

Nar Singh Chauhan

List of Publications by Year in descending order

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Version: 2024-02-01

80
papers

3,624
citations

126907

33
h-index

144013

57
g-index

80
all docs

80
docs citations

80
times ranked

3738
citing authors

#	ARTICLE	IF	CITATIONS
1	CopA: An Escherichia coli Cu(I)-translocating P-type ATPase. Proceedings of the National Academy of Sciences of the United States of America, 2000, 97, 652-656.	7.1	467
2	Genome-wide prediction of G4 DNA as regulatory motifs: Role in Escherichia coli global regulation. Genome Research, 2006, 16, 644-655.	5.5	287
3	A review of metabolic potential of human gut microbiome in human nutrition. Archives of Microbiology, 2018, 200, 203-217.	2.2	206
4	The ATP Hydrolytic Activity of Purified ZntA, a Pb(II)/Cd(II)/Zn(II)-translocating ATPase from Escherichia coli. Journal of Biological Chemistry, 2000, 275, 3873-3878.	3.4	185
5	Hydrogen and polyhydroxybutyrate producing abilities of microbes from diverse habitats by dark fermentative process. Bioresource Technology, 2008, 99, 5444-5451.	9.6	129
6	The Cysteine-Rich Amino-Terminal Domain of ZntA, a Pb(II)/Zn(II)/Cd(II)-Translocating ATPase from Escherichia coli, Is Not Essential for Its Function. Biochemistry, 2001, 40, 7694-7699.	2.5	102
7	Nitrilase and Its Application as a "Green" Catalyst. Chemistry and Biodiversity, 2006, 3, 1279-1287.	2.1	93
8	Isolation of novel lipolytic genes from uncultured bacteria of pond water. Biochemical and Biophysical Research Communications, 2005, 335, 57-65.	2.1	86
9	Identification of genes conferring arsenic resistance to Escherichia coli from an effluent treatment plant sludge metagenomic library. FEMS Microbiology Ecology, 2009, 67, 130-139.	2.7	84
10	Assessment of microbial diversity in effluent treatment plants by culture dependent and culture independent approaches. Bioresource Technology, 2008, 99, 7098-7107.	9.6	74
11	Hypoxia Inducible Factor-1: The Curator of Gut Homeostasis. Frontiers in Cellular and Infection Microbiology, 2020, 10, 227.	3.9	66
12	Physiopathology and Management of Gluten-Induced Celiac Disease. Journal of Food Science, 2017, 82, 270-277.	3.1	65
13	TiO ₂ and its composites as promising biomaterials: a review. BioMetals, 2018, 31, 147-159.	4.1	65
14	Identification and characterization of genes conferring salt tolerance to Escherichia coli from pond water metagenome. Bioresource Technology, 2010, 101, 3917-3924.	9.6	58
15	Chemical activation of egg shell membrane for covalent immobilization of enzymes and its evaluation as inert support in urinary oxalate determination. Talanta, 2009, 77, 1688-1693.	5.5	52
16	Identification of two flavin monooxygenases from an effluent treatment plant sludge metagenomic library. Bioresource Technology, 2010, 101, 8481-8484.	9.6	50
17	Solution combustion synthesized TiO ₂ /Bi ₂ O ₃ /CuO nano-composites and their photocatalytic activity using visible LEDs assisted photoreactor. Inorganic Chemistry Communication, 2021, 125, 108418.	3.9	48
18	Mapping of the benzoate metabolism by human gut microbiome indicates food-derived metagenome evolution. Scientific Reports, 2021, 11, 5561.	3.3	46

