

Rajender Kumar

List of Publications by Year in descending order

Source: <https://exaly.com/author-pdf/1287740/publications.pdf>

Version: 2024-02-01

84
papers

2,995
citations

172457

29
h-index

182427

51
g-index

88
all docs

88
docs citations

88
times ranked

3339
citing authors

#	ARTICLE	IF	CITATIONS
1	MicroRNAs modulating nutrient homeostasis: a sustainable approach for developing biofortified crops. <i>Protoplasma</i> , 2023, 260, 5-19.	2.1	4
2	Reactive Oxygen, Nitrogen, Carbonyl and Sulfur Species and Their Roles in Plant Abiotic Stress Responses and Tolerance. <i>Journal of Plant Growth Regulation</i> , 2022, 41, 119-142.	5.1	42
3	A perspective review on medicinal plant resources for their antimutagenic potentials. <i>Environmental Science and Pollution Research</i> , 2022, 29, 62014-62029.	5.3	7
4	MicroRNAs and Their Exploration for Developing Heavy Metal-tolerant Plants. <i>Journal of Plant Growth Regulation</i> , 2022, 41, 2579-2595.	5.1	6
5	Ion transporters and their exploration for conferring abiotic stress tolerance in plants. <i>Plant Growth Regulation</i> , 2022, 96, 1-23.	3.4	6
6	Green synthesis of carbon-based nanomaterials and their applications in various sectors: a topical review. <i>Carbon Letters</i> , 2022, 32, 365-393.	5.9	15
7	Recent trends and developments on integrated biochemical conversion process for valorization of dairy waste to value added bioproducts: A review. <i>Bioresource Technology</i> , 2022, 344, 126193.	9.6	34
8	Microplastic-associated pathogens and antimicrobial resistance in environment. <i>Chemosphere</i> , 2022, 291, 133005.	8.2	58
9	Podophyllum hexandrum and its active constituents: Novel radioprotectants. <i>Biomedicine and Pharmacotherapy</i> , 2022, 146, 112555.	5.6	8
10	Current state of the art biotechnological strategies for conversion of watermelon wastes residues to biopolymers production: A review. <i>Chemosphere</i> , 2022, 290, 133310.	8.2	25
11	Identification of 2-arylquinazolines with alkyl-polyamine motifs as potent antileishmanial agents: synthesis and biological evaluation studies. <i>RSC Medicinal Chemistry</i> , 2022, 13, 320-326.	3.9	5
12	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. <i>Journal of Soil Science and Plant Nutrition</i> , 2022, 22, 2347-2377.	3.4	8
13	Production of Effective Phyto-antimicrobials <i>via</i> Metabolic Engineering Strategies. <i>Current Topics in Medicinal Chemistry</i> , 2022, 22, 1068-1092.	2.1	7
14	Black soldier fly larvae for organic manure recycling and its potential for a circular bioeconomy: A review. <i>Science of the Total Environment</i> , 2022, 833, 155122.	8.0	40
15	Synthetic organic antibiotics residues as emerging contaminants waste-to-resources processing for a circular economy in China: Challenges and perspective. <i>Environmental Research</i> , 2022, 211, 113075.	7.5	32
16	Exploring epitranscriptomics for crop improvement and environmental stress tolerance. <i>Plant Physiology and Biochemistry</i> , 2022, 183, 56-71.	5.8	5
17	Genome-wide identification, characterization and transcriptional profiling of NHX-type (Na ⁺ /H ⁺) antiporters under salinity stress in soybean. <i>3 Biotech</i> , 2021, 11, 16.	2.2	19
18	Deletion of Glutamine Synthetase Gene Disrupts the Survivability and Infectivity of <i>Leishmania donovani</i> . <i>Frontiers in Cellular and Infection Microbiology</i> , 2021, 11, 622266.	3.9	12

