

# Tapan Kumar Mohanta

## List of Publications by Year in descending order

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Version: 2024-02-01

89  
papers

5,445  
citations

147726

31  
h-index

85498

71  
g-index

108  
all docs

108  
docs citations

108  
times ranked

7091  
citing authors

#	ARTICLE	IF	CITATIONS
1	<i>In silico</i> evaluation of NO donor heterocyclic vasodilators as SARS-CoV-2 M <sup>pro</sup> inhibitor. Journal of Biomolecular Structure and Dynamics, 2023, 41, 280-297.	2.0	3
2	Exploring the Bioactive Potentials of C60-AgNPs Nano-Composites against Malignancies and Microbial Infections. International Journal of Molecular Sciences, 2022, 23, 714.	1.8	10
3	Edible Mushrooms as Novel Myco-Therapeutics: Effects on Lipid Level, Obesity and BMI. Journal of Fungi (Basel, Switzerland), 2022, 8, 211.	1.5	14
4	Exploring Dose-Dependent Cytotoxicity Profile of Gracilaria edulis-Mediated Green Synthesized Silver Nanoparticles against MDA-MB-231 Breast Carcinoma. Oxidative Medicine and Cellular Longevity, 2022, 1-15.	1.9	14
5	Plant Source Derived Compound Exhibited <i>In Silico</i> Inhibition of Membrane Glycoprotein In SARS-CoV-2: Paving the Way to Discover a New Class of Compound For Treatment of COVID-19. Frontiers in Pharmacology, 2022, 13, 805344.	1.6	3
6	N-glycosylation, a leading role in viral infection and immunity development. Molecular Biology Reports, 2022, 49, 8109-8120.	1.0	18
7	PlantMWpIDB: a database for the molecular weight and isoelectric points of the plant proteomes. Scientific Reports, 2022, 12, 7421.	1.6	2
8	Physicochemical characterization, antioxidant activity and total phenolic content of value-added products from indigenous banana varieties of Assam, India. Measurement Food, 2022, , 100040.	0.8	2
9	Application of <i>Trichoderma viride</i> and <i>Pseudomonas fluorescens</i> to Cabbage ( <i>Brassica oleracea</i> L.) Improves Both Its Seedling Quality and Field Performance. Sustainability, 2022, 14, 7583.	1.6	6
10	Current Treatment Options for COVID-19 Associated Mucormycosis: Present Status and Future Perspectives. Journal of Clinical Medicine, 2022, 11, 3620.	1.0	12
11	Class Topper Optimization Based Improved Localization Algorithm in Wireless Sensor Network. Wireless Personal Communications, 2021, 119, 3319-3338.	1.8	12
12	Virtual 2-D map of the fungal proteome. Scientific Reports, 2021, 11, 6676.	1.6	8
13	Development of Graphene Oxide Nanosheets as Potential Biomaterials in Cancer Therapeutics: An <i>In-Vitro</i> Study Against Breast Cancer Cell Line. Journal of Inorganic and Organometallic Polymers and Materials, 2021, 31, 4236-4249.	1.9	15
14	Narrative Review: Bioactive Potential of Various Mushrooms as the Treasure of Versatile Therapeutic Natural Product. Journal of Fungi (Basel, Switzerland), 2021, 7, 728.	1.5	24
15	Virtual 2D mapping of the viral proteome reveals host-specific modality distribution of molecular weight and isoelectric point. Scientific Reports, 2021, 11, 21291.	1.6	1
16	Space Breeding: The Next-Generation Crops. Frontiers in Plant Science, 2021, 12, 771985.	1.7	14
17	The 3D Genome: From Structure to Function. International Journal of Molecular Sciences, 2021, 22, 11585.	1.8	12
18	Fungal genomes: suffering with functional annotation errors. IMA Fungus, 2021, 12, 32.	1.7	2