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19	Synthesis, characterization of penicillin G capped silver nanoconjugates to combat β -lactamase resistance in infectious microorganism. <i>Journal of Biotechnology</i> , 2013, 163, 419-424.	3.8	45
20	Functional metagenomics identifies novel genes ABCTPP, TMSRP1 and TLSRP1 among human gut enterotypes. <i>Scientific Reports</i> , 2018, 8, 1397.	3.3	45
21	Insights into functional and evolutionary analysis of carbaryl metabolic pathway from <i>Pseudomonas</i> sp. strain C5pp. <i>Scientific Reports</i> , 2016, 6, 38430.	3.3	44
22	Comparative Genomics of Host-Associated Symbiont and Free-Living <i>Oceanobacillus</i> Species. <i>Genome Biology and Evolution</i> , 2017, 9, 1175-1182.	2.5	44
23	Low temperature synthesized ZnO/Al ₂ O ₃ nano-composites for photocatalytic and antibacterial applications. <i>Semiconductor Science and Technology</i> , 2020, 35, 055008.	2.0	44
24	An Improved Methodology to Overcome Key Issues in Human Fecal Metagenomic DNA Extraction. <i>Genomics, Proteomics and Bioinformatics</i> , 2016, 14, 371-378.	6.9	42
25	Bio-hydrogen production by co-digestion of domestic wastewater and biodiesel industry effluent. <i>PLoS ONE</i> , 2018, 13, e0199059.	2.5	42
26	Comparative analysis of the alveolar microbiome in COPD, ECOPD, Sarcoidosis, and ILD patients to identify respiratory illnesses specific microbial signatures. <i>Scientific Reports</i> , 2021, 11, 3963.	3.3	42
27	Highly efficient, visible active TiO ₂ /CdS/ZnS photocatalyst, study of activity in an ultra low energy consumption LED based photo reactor. <i>Journal of Materials Science: Materials in Electronics</i> , 2019, 30, 17933-17946.	2.2	41
28	Genome Sequence of <i>Rheinheimera</i> sp. Strain A13L, Isolated from Pangong Lake, India. <i>Journal of Bacteriology</i> , 2011, 193, 5873-5874.	2.2	40
29	Catabolic Machinery of the Human Gut Microbes Bestow Resilience Against Vanillin Antimicrobial Nature. <i>Frontiers in Microbiology</i> , 2020, 11, 588545.	3.5	40
30	Synthesis and Biological Evaluation of Quinoline-Based Novel Aurones. <i>ChemistrySelect</i> , 2020, 5, 3539-3543.	1.5	40
31	Activation of polyvinyl chloride sheet surface for covalent immobilization of oxalate oxidase and its evaluation as inert support in urinary oxalate determination. <i>Analytical Biochemistry</i> , 2008, 374, 272-277.	2.4	39
32	Identification of Arsenic Resistance Genes from Marine Sediment Metagenome. <i>Indian Journal of Microbiology</i> , 2017, 57, 299-306.	2.7	39
33	Overview of the rules of the microbial engagement in the gut microbiome: a step towards microbiome therapeutics. <i>Journal of Applied Microbiology</i> , 2021, 130, 1425-1441.	3.1	38
34	Cloning and characterization of an epoxide hydrolase from <i>Cupriavidus metallidurans</i> -CH34. <i>Protein Expression and Purification</i> , 2011, 79, 49-59.	1.3	35
35	Microbiome therapeutics: exploring the present scenario and challenges. <i>Gastroenterology Report</i> , 2022, 10, goab046.	1.3	35
36	Utilization of glutathione as an exogenous sulfur source is independent of γ -glutamyl transpeptidase in the yeast <i>Saccharomyces cerevisiae</i> : evidence for an alternative glutathione degradation pathway. <i>FEMS Microbiology Letters</i> , 2003, 219, 187-194.	1.8	33

