

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	Microbiome therapeutics: exploring the present scenario and challenges. <i>Gastroenterology Report</i> , 2022, 10, goab046.	1.3	35
2	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
3	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
4	Solution combustion synthesized TiO ₂ /Bi ₂ O ₃ /CuO nano-composites and their photocatalytic activity using visible LEDs assisted photoreactor. <i>Inorganic Chemistry Communication</i> , 2021, 125, 108418.	3.9	48
5	Mapping of the benzoate metabolism by human gut microbiome indicates food-derived metagenome evolution. <i>Scientific Reports</i> , 2021, 11, 5561.	3.3	46
6	Nano-Biocatalysts: Potential Biotechnological Applications. <i>Indian Journal of Microbiology</i> , 2021, 61, 441-448.	2.7	20
7	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
8	Culture-Independent Exploration of the Hypersaline Ecosystem Indicates the Environment-Specific Microbiome Evolution. <i>Frontiers in Microbiology</i> , 2021, 12, 686549.	3.5	23
9	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
10	Catabolic Machinery of the Human Gut Microbes Bestow Resilience Against Vanillin Antimicrobial Nature. <i>Frontiers in Microbiology</i> , 2020, 11, 588545.	3.5	40
11	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
12	Hypoxia Inducible Factor-1 α : The Curator of Gut Homeostasis. <i>Frontiers in Cellular and Infection Microbiology</i> , 2020, 10, 227.	3.9	66
13	Synthesis and Biological Evaluation of Quinoline-Based Novel Aurones. <i>ChemistrySelect</i> , 2020, 5, 3539-3543.	1.5	40
14	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
15	Inimical Effects of Arsenic on the Plant Physiology and Possible Biotechnological Solutions to Mitigate Arsenic-Induced Toxicity. , 2020, , 399-422.		5
16	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
17	Curcumin Encapsulated PEGylated Nanoliposomes: A Potential Anti-Infective Therapeutic Agent. <i>Indian Journal of Microbiology</i> , 2019, 59, 336-343.	2.7	30
18	Myg1 exonuclease couples the nuclear and mitochondrial translational programs through RNA processing. <i>Nucleic Acids Research</i> , 2019, 47, 5852-5866.	14.5	18

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19	Metagenome analysis and interpretation. , 2019, , 139-160.		5
20	Role of DHH superfamily proteins in nucleic acids metabolism and stress tolerance in prokaryotes and eukaryotes. International Journal of Biological Macromolecules, 2019, 127, 66-75.	7.5	18
21	Crop Improvement Through Microbial Biotechnology: A Cross Talk. , 2019, , 69-90.		7
22	Functional metagenomics identifies novel genes ABCTPP, TMSRP1 and TLSRP1 among human gut enterotypes. Scientific Reports, 2018, 8, 1397.	3.3	45
23	TiO ₂ and its composites as promising biomaterials: a review. BioMetals, 2018, 31, 147-159.	4.1	65
24	Co-utilization of Crude Glycerol and Biowastes for Producing Polyhydroxyalkanoates. Indian Journal of Microbiology, 2018, 58, 33-38.	2.7	25
25	Wastewater: A Potential Bioenergy Resource. Indian Journal of Microbiology, 2018, 58, 127-137.	2.7	17
26	Bioproduction and characterization of extracellular melanin-like pigment from industrially polluted metagenomic library equipped <i>Escherichia coli</i> . Science of the Total Environment, 2018, 635, 323-332.	8.0	13
27	A review of metabolic potential of human gut microbiome in human nutrition. Archives of Microbiology, 2018, 200, 203-217.	2.2	206
28	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. Applied and Environmental Microbiology, 2018, 84, .	3.1	8
29	Discovery of a diverse set of esterases from hot spring microbial mat and sea sediment metagenomes. International Journal of Biological Macromolecules, 2018, 119, 572-581.	7.5	22
30	Bio-hydrogen production by co-digestion of domestic wastewater and biodiesel industry effluent. PLoS ONE, 2018, 13, e0199059.	2.5	42
31	S9A Serine Protease Engender Antigenic Gluten Catabolic Competence to the Human Gut Microbe. Indian Journal of Microbiology, 2018, 58, 294-300.	2.7	31
32	Targeting the Redox Regulatory Mechanisms for Abiotic Stress Tolerance in Crops. , 2018, , 151-220.		19
33	Physiopathology and Management of Gluten-Induced Celiac Disease. Journal of Food Science, 2017, 82, 270-277.	3.1	65
34	Comparative Genomics of Host-Symbiont and Free-Living <i>Oceanobacillus</i> Species. Genome Biology and Evolution, 2017, 9, 1175-1182.	2.5	44
35	A Novel Calcium Uptake Transporter of Uncharacterized P-Type ATPase Family Supplies Calcium for Cell Surface Integrity in <i>Mycobacterium smegmatis</i> . MBio, 2017, 8, .	4.1	26
36	Genome Analysis of <i>Staphylococcus capitis</i> TE8 Reveals Repertoire of Antimicrobial Peptides and Adaptation Strategies for Growth on Human Skin. Scientific Reports, 2017, 7, 10447.	3.3	31