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19	Wet chemical development of CuO/GO nanocomposites: its augmented antimicrobial, antioxidant, and anticancerous activity. <i>Journal of Materials Science: Materials in Medicine</i> , 2021, 32, 151.	1.7	10
20	Analysis of genomic tRNA revealed presence of novel genomic features in cyanobacterial tRNA. <i>Saudi Journal of Biological Sciences</i> , 2020, 27, 124-133.	1.8	5
21	Complete genome sequence of the mountain-cultivated ginseng endophyte <i>Burkholderia stabilis</i> and its antimicrobial compounds against ginseng root rot disease. <i>Biological Control</i> , 2020, 140, 104126.	1.4	14
22	Genome-wide analysis revealed novel molecular features and evolution of Anti-codons in cyanobacterial tRNAs. <i>Saudi Journal of Biological Sciences</i> , 2020, 27, 1195-1200.	1.8	1
23	Global Trends in Phytohormone Research: Google Trends Analysis Revealed African Countries Have Higher Demand for Phytohormone Information. <i>Plants</i> , 2020, 9, 1248.	1.6	2
24	Construction of anti-codon table of the plant kingdom and evolution of tRNA selenocysteine (tRNA <sup>Sec</sup> ). <i>BMC Genomics</i> , 2020, 21, 804.	1.2	6
25	Performance Analysis of a Particle Swarm Optimization based Localization Algorithm in Wireless Sensor Network. , 2020, , .		1
26	Silicon and Gibberellins: Synergistic Function in Harnessing ABA Signaling and Heat Stress Tolerance in Date Palm ( <i>Phoenix dactylifera</i> L.). <i>Plants</i> , 2020, 9, 620.	1.6	54
27	Synthesis and Modeling Studies of Furoxan Coupled Spiro-Isoquinolino Piperidine Derivatives as NO Releasing PDE 5 Inhibitors. <i>Biomedicines</i> , 2020, 8, 121.	1.4	3
28	Anti-biofilm and Antibacterial Activities of Silver Nanoparticles Synthesized by the Reducing Activity of Phytoconstituents Present in the Indian Medicinal Plants. <i>Frontiers in Microbiology</i> , 2020, 11, 1143.	1.5	139
29	Bacterial synthesized metal and metal salt nanoparticles in biomedical applications: An up and coming approach. <i>Applied Organometallic Chemistry</i> , 2020, 34, e5810.	1.7	18
30	Fungi contain genes associated with flavonoid biosynthesis pathway. <i>Journal of Functional Foods</i> , 2020, 68, 103910.	1.6	21
31	Rhizosphere Microbiome of Arid Land Medicinal Plants and Extra Cellular Enzymes Contribute to Their Abundance. <i>Microorganisms</i> , 2020, 8, 213.	1.6	37
32	Nutritional assessment study and role of green silver nanoparticles in shelf-life of coconut endosperm to develop as functional food. <i>Saudi Journal of Biological Sciences</i> , 2020, 27, 1280-1288.	1.8	19
33	Genomics, molecular and evolutionary perspective of NAC transcription factors. <i>PLoS ONE</i> , 2020, 15, e0231425.	1.1	65
34	Molecular Insights into the MAPK Cascade during Viral Infection: Potential Crosstalk between HCQ and HCQ Analogues. <i>BioMed Research International</i> , 2020, 2020, 1-9.	0.9	18
35	Gene Loss and Evolution of the Plastome. <i>Genes</i> , 2020, 11, 1133.	1.0	48
36	Corona virus (CoVid19) genome: genomic and biochemical analysis revealed its possible synthetic origin. <i>Journal of Applied Biotechnology &amp; Bioengineering</i> , 2020, 7, 200-213.	0.0	2

