Rajender Kumar

List of Publications by Year
in descending order

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84	2,995	172457	182427
papers	citations	29 h-index	51 g-index

88	88	88	3339
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	MicroRNAs As Potential Targets for Abiotic Stress Tolerance in Plants. Frontiers in Plant Science, 2016, 7, 817.	3.6	299
2	Applications of carbon nanomaterials in the plant system: A perspective view on the pros and cons. Science of the Total Environment, 2019, 667, 485-499.	8.0	210
3	Engineered nanomaterials for plant growth and development: A perspective analysis. Science of the Total Environment, 2018, 630, 1413-1435.	8.0	196
4	Inhibiting Bacterial Drug Efflux Pumps via Phyto-Therapeutics to Combat Threatening Antimicrobial Resistance. Frontiers in Microbiology, 2018, 9, 2990.	3.5	124
5	Engineering salinity tolerance in plants: progress and prospects. Planta, 2020, 251, 76.	3.2	123
6	The alarming antimicrobial resistance in ESKAPEE pathogens: Can essential oils come to the rescue?. FÃ¬toterapÃ¬Ã¢, 2020, 140, 104433.	2.2	92
7	Biopolymer poly-hydroxyalkanoates (PHA) production from apple industrial waste residues: A review. Chemosphere, 2021, 284, 131427.	8.2	92
8	Plant small RNAs: the essential epigenetic regulators of gene expression for salt-stress responses and tolerance. Plant Cell Reports, 2018, 37, 61-75.	5.6	87
9	Exploring Phytochemicals for Combating Antibiotic Resistance in Microbial Pathogens. Frontiers in Pharmacology, 2021, 12, 720726.	3.5	81
10	Structure-Based Virtual Screening to Discover Potential Lead Molecules for the SARS-CoV-2 Main Protease. Journal of Chemical Information and Modeling, 2020, 60, 5781-5793.	5.4	76
11	Current perspectives for microbial lipases from extremophiles and metagenomics. Biochimie, 2021, 182, 23-36.	2.6	71
12	Transcriptional regulation of osmotic stress tolerance in wheat (Triticum aestivum L.). Plant Molecular Biology, 2018, 97, 469-487.	3.9	67
13	Current Trends in the Application of Nanomaterials for the Removal of Pollutants from Industrial Wastewater Treatmentâ€"A Review. Molecules, 2021, 26, 2799.	3.8	61
14	Microplastic-associated pathogens and antimicrobial resistance in environment. Chemosphere, 2022, 291, 133005.	8.2	58
15	Antimicrobial potentials of Helicteres isora silver nanoparticles against extensively drug-resistant (XDR) clinical isolates of Pseudomonas aeruginosa. Applied Microbiology and Biotechnology, 2015, 99, 10655-10667.	3.6	57
16	Carica papaya loaded poly (vinyl alcohol)-gelatin nanofibrous scaffold for potential application in wound dressing. Materials Science and Engineering C, 2019, 103, 109834.	7.3	57
17	Exploring miRNAs for developing climate-resilient crops: A perspective review. Science of the Total Environment, 2019, 653, 91-104.	8.0	52
18	Enzymes for pharmaceutical and therapeutic applications. Biotechnology and Applied Biochemistry, 2020, 67, 586-601.	3.1	52