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37	Identification of Arsenic Resistance Genes from Marine Sediment Metagenome. Indian Journal of Microbiology, 2017, 57, 299-306.	2.7	39
38	Description of <i>Auricoccus indicus</i> gen. nov., sp. nov., isolated from skin of human ear. International Journal of Systematic and Evolutionary Microbiology, 2017, 67, 1212-1218.	1.7	19
39	Draft Genome Sequence of Carbaryl-Degrading Soil Isolate <i>Pseudomonas</i> sp. Strain C5pp. Genome Announcements, 2016, 4, .	0.8	4
40	An Improved Methodology to Overcome Key Issues in Human Fecal Metagenomic DNA Extraction. Genomics, Proteomics and Bioinformatics, 2016, 14, 371-378.	6.9	42
41	Insights into functional and evolutionary analysis of carbaryl metabolic pathway from <i>Pseudomonas</i> sp. strain C5pp. Scientific Reports, 2016, 6, 38430.	3.3	44
42	Unsaturated Lipid Assimilation by Mycobacteria Requires Auxiliary cis-trans Enoyl CoA Isomerase. Chemistry and Biology, 2015, 22, 1577-1587.	6.0	24
43	Metagenomics: A Systemic Approach to Explore Microbial World. , 2015, , 281-298.		1
44	Functionalised iron nanoparticle- β -penicillin G conjugates: a novel strategy to combat the rapid emergence of β -lactamase resistance among infectious micro-organism. Journal of Experimental Nanoscience, 2015, 10, 718-728.	2.4	29
45	Genome sequence of a clinical isolate of dermatophyte, <i>Trichophyton rubrum</i> from India. FEMS Microbiology Letters, 2015, 362, fmv039.	1.8	13
46	Unique subunit packing in mycobacterial nanoRNase leads to alternate substrate recognitions in DHH phosphodiesterases. Nucleic Acids Research, 2014, 42, 7894-7910.	14.5	25
47	Silver Nanoparticles Encapsulated Polyacrylamide Nanospheres: An Efficient DNA Binding Nanomatrix. International Journal of Polymeric Materials and Polymeric Biomaterials, 2014, 63, 476-485.	3.4	21
48	Nanogold/Polyaniline/Penicillin G Nanoconjugates: A Novel Nanomedicine. International Journal of Polymeric Materials and Polymeric Biomaterials, 2014, 63, 86-91.	3.4	30
49	Synthesis, characterization of penicillin G capped silver nanoconjugates to combat β -lactamase resistance in infectious microorganism. Journal of Biotechnology, 2013, 163, 419-424.	3.8	45
50	Genome Sequence of the Alkaliphilic Bacterium <i>Nitritalea halalkaliphila</i> Type Strain LW7, Isolated from Lonar Lake, India. Journal of Bacteriology, 2012, 194, 5688-5689.	2.2	14
51	Genome Sequence of a Novel Actinophage PIS136 Isolated from a Strain of <i>Saccharomonospora</i> sp. Journal of Virology, 2012, 86, 9552-9552.	3.4	4
52	Genome Sequence of Nitrate reductor <i>aquibiodomus</i> Strain RA22. Journal of Bacteriology, 2012, 194, 6307-6307.	2.2	7
53	Transformation of (\pm)-lavandulol and (\pm)-tetrahydrolavandulol by a fungal strain <i>Rhizopus oryzae</i> . Bioresource Technology, 2012, 115, 70-74.	9.6	6
54	Cloning and characterization of an epoxide hydrolase from <i>Cupriavidus metallidurans</i> -CH34. Protein Expression and Purification, 2011, 79, 49-59.	1.3	35