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37	Genome Analysis of <i>Staphylococcus capitis</i> TE8 Reveals Repertoire of Antimicrobial Peptides and Adaptation Strategies for Growth on Human Skin. <i>Scientific Reports</i> , 2017, 7, 10447.	3.3	31
38	S9A Serine Protease Engender Antigenic Gluten Catabolic Competence to the Human Gut Microbe. <i>Indian Journal of Microbiology</i> , 2018, 58, 294-300.	2.7	31
39	Nanogold/Polyaniline/Penicillin G Nanoconjugates: A Novel Nanomedicine. <i>International Journal of Polymeric Materials and Polymeric Biomaterials</i> , 2014, 63, 86-91.	3.4	30
40	Curcumin Encapsulated PEGylated Nanoliposomes: A Potential Anti-Infective Therapeutic Agent. <i>Indian Journal of Microbiology</i> , 2019, 59, 336-343.	2.7	30
41	Molecular Structure of d-Hydantoinase from <i>Bacillus</i> sp. AR9: Evidence for Mercury Inhibition. <i>Journal of Molecular Biology</i> , 2005, 347, 95-105.	4.2	29
42	Functionalised iron nanoparticle- β -penicillin G conjugates: a novel strategy to combat the rapid emergence of β -lactamase resistance among infectious micro-organism. <i>Journal of Experimental Nanoscience</i> , 2015, 10, 718-728.	2.4	29
43	Photocatalytic TiO ₂ /CdS/ZnS nanocomposite induces <i>Bacillus subtilis</i> cell death by disrupting its metabolism and membrane integrity. <i>Indian Journal of Microbiology</i> , 2021, 61, 487-496.	2.7	29
44	Chaperone-Assisted Overexpression of an Active d-Carbamoylase from <i>Agrobacterium tumefaciens</i> AM 10. <i>Protein Expression and Purification</i> , 2001, 23, 374-379.	1.3	26
45	A Novel Calcium Uptake Transporter of Uncharacterized P-Type ATPase Family Supplies Calcium for Cell Surface Integrity in <i>Mycobacterium smegmatis</i> . <i>MBio</i> , 2017, 8, .	4.1	26
46	Unique subunit packing in mycobacterial nanoRNase leads to alternate substrate recognitions in DHH phosphodiesterases. <i>Nucleic Acids Research</i> , 2014, 42, 7894-7910.	14.5	25
47	Co-utilization of Crude Glycerol and Biowastes for Producing Polyhydroxyalkanoates. <i>Indian Journal of Microbiology</i> , 2018, 58, 33-38.	2.7	25
48	Unsaturated Lipid Assimilation by Mycobacteria Requires Auxiliary cis-trans Enoyl CoA Isomerase. <i>Chemistry and Biology</i> , 2015, 22, 1577-1587.	6.0	24
49	Surfactant-assisted hydrothermally synthesized novel TiO ₂ /SnS@Pd nano-composite: structural, morphological and photocatalytic activity. <i>Journal of Materials Science: Materials in Electronics</i> , 2020, 31, 2010-2021.	2.2	24
50	Culture-Independent Exploration of the Hypersaline Ecosystem Indicates the Environment-Specific Microbiome Evolution. <i>Frontiers in Microbiology</i> , 2021, 12, 686549.	3.5	23
51	Discovery of a diverse set of esterases from hot spring microbial mat and sea sediment metagenomes. <i>International Journal of Biological Macromolecules</i> , 2018, 119, 572-581.	7.5	22
52	Silver Nanoparticles Encapsulated Polyacrylamide Nanospheres: An Efficient DNA Binding Nanomatrix. <i>International Journal of Polymeric Materials and Polymeric Biomaterials</i> , 2014, 63, 476-485.	3.4	21
53	A Thermostable D-Hydantoinase Isolated from a Mesophilic <i>Bacillus</i> sp. AR9. <i>Biochemical and Biophysical Research Communications</i> , 1997, 234, 485-488.	2.1	20
54	Nano-Biocatalysts: Potential Biotechnological Applications. <i>Indian Journal of Microbiology</i> , 2021, 61, 441-448.	2.7	20

