Anu Kalia

List of Publications by Year
in descending order

88 papers	1,680 citations	331642 21 h-index	330122 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. International Journal of Biological Macromolecules, 2017, 96, 185-191.	7.5	188
2	Effect of pesticide application on soil microorganisms. Archives of Agronomy and Soil Science, 2011, 57, 569-596.	2.6	158
3	Flower-Based Green Synthesis of Metallic Nanoparticles: Applications beyond Fragrance. Nanomaterials, 2020, 10, 766.	4.1	103
4	Evaluation of Efficacy of ZnO Nanoparticles as Remedial Zinc Nanofertilizer for Rice. Journal of Soil Science and Plant Nutrition, 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. Scientia Horticulturae, 2020, 260, 108887.	3.6	64
6	Zinc-Based Nanomaterials for Diagnosis and Management of Plant Diseases: Ecological Safety and Future Prospects. Journal of Fungi (Basel, Switzerland), 2020, 6, 222.	3.5	54
7	Nanohybrid Antifungals for Control of Plant Diseases: Current Status and Future Perspectives. Journal of Fungi (Basel, Switzerland), 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 (Zea mays). Agronomy, 2021, 11, 729.	3.0	49
9	Novel Trends to Revolutionize Preservation and Packaging of Fruits/Fruit Products: Microbiological and Nanotechnological Perspectives. Critical Reviews in Food Science and Nutrition, 2015, 55, 159-182.	10.3	43
10	Characterization of magnetic nanoparticleâ€“immobilized cellulases for enzymatic saccharification of rice straw. Biomass Conversion and Biorefinery, 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. Biomolecules, 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. International Journal of Biological Macromolecules, 2020, 155, 823-833.	7.5	37
13	Pleurotus Macrofungi-Assisted Nanoparticle Synthesis and Its Potential Applications: A Review. Journal of Fungi (Basel, Switzerland), 2020, 6, 351.	3.5	36
14	Effect of biodegradable chitosanâ€“riceâ€starch nanocomposite films on postâ€harvest quality of stored peach fruit. Starch/Staerke, 2017, 69, 1600208.	2.1	35
15	Conifer-Derived Metallic Nanoparticles: Green Synthesis and Biological Applications. International Journal of Molecular Sciences, 2020, 21, 9028.	4.1	31
16	ZnO nanoparticles induced exopolysaccharide production by B. subtilis strain JCT1 for arid soil applications. International Journal of Biological Macromolecules, 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. International Journal of Food Properties, 2017, 20, S1132-S1144.	3.0	29
18	Red rot resistant transgenic sugarcane developed through expression of Î²-1,3-glucanase gene. PLoS ONE, 2017, 12, e0179723.	2.5	29

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19	Size controlled, time-efficient biosynthesis of silver nanoparticles from Pleurotus florida using ultra-violet, visible range, and microwave radiations. Inorganic and Nano-Metal Chemistry, 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. Inorganic and Nano-Metal Chemistry, 2020, 50, 1053-1062.	1.6	25
22	Interaction of TiO2 nanoparticles with soil: Effect on microbiological and chemical traits. Chemosphere, 2022, 301, 134629.	8.2	25
23	Proteomics: A Paradigm Shift. Critical Reviews in Biotechnology, 2005, 25, 173-198.	9.0	23
24	Selenium biofortification ofPleurotusspecies and its effect on yield, phytochemical profiles, and protein chemistry of fruiting bodies. Journal of Food Biochemistry, 2018, 42, e12467.	2.9	23
25	Antimicrobial Activity of Potato Starch-Based Active Biodegradable Nanocomposite Films. Potato Research, 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. Sustainability, 2019, 11, 3908.	3.2	22
27	Agroinfiltration Mediated Scalable Transient Gene Expression in Genome Edited Crop Plants. International Journal of Molecular Sciences, 2021, 22, 10882.	4.1	21
28	Biosorption and Bioleaching of Heavy Metals from Electronic Waste Varied with Microbial Genera. Sustainability, 2022, 14, 935.	3.2	20
29	Trichoderma: An Eco-Friendly Source of Nanomaterials for Sustainable Agroecosystems. Journal of Fungi (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 (Solanum tuberosum L.). Polymers, 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. Microorganisms, 2022, 10, 344.	3.6	17
33	Myco-decontamination of azo dyes: nano-augmentation technologies. 3 Biotech, 2020, 10, 384.	2.2	14
34	Antifungal Nano-Therapy in Veterinary Medicine: Current Status and Future Prospects. Journal of Fungi (Basel, Switzerland), 2021, 7, 494.	3.5	13
35	Synthesis of Silver Nanoparticles from Pleurotus florida, Characterization and Analysis of their Antimicrobial Activity. International Journal of Current Microbiology and Applied Sciences, 2018, 7, 4085-4095.	0.1	12
36	Isolation of endophytic actinomycetes from Syzygium cumini and their antimicrobial activity against human pathogens. Journal of Applied and Natural Science, 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 Î²â€1,3â€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 Trichoderma spp. Î²â€1,3â€glucanase on Phytophthora parasitica: 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	Penicillum 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 â€˜Kinnowâ€™ mandarin (Citrus nobilis Lour x) Tj ETQq0 0 0 rgBT /Overlock	0.3	3
65	Lowâ€cost <scp>nanoâ€TiO₂</scp> 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.] Ã— 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, Ganoderma lucidum (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 Ganoderma lucidum. , 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 Beauveria bassiana against Lipaphis erysimi 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-Ã-vis Root Dip of Seedlings on the Performance of Onion (Allium cepa 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 â€˜MS-1â€™ 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, Ganoderma lucidum (Agaricomycetes). International Journal of Medicinal Mushrooms, 2018, 20, 1209-1221.	1.5	0
84	Chemical characterization and antimycotic potential of Azadirachta indica L. leaf extracts against Penicillium digitatum 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 Pennisetum interspecific hybrids and its effect on plant morphology. Indian Journal of Genetics and Plant Breeding, 2020, 80, .	0.5	0