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37	Analysis of mutations of defensin protein using accelerated molecular dynamics simulations. PLoS ONE, 2020, 15, e0241679.	1.1	3
38	Role of azithromycin in antiviral treatment: enhancement of interferon-dependent antiviral pathways and mitigation of inflammation may rely on inhibition of the MAPK cascade?. American Journal of Translational Research (discontinued), 2020, 12, 7702-7708.	0.0	4
39	The molecular mass and isoelectric point of plant proteomes. BMC Genomics, 2019, 20, 631.	1.2	62
40	Biochemical responses of maize seedlings exposed to SnNPs. Micro and Nano Letters, 2019, 14, 645-649.	0.6	5
41	Genomic and evolutionary aspects of chloroplast tRNA in monocot plants. BMC Plant Biology, 2019, 19, 39.	1.6	22
42	Molecular Players of EF-hand Containing Calcium Signaling Event in Plants. International Journal of Molecular Sciences, 2019, 20, 1476.	1.8	69
43	Biotransformation of benzoin by <i>Sphingomonas</i> sp. LK11 and ameliorative effects on growth of <i>Cucumis sativus</i> . Archives of Microbiology, 2019, 201, 591-601.	1.0	14
44	Recent Developments on Nanotechnology in Agriculture. , 2019, , 79-86.		1
45	An Overview of Mycogenic Nanoparticles. , 2019, , 87-97.		1
46	Bio-inspired synthesis of silver nanoparticles from leaf extracts of <i>Cleistanthus collinus</i> (Roxb.): its potential antibacterial and anticancer activities. IET Nanobiotechnology, 2018, 12, 343-348.	1.9	52
47	Molecular players of auxin transport systems: advances in genomic and molecular events. Journal of Plant Interactions, 2018, 13, 483-495.	1.0	23
48	Effect of Hybridization on Somatic Mutations and Genomic Rearrangements in Plants. International Journal of Molecular Sciences, 2018, 19, 3758.	1.8	17
49	Multi-Drug Resistant Coliform: Water Sanitary Standards and Health Hazards. Frontiers in Pharmacology, 2018, 9, 311.	1.6	31
50	Silver Nanoparticles Synthesized Using Wild Mushroom Show Potential Antimicrobial Activities against Food Borne Pathogens. Molecules, 2018, 23, 655.	1.7	102
51	Early Events in Plant Abiotic Stress Signaling: Interplay Between Calcium, Reactive Oxygen Species and Phytohormones. Journal of Plant Growth Regulation, 2018, 37, 1033-1049.	2.8	78
52	<i>Abutilon indicum</i> (L.) Sweet Leaf Extracts Assisted Bio-Inspired Synthesis of Electronically Charged Silver Nano-Particles with Potential Antimicrobial, Antioxidant and Cytotoxic Properties. Materials Focus, 2018, 7, 94-100.	0.4	11
53	Expression of four phosphate transporter genes from Finger millet ( <i>Eleusine coracana</i> L.) in response to mycorrhizal colonization and Pi stress. 3 Biotech, 2017, 7, 17.	1.1	34
54	Cloning and characterization of auxin efflux carrier genes EcPIN1a and EcPIN1b from finger millet <i>Eleusine coracana</i> L.. 3 Biotech, 2017, 7, 51.	1.1	3

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55	Genome-wide identification of major protein families of cyanobacteria and genomic insight into the circadian rhythm. <i>European Journal of Phycology</i> , 2017, 52, 149-165.	0.9	14
56	Systems biology approach in plant abiotic stresses. <i>Plant Physiology and Biochemistry</i> , 2017, 121, 58-73.	2.8	48
57	Genomics and evolutionary aspect of calcium signaling event in calmodulin and calmodulin-like proteins in plants. <i>BMC Plant Biology</i> , 2017, 17, 38.	1.6	72
58	Phyto-assisted synthesis of bio-functionalised silver nanoparticles and their potential anti-oxidant, anti-microbial and wound healing activities. <i>IET Nanobiotechnology</i> , 2017, 11, 1027-1034.	1.9	20
59	Genome Editing Tools in Plants. <i>Genes</i> , 2017, 8, 399.	1.0	63
60	Analyses of Genomic tRNA Reveal Presence of Novel tRNAs in <i>Oryza sativa</i> . <i>Frontiers in Genetics</i> , 2017, 8, 90.	1.1	16
61	Novel Genomic and Evolutionary Perspective of Cyanobacterial tRNAs. <i>Frontiers in Genetics</i> , 2017, 8, 200.	1.1	18
62	Biosynthesis of Silver Nanoparticles from <i>Protium serratum</i> and Investigation of their Potential Impacts on Food Safety and Control. <i>Frontiers in Microbiology</i> , 2017, 8, 626.	1.5	90
63	Antimicrobial, Antioxidant and Cytotoxic Activity of Silver Nanoparticles Synthesized by Leaf Extract of <i>Erythrina suberosa</i> (Roxb.). <i>Frontiers in Molecular Biosciences</i> , 2017, 4, 14.	1.6	202
64	Novel Insights into the Molecular Interaction of a Panduratin A Derivative with the Non Structural Protein (NS3) of Dengue Serotypes: A Molecular Dynamics Study. <i>Current Pharmaceutical Biotechnology</i> , 2017, 18, 769-782.	0.9	3
65	Large Scale Screening of Ethnomedicinal Plants for Identification of Potential Antibacterial Compounds. <i>Molecules</i> , 2016, 21, 293.	1.7	79
66	Design, synthesis and anti-diabetic activity of some novel xanthone derivatives targeting $\alpha$ -glucosidase. <i>Bangladesh Journal of Pharmacology</i> , 2016, 11, 308.	0.1	13
67	Genome-Wide Identification of Mitogen-Activated Protein Kinase Gene Family across Fungal Lineage Shows Presence of Novel and Diverse Activation Loop Motifs. <i>PLoS ONE</i> , 2016, 11, e0149861.	1.1	12
68	Green synthesis and antimicrobial activity of silver nanoparticles using wild medicinal mushroom <i>Ganoderma applanatum</i> (Pers.) Pat. from Similipal Biosphere Reserve, Odisha, India. <i>IET Nanobiotechnology</i> , 2016, 10, 184-189.	1.9	54
69	Novel Genomic and Evolutionary Insight of WRKY Transcription Factors in Plant Lineage. <i>Scientific Reports</i> , 2016, 6, 37309.	1.6	55
70	<i>Trichoderma</i> metabolites as biological control agents against <i>Phytophthora</i> pathogens. <i>Biological Control</i> , 2016, 92, 128-138.	1.4	89
71	Aflatoxins: A Global Concern for Food Safety, Human Health and Their Management. <i>Frontiers in Microbiology</i> , 2016, 07, 2170.	1.5	474
72	Mitogen Activated Protein Kinase (MPK) Interacts With Auxin Influx Carrier (OsAux/LAX1) Involved in Auxin Signaling in Plant. <i>Biological Procedures Online</i> , 2015, 17, 13.	1.4	7