#	ARTICLE	IF	CITATIONS
19	One-Step Fabrication of Low-Cost, Autoclavable, and Multifunctional Silk-Based Nanofibrous Permeable Hanging Cell Culture Inserts for Various Biological Applications. <i>ACS Omega</i> , 2021, 6, 7605-7614.	3.5	1
20	Current perspectives for microbial lipases from extremophiles and metagenomics. <i>Biochimie</i> , 2021, 182, 23-36.	2.6	71
21	Synthesis and characterization of Cu(OH) ₂ -NWs-PVA-AC Nano-composite and its use as an efficient adsorbent for removal of methylene blue. <i>Scientific Reports</i> , 2021, 11, 5686.	3.3	22
22	The Role of ClpB in Bacterial Stress Responses and Virulence. <i>Frontiers in Molecular Biosciences</i> , 2021, 8, 668910.	3.5	34
23	Nitric oxide, crosstalk with stress regulators and plant abiotic stress tolerance. <i>Plant Cell Reports</i> , 2021, 40, 1395-1414.	5.6	39
24	Current Trends in the Application of Nanomaterials for the Removal of Pollutants from Industrial Wastewater Treatment—A Review. <i>Molecules</i> , 2021, 26, 2799.	3.8	61
25	Plant synthetic biology for producing potent phyto-antimicrobials to combat antimicrobial resistance. <i>Biotechnology Advances</i> , 2021, 48, 107729.	11.7	39
26	Exploring Phytochemicals for Combating Antibiotic Resistance in Microbial Pathogens. <i>Frontiers in Pharmacology</i> , 2021, 12, 720726.	3.5	81
27	Embelin-loaded chitosan gold nanoparticles interact synergistically with ciprofloxacin by inhibiting efflux pumps in multidrug-resistant <i>Pseudomonas aeruginosa</i> and <i>Escherichia coli</i> . <i>Environmental Research</i> , 2021, 199, 111321.	7.5	28
28	Fungal Endophyte: An Interactive Endosymbiont With the Capability of Modulating Host Physiology in Myriad Ways. <i>Frontiers in Plant Science</i> , 2021, 12, 701800.	3.6	33
29	Biopolymer poly-hydroxyalkanoates (PHA) production from apple industrial waste residues: A review. <i>Chemosphere</i> , 2021, 284, 131427.	8.2	92
30	Bioengineered biochar as smart candidate for resource recovery toward circular bio-economy: a review. <i>Bioengineered</i> , 2021, 12, 10269-10301.	3.2	37
31	MicroRNA-mediated bioengineering for climate-resilience in crops. <i>Bioengineered</i> , 2021, 12, 10430-10456.	3.2	8
32	Combating Drug-Resistant Bacteria Using Photothermally Active Nanomaterials: A Perspective Review. <i>Frontiers in Microbiology</i> , 2021, 12, 747019.	3.5	31
33	Transcriptional and post-transcriptional mechanisms regulating salt tolerance in plants. <i>Physiologia Plantarum</i> , 2021, 173, 1291-1294.	5.2	4
34	Prospects of Exploring the Metal-Organic Framework for Combating Antimicrobial Resistance. <i>ACS Applied Bio Materials</i> , 2021, 4, 8060-8079.	4.6	19
35	Theranostic nanozyme: Silk fibroin based multifunctional nanocomposites to combat oxidative stress. <i>Materials Science and Engineering C</i> , 2020, 107, 110255.	7.3	28
36	Expression, purification, characterization and in silico analysis of newly isolated hydrocarbon degrading bleomycin resistance dioxygenase. <i>Molecular Biology Reports</i> , 2020, 47, 533-544.	2.3	8