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19	Light Stress Responses and Prospects for Engineering Light Stress Tolerance in Crop Plants. Journal of Plant Growth Regulation, 2019, 38, 1489-1506.	5.1	48
20	Differential growth and yield responses of salt-tolerant and susceptible rice cultivars to individual (Na+ and Clâ^') and additive stress effects of NaCl. Acta Physiologiae Plantarum, 2016, 38, 1.	2.1	45
21	Yttrium oxide nanoparticles reduce the severity of acute pancreatitis caused by cerulein hyperstimulation. Nanomedicine: Nanotechnology, Biology, and Medicine, 2019, 18, 54-65.	3.3	43
22	miRNA applications for engineering abiotic stress tolerance in plants. Biologia (Poland), 2020, 75, 1063-1081.	1.5	43
23	Superoxide dismutase mimetic nanoceria restrains cerulein induced acute pancreatitis. Nanomedicine, 2019, 14, 1805-1825.	3.3	42
24	Reactive Oxygen, Nitrogen, Carbonyl and Sulfur Species and Their Roles in Plant Abiotic Stress Responses and Tolerance. Journal of Plant Growth Regulation, 2022, 41, 119-142.	5.1	42
25	Black soldier fly larvae for organic manure recycling and its potential for a circular bioeconomy: A review. Science of the Total Environment, 2022, 833, 155122.	8.0	40
26	Nitric oxide, crosstalk with stress regulators and plant abiotic stress tolerance. Plant Cell Reports, 2021, 40, 1395-1414.	5.6	39
27	Plant synthetic biology for producing potent phyto-antimicrobials to combat antimicrobial resistance. Biotechnology Advances, 2021, 48, 107729.	11.7	39
28	Bioengineered biochar as smart candidate for resource recovery toward circular bio-economy: a review. Bioengineered, 2021, 12, 10269-10301.	3.2	37
29	Individual and additive effects of Na+and Clâ^'ions on rice under salinity stress. Archives of Agronomy and Soil Science, 2015, 61, 381-395.	2.6	34
30	The Role of ClpB in Bacterial Stress Responses and Virulence. Frontiers in Molecular Biosciences, 2021, 8, 668910.	3.5	34
31	Recent trends and developments on integrated biochemical conversion process for valorization of dairy waste to value added bioproducts: A review. Bioresource Technology, 2022, 344, 126193.	9.6	34
32	Fungal Endophyte: An Interactive Endosymbiont With the Capability of Modulating Host Physiology in Myriad Ways. Frontiers in Plant Science, 2021, 12, 701800.	3.6	33
33	Synthetic organic antibiotics residues as emerging contaminants waste-to-resources processing for a circular economy in China: Challenges and perspective. Environmental Research, 2022, 211, 113075.	7.5	32
34	Combating Drug-Resistant Bacteria Using Photothermally Active Nanomaterials: A Perspective Review. Frontiers in Microbiology, 2021, 12, 747019.	3.5	31
35	Theranostic nanozyme: Silk fibroin based multifunctional nanocomposites to combat oxidative stress. Materials Science and Engineering C, 2020, 107, 110255.	7.3	28
36	Embelin-loaded chitosan gold nanoparticles interact synergistically with ciprofloxacin by inhibiting efflux pumps in multidrug-resistant Pseudomonas aeruginosa and Escherichia coli. Environmental Research, 2021, 199, 111321.	7.5	28

