African Journal of Microbiology Research, 2015, 9, 855-862.	0.4	7
47	Characterization and genome sequencing of three Aeromonas hydrophila-specific phages, CF8, PS1, and PS2. Archives of Virology, 2020, 165, 1675-1678.	2.1	7
48	Nanomaterials and Vegetable Crops: Realizing the Concept of Sustainable Production. , 2019, , 323-353.		7
49	Single step direct transgenic plant regeneration from adventive embryos of agro-infected sugarcane (Saccharum spp.) spindle leaf roll segments with assured genetic fidelity. Plant Cell, Tissue and Organ Culture, 2016, 125, 149-162.	2.3	6
50	Alterations in Growth and Morphology of Ganoderma lucidum and Volvariella volvaceae in Response to Nanoparticle Supplementation. Mycobiology, 2020, 48, 383-391.	1.7	6
51	Scanning Electron Microscopy study of root tissue of muskmelon: Transferring Fusarium wilt resistance from snapmelon to muskmelon. Journal of Applied and Natural Science, 2017, 9, 1317-1323.	0.4	6
52	Biosynthesis of Nanoparticles Using Mushrooms. Fungal Biology, 2018, , 351-360.	0.6	5
53	Bacterial Inoculants: How Can These Microbes Sustain Soil Health and Crop Productivity?. Soil Biology, 2020, , 337-372.	0.8	5
54	Single-Cell Omics in Crop Plants: Opportunities and Challenges. , 2019, , 341-355.		4

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55	Nanofertilizers. , 2018, , 45-61.		4
56	Piriformospora indica: Perspectives and Retrospectives. Soil Biology, 2013, , 53-77.	0.8	3
57	Nanotechnology in Bioengineering. , 2018, , 211-229.		3
58	Chitosan-urea nano-formulation: synthesis, characterization and impact on tuber yield of potato. Acta Horticulturae, 2019, , 97-106.	0.2	3
59	Leaf morpho-anatomical diversity analysis in mandarin (Citrus reticulata Blanco) genotypes using scanning electron microscopy. Genetic Resources and Crop Evolution, 2020, 67, 2173-2194.	1.6	3
60	Inheritance analysis and identification of SSR markers associated with fusarium wilt resistance in melon. Journal of Horticultural Science and Biotechnology, 2022, 97, 66-74.	1.9	3
61	Bacillus circulans MTCC 7906 aided facile development of bioconjugate nano-silica alkaline protease formulation with superlative dehairing potential. Environmental Pollution, 2021, 285, 117181.	7.5	3
62	Fungal Phytohormones: Plant Growth-Regulating Substances and Their Applications in Crop Productivity. Fungal Biology, 2020, , 143-169.	0.6	3
63	Penicillium oxalicum spg1: A novel entomopathogenic fungus isolated from mummified Bemisia tabaci (Gennadius) of cotton. Journal of Applied and Natural Science, 2018, 10, 138-143.	0.4	3
64	Edible coatings maintain the phytochemicals in cold-stored Kinnow™ mandarin (Citrus nobilis Lour x) Tj ETQq0 0 0 rgBT ₃ /Overlock	0.3	3
65	Low-cost <sc>nano-TiO ₂ </sc> composites for remediation of textile dyes: Appraisal on the effect of solar and ultraviolet irradiations. Microscopy Research and Technique, 2021, 84, 2219-2235.	2.2	2
66	Nano-Enabled Technological Interventions for Sustainable Production, Protection, and Storage of Fruit Crops. , 2019, , 299-322.		2
67	Production of Interspecific Hybrids between Pearl Millet [Pennisetum glaucum (L.) R. Br.] – Napier Grass [Pennisetum purpureum (K.) Schum] and their Characterization. International Journal of Current Microbiology and Applied Sciences, 2019, 8, 1308-1313.	0.1	2
68	Agri-Applications of Nano-Scale Micronutrients. , 2019, , 81-105.		2