#	ARTICLE	IF	CITATIONS
37	miRNA applications for engineering abiotic stress tolerance in plants. <i>Biologia (Poland)</i> , 2020, 75, 1063-1081.	1.5	43
38	Structural exploration of glutamine synthetase from <i>Leishmania donovani</i> : Insights from in silico and in vitro analysis. <i>International Journal of Biological Macromolecules</i> , 2020, 146, 860-874.	7.5	5
39	The alarming antimicrobial resistance in ESKAPEE pathogens: Can essential oils come to the rescue? <i>FÄ-toterapÄ-Äç</i> , 2020, 140, 104433.	2.2	92
40	Structure-Based Virtual Screening to Discover Potential Lead Molecules for the SARS-CoV-2 Main Protease. <i>Journal of Chemical Information and Modeling</i> , 2020, 60, 5781-5793.	5.4	76
41	Designing peptide-based vaccine candidates for <i>Plasmodium falciparum</i> erythrocyte binding antigen 175. <i>Biologicals</i> , 2020, 67, 42-48.	1.4	3
42	Exploring the Diversity Within the Genus <i>Francisella</i> – An Integrated Pan-Genome and Genome-Mining Approach. <i>Frontiers in Microbiology</i> , 2020, 11, 1928.	3.5	14
43	Synthesis of Indonesian kaolin-nZVI (IK-nZVI), evaluation for the removal of Pb(II) from waste streams. <i>AIP Conference Proceedings</i> , 2020, , .	0.4	1
44	Targeting the Trypanothione Reductase of Tissue-Residing <i>Leishmania</i> in Hosts™ Reticuloendothelial System: A Flexible Water-Soluble Ferrocenylquinoline-Based Preclinical Drug Candidate. <i>Journal of Medicinal Chemistry</i> , 2020, 63, 15621-15638.	6.4	24
45	Individual and additive stress impacts of Na ⁺ and Cl ^{3/4} on proline metabolism and nitrosative responses in rice. <i>Plant Physiology and Biochemistry</i> , 2020, 152, 44-52.	5.8	22
46	Cloning, Characterization, and Structural Modeling of an Extremophilic Bacterial Lipase Isolated from Saline Habitats of the Thar Desert. <i>Applied Biochemistry and Biotechnology</i> , 2020, 192, 557-572.	2.9	13
47	Engineering salinity tolerance in plants: progress and prospects. <i>Planta</i> , 2020, 251, 76.	3.2	123
48	Structural and functional insights about unique extremophilic bacterial lipolytic enzyme from metagenome source. <i>International Journal of Biological Macromolecules</i> , 2020, 152, 593-604.	7.5	12
49	Recent trends and advances in identification and functional characterization of plant miRNAs. <i>Acta Physiologiae Plantarum</i> , 2020, 42, 1.	2.1	22
50	Protective and Modulatory Effects of <i>Trapa bispinosa</i> and <i>Trigonella foenum-graecum</i> Neuroblastoma Cells Through Neuronal Nitric Oxide Synthase. <i>Assay and Drug Development Technologies</i> , 2020, 18, 64-74.	1.2	1
51	Dissociation between the critical role of ClpB of <i>Francisella tularensis</i> for the heat shock response and the DnaK interaction and its important role for efficient type VI secretion and bacterial virulence. <i>PLoS Pathogens</i> , 2020, 16, e1008466.	4.7	10
52	Enzymes for pharmaceutical and therapeutic applications. <i>Biotechnology and Applied Biochemistry</i> , 2020, 67, 586-601.	3.1	52
53	Efficacy of Reuterin and Bacteriocins Nisin and Pediocin on Preservation of Raw Milk Procured from Dairy Farms. <i>Food Technology and Biotechnology</i> , 2020, 58, 359-369.	2.1	10
54	Title is missing!. , 2020, 16, e1008466.		0

#	ARTICLE	IF	CITATIONS
55	Title is missing!. , 2020, 16, e1008466.		0
56	Title is missing!. , 2020, 16, e1008466.		0
57	Title is missing!. , 2020, 16, e1008466.		0
58	Superoxide dismutase mimetic nanoceria restrains cerulein induced acute pancreatitis. <i>Nanomedicine</i> , 2019, 14, 1805-1825.	3.3	42
59	Molecular Diversity of Bacterial Î± Subunit of Ring-Hydroxylating Dioxygenases from Cypermethrin and Metal Contaminated Agriculture Soil. <i>Current Biotechnology</i> , 2019, 7, 368-375.	0.4	1
60	Carica papaya loaded poly (vinyl alcohol)-gelatin nanofibrous scaffold for potential application in wound dressing. <i>Materials Science and Engineering C</i> , 2019, 103, 109834.	7.3	57
61	Light Stress Responses and Prospects for Engineering Light Stress Tolerance in Crop Plants. <i>Journal of Plant Growth Regulation</i> , 2019, 38, 1489-1506.	5.1	48
62	Yttrium oxide nanoparticles reduce the severity of acute pancreatitis caused by cerulein hyperstimulation. <i>Nanomedicine: Nanotechnology, Biology, and Medicine</i> , 2019, 18, 54-65.	3.3	43
63	Identification of new members of alkaliphilic lipases in archaea and metagenome database using reconstruction of ancestral sequences. <i>3 Biotech</i> , 2019, 9, 165.	2.2	13
64	Applications of carbon nanomaterials in the plant system: A perspective view on the pros and cons. <i>Science of the Total Environment</i> , 2019, 667, 485-499.	8.0	210
65	Exploring miRNAs for developing climate-resilient crops: A perspective review. <i>Science of the Total Environment</i> , 2019, 653, 91-104.	8.0	52
66	Engineered nanomaterials for plant growth and development: A perspective analysis. <i>Science of the Total Environment</i> , 2018, 630, 1413-1435.	8.0	196
67	Plant small RNAs: the essential epigenetic regulators of gene expression for salt-stress responses and tolerance. <i>Plant Cell Reports</i> , 2018, 37, 61-75.	5.6	87
68	Inhibiting Bacterial Drug Efflux Pumps via Phyto-Therapeutics to Combat Threatening Antimicrobial Resistance. <i>Frontiers in Microbiology</i> , 2018, 9, 2990.	3.5	124
69	Pyridoxal kinase: A vitamin B6 salvage pathway enzyme from <i>Leishmania donovani</i> . <i>International Journal of Biological Macromolecules</i> , 2018, 119, 320-334.	7.5	21
70	Transcriptional regulation of osmotic stress tolerance in wheat (<i>Triticum aestivum</i> L.). <i>Plant Molecular Biology</i> , 2018, 97, 469-487.	3.9	67
71	Engineering Crops for the Future: A Phosphoproteomics Approach. <i>Current Protein and Peptide Science</i> , 2018, 19, 413-426.	1.4	11
72	Glycyrrhizic acid attenuates growth of <i>Leishmania donovani</i> by depleting ergosterol levels. <i>Experimental Parasitology</i> , 2017, 176, 21-29.	1.2	16