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37	Current state of the art biotechnological strategies for conversion of watermelon wastes residues to biopolymers production: A review. Chemosphere, 2022, 290, 133310.	8.2	25
38	Targeting the Trypanothione Reductase of Tissue-Residing Leishmania in Hostsâ€™ Reticuloendothelial System: A Flexible Water-Soluble Ferrocenylquinoline-Based Preclinical Drug Candidate. Journal of Medicinal Chemistry, 2020, 63, 15621-15638.	6.4	24
39	Individual and additive stress impacts of Na+ and Clâ€¾ on proline metabolism and nitrosative responses in rice. Plant Physiology and Biochemistry, 2020, 152, 44-52.	5.8	22
40	Recent trends and advances in identification and functional characterization of plant miRNAs. Acta Physiologiae Plantarum, 2020, 42, 1.	2.1	22
41	Synthesis and characterization of Cu(OH)2-NWs-PVA-AC Nano-composite and its use as an efficient adsorbent for removal of methylene blue. Scientific Reports, 2021, 11, 5686.	3.3	22
42	Pyridoxal kinase: A vitamin B6 salvage pathway enzyme from Leishmania donovani. International Journal of Biological Macromolecules, 2018, 119, 320-334.	7.5	21
43	Genome-wide identification, characterization and transcriptional profiling of NHX-type (Na+/H+) antiporters under salinity stress in soybean. 3 Biotech, 2021, 11, 16.	2.2	19
44	Prospects of Exploring the Metalâ€“Organic Framework for Combating Antimicrobial Resistance. ACS Applied Bio Materials, 2021, 4, 8060-8079.	4.6	19
45	Biochemical and inhibition studies of glutamine synthetase from Leishmania donovani. Microbial Pathogenesis, 2017, 107, 164-174.	2.9	18
46	Hairy Root Induction in Helicteres isora L. and Production of Diosgenin in Hairy Roots. Natural Products and Bioprospecting, 2014, 4, 107-112.	4.3	17
47	Glycyrrhizic acid attenuates growth of Leishmania donovani by depleting ergosterol levels. Experimental Parasitology, 2017, 176, 21-29.	1.2	16
48	Green synthesis of carbon-based nanomaterials and their applications in various sectors: a topical review. Carbon Letters, 2022, 32, 365-393.	5.9	15
49	Asymbiotic In vitro Seed Germination and Seedling Development of Eulophia nuda Lindl., An Endangered Medicinal Orchid. Proceedings of the National Academy of Sciences India Section B - Biological Sciences, 2014, 84, 837-846.	1.0	14
50	Exploring the Diversity Within the Genus Francisella â€“ An Integrated Pan-Genome and Genome-Mining Approach. Frontiers in Microbiology, 2020, 11, 1928.	3.5	14
51	Identification of new members of alkaliphilic lipases in archaea and metagenome database using reconstruction of ancestral sequences. 3 Biotech, 2019, 9, 165.	2.2	13
52	Cloning, Characterization, and Structural Modeling of an Extremophilic Bacterial Lipase Isolated from Saline Habitats of the Thar Desert. Applied Biochemistry and Biotechnology, 2020, 192, 557-572.	2.9	13
53	Structural and functional insights about unique extremophilic bacterial lipolytic enzyme from metagenome source. International Journal of Biological Macromolecules, 2020, 152, 593-604.	7.5	12
54	Deletion of Glutamine Synthetase Gene Disrupts the Survivability and Infectivity of Leishmania donovani. Frontiers in Cellular and Infection Microbiology, 2021, 11, 622266.	3.9	12