69	Comparison of various delignification/desilication pre-treatments and indigenous fungal cellulase for improved hydrolysis of paddy straw. 3 Biotech, 2022, 12, .	2.2	2
70	Pharmaceutic Prodigy of Ergosterol and Protein Profile of Ganoderma lucidum. Fungal Biology, 2018, , 227-241.	0.6	1
71	Nano-Revolution in Beverage Industry: Tailoring Nano-Engineering to Consummate Novel Processing and Packaging Panacea. , 2019, , 163-190.		1
72	Nano-Delivery Carriers for Enhanced Bioavailability of Antitumor Phytochemicals. , 2020, , 189-196.		1

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73	High-Performance Liquid Chromatography Studies to Estimate Ergosterol Content at Different Developmental Stages of the Lingzhi or Reishi Medicinal Mushroom, <i>Ganoderma lucidum</i> (Agaricomycetes). International Journal of Medicinal Mushrooms, 2016, 18, 1115-1120.	1.5	1
74	Assessing the effect of nanoparticles on hyphal growth and sporulation in <i>Ganoderma lucidum</i> . , 2016, , .		1
75	Assessment of bioactivity of endophytic actinomycetes from some medicinal plants. Agricultural Research Journal, 2017, 54, 58.	0.2	1
76	Scanning electron microscopic studies of <i>Beauveria bassiana</i> against <i>Lipaphis erysimi</i> Kalt. Journal of Applied and Natural Science, 2017, 9, 461-465.	0.4	1
77	Appraisal of Seed Priming with Liquid Microbial Inoculants on Growth and Yield Attributes of Forage Cowpea. Legume Research, 2020, , .	0.1	1
78	Variability in Morphology and Composition of Silica Nanoparticles Derived from Different Paddy Cultivars. Current Science, 2020, 119, 335.	0.8	1
79	Differential Effects of Plant Growth-Promoting Rhizobacteria Used as Soil Application vis-À-vis Root Dip of Seedlings on the Performance of Onion (<i>Allium cepa</i> L.) in Three Distinct Agro-climatic Zones of Indian Punjab. Communications in Soil Science and Plant Analysis, 0, , 1-20.	1.4	1
80	Fabrication and characterization of nano-hydroxyapatite particles and assessment of the effect of their supplementation on growth of bacterial root endosymbionts of cowpea. Inorganic and Nano-Metal Chemistry, 0, , 1-11.	1.6	1
81	Effect of storage duration and osmo-conditioning on microbiological status and germination of "MS-1" muskmelon seeds. Acta Horticulturae, 2019, , 167-172.	0.2	0
82	Advanced Molecular and Microspectroscopy Toolbox for Deciphering Soil Diazotroph Diversity. Soil Biology, 2014, , 37-60.	0.8	0
83	Profiling of Intra- and Extracellular Enzymes Involved in Fructification of the Lingzhi or Reishi Medicinal Mushroom, <i>Ganoderma lucidum</i> (Agaricomycetes). International Journal of Medicinal Mushrooms, 2018, 20, 1209-1221.	1.5	0
84	Chemical characterization and antimycotic potential of <i>Azadirachta indica</i> L. leaf extracts against <i>Penicillium digitatum</i> of kinnow fruit. Allelopathy Journal, 2019, 47, 243-256.	0.5	0
85	Optimization of Process Variables and Validation of The Models for Nano-Particle Embedded Biodegradable Polymers for Packaging. International Journal of Bio-resource and Stress Management, 2020, 11, 335-344.	0.2	0
86	Lipid and carbohydrate trigger in microalgae in response to salt stress for biofuel production. Agricultural Research Journal, 2020, 57, 395.	0.2	0
87	Plant-Microbe Interactions: Applications for Plant-Growth Promotion and In Situ Agri-waste Management. , 2020, , 49-69.		0
88	Colchicine-induced chromosome doubling in <i>Pennisetum</i> interspecific hybrids and its effect on plant morphology. Indian Journal of Genetics and Plant Breeding, 2020, 80, .	0.5	0