#	ARTICLE	IF	CITATIONS
73	Biochemical and inhibition studies of glutamine synthetase from <i>Leishmania donovani</i> . <i>Microbial Pathogenesis</i> , 2017, 107, 164-174.	2.9	18
74	MicroRNAs As Potential Targets for Abiotic Stress Tolerance in Plants. <i>Frontiers in Plant Science</i> , 2016, 7, 817.	3.6	299
75	Differential growth and yield responses of salt-tolerant and susceptible rice cultivars to individual (Na ⁺ and Cl ⁻) and additive stress effects of NaCl. <i>Acta Physiologiae Plantarum</i> , 2016, 38, 1.	2.1	45
76	Biological Evaluation of Small Molecule Inhibitors of Mtb-ASADH Enzyme. <i>Letters in Drug Design and Discovery</i> , 2016, 13, 587-590.	0.7	1
77	Genetic Diversity and Phylogenetic Relationship Analysis between Red Jungle Fowl and Domestic Chicken using AFLP Markers. <i>Journal of Poultry Science</i> , 2015, 52, 94-100.	1.6	2
78	A comparative study of integrase-binding domain of homologous HRP2 and LEDGF/p75 protein: from sequence to structural characterisation. <i>Molecular Simulation</i> , 2015, 41, 683-690.	2.0	2
79	Antimicrobial potentials of <i>Helicteres isora</i> silver nanoparticles against extensively drug-resistant (XDR) clinical isolates of <i>Pseudomonas aeruginosa</i> . <i>Applied Microbiology and Biotechnology</i> , 2015, 99, 10655-10667.	3.6	57
80	Individual and additive effects of Na ⁺ and Cl ⁻ ions on rice under salinity stress. <i>Archives of Agronomy and Soil Science</i> , 2015, 61, 381-395.	2.6	34
81	Hairy Root Induction in <i>Helicteres isora</i> L. and Production of Diosgenin in Hairy Roots. <i>Natural Products and Bioprospecting</i> , 2014, 4, 107-112.	4.3	17
82	Asymbiotic In vitro Seed Germination and Seedling Development of <i>Eulophia nuda</i> Lindl., An Endangered Medicinal Orchid. <i>Proceedings of the National Academy of Sciences India Section B - Biological Sciences</i> , 2014, 84, 837-846.	1.0	14
83	Molecular Modeling and Active Site Binding Mode Characterization of Aspartate β -Semiaidehyde Dehydrogenase Family. <i>Molecular Informatics</i> , 2013, 32, 377-383.	2.5	8
84	Nano-Boehmite Induced Oxidative and Nitrosative Stress Responses in <i>Vigna radiata</i> L.. <i>Journal of Plant Growth Regulation</i> , 0, , 1.	5.1	1