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73	Identification and Expression Analysis of PIN-Like (PILS) Gene Family of Rice Treated with Auxin and Cytokinin. <i>Genes</i> , 2015, 6, 622-640.	1.0	19
74	Current Understanding of the Interplay between Phytohormones and Photosynthesis under Environmental Stress. <i>International Journal of Molecular Sciences</i> , 2015, 16, 19055-19085.	1.8	122
75	Genome-Wide Identification of Calcium Dependent Protein Kinase Gene Family in Plant Lineage Shows Presence of Novel D-x-D and D-E-L Motifs in EF-Hand Domain. <i>Frontiers in Plant Science</i> , 2015, 6, 1146.	1.7	31
76	Genome-wide identification of Calcineurin B-Like (CBL) gene family of plants reveals novel conserved motifs and evolutionary aspects in calcium signaling events. <i>BMC Plant Biology</i> , 2015, 15, 189.	1.6	69
77	Functional genomics and signaling events in mycorrhizal symbiosis. <i>Journal of Plant Interactions</i> , 2015, 10, 21-40.	1.0	39
78	The diversity of fungal genome. <i>Biological Procedures Online</i> , 2015, 17, 8.	1.4	173
79	Identification of new members of the MAPK gene family in plants shows diverse conserved domains and novel activation loop variants. <i>BMC Genomics</i> , 2015, 16, 58.	1.2	108
80	Developmental- and stress-mediated expression analysis of cinnamoyl-CoA reductase 1 (CCR1) from <i>Hibiscus cannabinus</i> . <i>Journal of Plant Interactions</i> , 2015, 10, 158-166.	1.0	6
81	Unraveling the Intricate Nexus of Molecular Mechanisms Governing Rice Root Development: OsMPK3/6 and Auxin-Cytokinin Interplay. <i>PLoS ONE</i> , 2015, 10, e0123620.	1.1	33
82	Role of Biotechnology in Bioremediation. <i>Advances in Environmental Engineering and Green Technologies Book Series</i> , 2015, , 399-432.	0.3	4
83	Metabolic pathway for degradation of 2-chloro-4-aminophenol by <i>Arthrobactersp. SPG</i> . <i>Microbial Cell Factories</i> , 2014, 13, 164.	1.9	12
84	Phytochemical and medicinal importance of <i>Ginkgo biloba</i> L.. <i>Natural Product Research</i> , 2014, 28, 746-752.	1.0	114
85	Differential expression of CPKs and cytosolic Ca <sup>2+</sup> variation in resistant and susceptible apple cultivars ( <i>Malus x domestica</i> ) in response to the pathogen <i>Erwinia amylovora</i> and mechanical wounding. <i>BMC Genomics</i> , 2013, 14, 760.	1.2	38
86	<i>Ginkgo biloba</i> Responds to Herbivory by Activating Early Signaling and Direct Defenses. <i>PLoS ONE</i> , 2012, 7, e32822.	1.1	72
87	Exploiting EST databases for the development and characterization of gene-derived SSR-markers in barley ( <i>Hordeum vulgare</i> L.). <i>Theoretical and Applied Genetics</i> , 2003, 106, 411-422.	1.8	2,073
88	Advanced localization algorithm for wireless sensor networks using fractional order class topper optimization. <i>Journal of Supercomputing</i> , 0, , 1.	2.4	4
89	Exploration of Lamiaceae in Cardio Vascular Diseases and Functional Foods: Medicine as Food and Food as Medicine. <i>Frontiers in Pharmacology</i> , 0, 13, .	1.6	7