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55	Engineering Crops for the Future: A Phosphoproteomics Approach. Current Protein and Peptide Science, 2018, 19, 413-426.	1.4	11
56	Dissociation between the critical role of ClpB of Francisella tularensis for the heat shock response and the DnaK interaction and its important role for efficient type VI secretion and bacterial virulence. PLoS Pathogens, 2020, 16, e1008466.	4.7	10
57	Efficacy of Reuterin and Bacteriocins Nisin and Pediocin on Preservation of Raw Milk Procured from Dairy Farms. Food Technology and Biotechnology, 2020, 58, 359-369.	2.1	10
58	Molecular Modeling and Active Site Binding Mode Characterization of Aspartate Î²â€Semialdehyde Dehydrogenase Family. Molecular Informatics, 2013, 32, 377-383.	2.5	8
59	Expression, purification, characterization and in silico analysis of newly isolated hydrocarbon degrading bleomycin resistance dioxygenase. Molecular Biology Reports, 2020, 47, 533-544.	2.3	8
60	MicroRNA-mediated bioengineering for climate-resilience in crops. Bioengineered, 2021, 12, 10430-10456.	3.2	8
61	Podophyllum hexandrum and its active constituents: Novel radioprotectants. Biomedicine and Pharmacotherapy, 2022, 146, 112555.	5.6	8
62	Beneficial Role of Selenium (Se) Biofortification in Developing Resilience Against Potentially Toxic Metal and Metalloid Stress in Crops: Recent Trends in Genetic Engineering and Omics Approaches. Journal of Soil Science and Plant Nutrition, 2022, 22, 2347-2377.	3.4	8
63	A perspective review on medicinal plant resources for their antimutagenic potentials. Environmental Science and Pollution Research, 2022, 29, 62014-62029.	5.3	7
64	Production of Effective Phyto-antimicrobials via Metabolic Engineering Strategies. Current Topics in Medicinal Chemistry, 2022, 22, 1068-1092.	2.1	7
65	MicroRNAs and Their Exploration for Developing Heavy Metal-tolerant Plants. Journal of Plant Growth Regulation, 2022, 41, 2579-2595.	5.1	6
66	Ion transporters and their exploration for conferring abiotic stress tolerance in plants. Plant Growth Regulation, 2022, 96, 1-23.	3.4	6
67	Structural exploration of glutamine synthetase from Leishmania donovani: Insights from in silico and in vitro analysis. International Journal of Biological Macromolecules, 2020, 146, 860-874.	7.5	5
68	Identification of 2-arylquinazolines with alkyl-polyamine motifs as potent antileishmanial agents: synthesis and biological evaluation studies. RSC Medicinal Chemistry, 2022, 13, 320-326.	3.9	5
69	Exploring epitranscriptomics for crop improvement and environmental stress tolerance. Plant Physiology and Biochemistry, 2022, 183, 56-71.	5.8	5
70	Transcriptional and postâ€transcriptional mechanisms regulating salt tolerance in plants. Physiologia Plantarum, 2021, 173, 1291-1294.	5.2	4
71	MicroRNAs modulating nutrient homeostasis: a sustainable approach for developing biofortified crops. Protoplasma, 2023, 260, 5-19.	2.1	4
72	Designing peptide-based vaccine candidates for Plasmodium falciparum erythrocyte binding antigen 175. Biologicals, 2020, 67, 42-48.	1.4	3

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73	Genetic Diversity and Phylogenetic Relationship Analysis between Red Jungle Fowl and Domestic Chicken using AFLP Markers. Journal of Poultry Science, 2015, 52, 94-100.	1.6	2
74	A comparative study of integrase-binding domain of homologous HRP2 and LEDGF/p75 protein: from sequence to structural characterisation. Molecular Simulation, 2015, 41, 683-690.	2.0	2
75	Molecular Diversity of Bacterial Î± Subunit of Ring-Hydroxylating Dioxygenases from Cypermethrin and Metal Contaminated Agriculture Soil. Current Biotechnology, 2019, 7, 368-375.	0.4	1
76	Synthesis of Indonesian kaolin-nZVI (IK-nZVI), evaluation for the removal of Pb(II) from waste streams. AIP Conference Proceedings, 2020, , .	0.4	1
77	Protective and Modulatory Effects ofTrapa bispinosaandTrigonella foenum-graecumon Neuroblastoma Cells Through Neuronal Nitric Oxide Synthase. Assay and Drug Development Technologies, 2020, 18, 64-74.	1.2	1
78	Nano-Boehmite Induced Oxidative and Nitrosative Stress Responses in Vigna radiata L.. Journal of Plant Growth Regulation, 0, , 1.	5.1	1
79	One-Step Fabrication of Low-Cost, Autoclavable, and Multifunctional Silk-Based Nanofibrous Permeable Hanging Cell Culture Inserts for Various Biological Applications. ACS Omega, 2021, 6, 7605-7614.	3.5	1
80	Biological Evaluation of Small Molecule Inhibitors of Mtb-ASADH Enzyme. Letters in Drug Design and Discovery, 2016, 13, 587-590.	0.7	1
81	Title is missing!. , 2020, 16, e1008466.		0
82	Title is missing!. , 2020, 16, e1008466.		0
83	Title is missing!. , 2020, 16, e1008466.		0
84	Title is missing!. , 2020, 16, e1008466.		0