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55	Targeting the Redox Regulatory Mechanisms for Abiotic Stress Tolerance in Crops. , 2018, , 151-220.		19
56	Description of <i>Auricoccus indicus</i> gen. nov., sp. nov., isolated from skin of human ear. <i>International Journal of Systematic and Evolutionary Microbiology</i> , 2017, 67, 1212-1218.	1.7	19
57	Myg1 exonuclease couples the nuclear and mitochondrial translational programs through RNA processing. <i>Nucleic Acids Research</i> , 2019, 47, 5852-5866.	14.5	18
58	Role of DHH superfamily proteins in nucleic acids metabolism and stress tolerance in prokaryotes and eukaryotes. <i>International Journal of Biological Macromolecules</i> , 2019, 127, 66-75.	7.5	18
59	Sequence analysis of a salt tolerant metagenomic clone. <i>Indian Journal of Microbiology</i> , 2010, 50, 212-215.	2.7	17
60	Wastewater: A Potential Bioenergy Resource. <i>Indian Journal of Microbiology</i> , 2018, 58, 127-137.	2.7	17
61	Investigations into the polymorphisms at the ECM38 locus of two widely used <i>Saccharomyces cerevisiae</i> S288C strains, YPH499 and BY4742. <i>Yeast</i> , 2003, 20, 857-863.	1.7	16
62	Identification and Characterization of a Major Zn(II) Resistance Determinant of <i>Mycobacterium smegmatis</i> . <i>Journal of Bacteriology</i> , 2006, 188, 7026-7032.	2.2	15
63	Genome Sequence of <i>Idiomarina</i> sp. Strain A28L, Isolated from Pangong Lake, India. <i>Journal of Bacteriology</i> , 2011, 193, 5875-5876.	2.2	14
64	Genome Sequence of the Alkaliphilic Bacterium <i>Nitritalea halalkaliphila</i> Type Strain LW7, Isolated from Lonar Lake, India. <i>Journal of Bacteriology</i> , 2012, 194, 5688-5689.	2.2	14
65	Genome sequence of a clinical isolate of dermatophyte, <i>Trichophyton rubrum</i> from India. <i>FEMS Microbiology Letters</i> , 2015, 362, fnv039.	1.8	13
66	Bioproduction and characterization of extracellular melanin-like pigment from industrially polluted metagenomic library equipped <i>Escherichia coli</i> . <i>Science of the Total Environment</i> , 2018, 635, 323-332.	8.0	13
67	Two-Step Purification of d(âˆ²)-Specific Carbamoylase from <i>Agrobacterium tumefaciens</i> AM 10. <i>Protein Expression and Purification</i> , 2001, 21, 170-175.	1.3	10
68	Cloning, characterization and expression of the chitinase gene of <i>Enterobacter</i> sp. NRG4. <i>Indian Journal of Microbiology</i> , 2008, 48, 358-364.	2.7	8
69	Carbaryl as a Carbon and Nitrogen Source: an Inducible Methylamine Metabolic Pathway at the Biochemical and Molecular Levels in <i>Pseudomonas</i> sp. Strain C5pp. <i>Applied and Environmental Microbiology</i> , 2018, 84, .	3.1	8
70	Enhanced production of penicillin G acylase from a recombinant <i>Escherichia coli</i> . <i>Biotechnology Letters</i> , 2001, 23, 531-535.	2.2	7
71	Genome Sequence of Nitratireductor <i>aquibiodomus</i> Strain RA22. <i>Journal of Bacteriology</i> , 2012, 194, 6307-6307.	2.2	7
72	Crop Improvement Through Microbial Biotechnology: A Cross Talk. , 2019, , 69-90.		7

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73	Transformation of (±)-lavandulol and (±)-tetrahydrolavandulol by a fungal strain <i>Rhizopus oryzae</i> . <i>Bioresource Technology</i> , 2012, 115, 70-74.	9.6	6
74	Metagenome analysis and interpretation. , 2019, , 139-160.		5
75	Inimical Effects of Arsenic on the Plant Physiology and Possible Biotechnological Solutions to Mitigate Arsenic-Induced Toxicity. , 2020, , 399-422.		5
76	Genome Sequence of a Novel Actinophage PIS136 Isolated from a Strain of <i>Saccharomonospora</i> sp. <i>Journal of Virology</i> , 2012, 86, 9552-9552.	3.4	4
77	Draft Genome Sequence of Carbaryl-Degrading Soil Isolate <i>Pseudomonas</i> sp. Strain C5pp. <i>Genome Announcements</i> , 2016, 4, .	0.8	4
78	Crystallization and preliminary X-ray diffraction analysis of a thermostable D-hydantoinase from the mesophilic <i>Bacillus</i> sp. AR9. <i>Acta Crystallographica Section D: Biological Crystallography</i> , 2002, 58, 2175-2176.	2.5	2
79	Metagenomics: A Systemic Approach to Explore Microbial World. , 2015, , 281-298.		1
80	Loss of U1498 methylation in 16S rRNA by RsmE methyltransferase associates its role with aminoglycoside resistance in mycobacteria. <i>Journal of Global Antimicrobial Resistance</i> , 2020, 23, 359-369.	2.2	1