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55	Genome Sequence of Rheinheimera sp. Strain A13L, Isolated from Pangong Lake, India. Journal of Bacteriology, 2011, 193, 5873-5874.	2.2	40
56	Genome Sequence of Idiomarina sp. Strain A28L, Isolated from Pangong Lake, India. Journal of Bacteriology, 2011, 193, 5875-5876.	2.2	14
57	Sequence analysis of a salt tolerant metagenomic clone. Indian Journal of Microbiology, 2010, 50, 212-215.	2.7	17
58	Identification of two flavin monooxygenases from an effluent treatment plant sludge metagenomic library. Bioresource Technology, 2010, 101, 8481-8484.	9.6	50
59	Identification and characterization of genes conferring salt tolerance to Escherichia coli from pond water metagenome. Bioresource Technology, 2010, 101, 3917-3924.	9.6	58
60	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
61	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
62	Cloning, characterization and expression of the chitinase gene of Enterobacter sp. NRG4. Indian Journal of Microbiology, 2008, 48, 358-364.	2.7	8
63	Activation of polyvinyl chloride sheet surface for covalent immobilization of oxalate oxidase and its evaluation as inert support in urinary oxalate determination. Analytical Biochemistry, 2008, 374, 272-277.	2.4	39
64	Hydrogen and polyhydroxybutyrate producing abilities of microbes from diverse habitats by dark fermentative process. Bioresource Technology, 2008, 99, 5444-5451.	9.6	129
65	Assessment of microbial diversity in effluent treatment plants by culture dependent and culture independent approaches. Bioresource Technology, 2008, 99, 7098-7107.	9.6	74
66	Genome-wide prediction of G4 DNA as regulatory motifs: Role in Escherichia coli global regulation. Genome Research, 2006, 16, 644-655.	5.5	287
67	Nitrilase and Its Application as a "Green" Catalyst. Chemistry and Biodiversity, 2006, 3, 1279-1287.	2.1	93
68	Identification and Characterization of a Major Zn(II) Resistance Determinant of Mycobacterium smegmatis. Journal of Bacteriology, 2006, 188, 7026-7032.	2.2	15
69	Molecular Structure of d-Hydantoinase from Bacillus sp. AR9: Evidence for Mercury Inhibition. Journal of Molecular Biology, 2005, 347, 95-105.	4.2	29
70	Isolation of novel lipolytic genes from uncultured bacteria of pond water. Biochemical and Biophysical Research Communications, 2005, 335, 57-65.	2.1	86
71	Utilization of glutathione as an exogenous sulfur source is independent of γ -glutamyl transpeptidase in the yeast Saccharomyces cerevisiae: evidence for an alternative glutathione degradation pathway. FEMS Microbiology Letters, 2003, 219, 187-194.	1.8	33
72	Investigations into the polymorphisms at the ECM38 locus of two widely used Saccharomyces cerevisiae S288C strains, YPH499 and BY4742. Yeast, 2003, 20, 857-863.	1.7	16

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73	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
74	Two-Step Purification of d(Δ)-Specific Carbamoylase from <i>Agrobacterium tumefaciens</i> AM 10. <i>Protein Expression and Purification</i> , 2001, 21, 170-175.	1.3	10
75	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
76	The Cysteine-Rich Amino-Terminal Domain of ZntA, a Pb(II)/Zn(II)/Cd(II)-Translocating ATPase from <i>Escherichia coli</i> , Is Not Essential for Its Function. <i>Biochemistry</i> , 2001, 40, 7694-7699.	2.5	102
77	Enhanced production of penicillin G acylase from a recombinant <i>Escherichia coli</i> . <i>Biotechnology Letters</i> , 2001, 23, 531-535.	2.2	7
78	CopA: An <i>Escherichia coli</i> Cu(I)-translocating P-type ATPase. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2000, 97, 652-656.	7.1	467
79	The ATP Hydrolytic Activity of Purified ZntA, a Pb(II)/Cd(II)/Zn(II)-translocating ATPase from <i>Escherichia coli</i> . <i>Journal of Biological Chemistry</i> , 2000, 275, 3873-3878.	3.4	185
80	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