

Sukhendu Mandal

List of Publications by Year in descending order

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Version: 2024-02-01

100
papers

1,674
citations

279798

23
h-index

361022

35
g-index

107
all docs

107
docs citations

107
times ranked

2175
citing authors

#	ARTICLE	IF	CITATIONS
1	Structural Basis of Mycobacterium tuberculosis Transcription and Transcription Inhibition. <i>Molecular Cell</i> , 2017, 66, 169-179.e8.	9.7	130
2	Structural Basis of Transcription Inhibition by Fidaxomicin (Lipiarmycin A3). <i>Molecular Cell</i> , 2018, 70, 60-71.e15.	9.7	81
3	Transcription inhibition by the depsipeptide antibiotic salinamide A. <i>ELife</i> , 2014, 3, e02451.	6.0	71
4	A new selective chromogenic and turn-on fluorogenic probe for copper(^{II}) in solution and vero cells: recognition of sulphide by [CuL]. <i>Dalton Transactions</i> , 2015, 44, 6490-6501.	3.3	68
5	<i>Tetrathio bacter kashmirensis</i> gen. nov., sp. nov., a novel mesophilic, neutrophilic, tetrathionate-oxidizing, facultatively chemolithotrophic betaproteobacterium isolated from soil from a temperate orchard in Jammu and Kashmir, India. <i>International Journal of Systematic and Evolutionary Microbiology</i> , 2005, 55, 1779-1787.	1.7	58
6	The S4-intermediate pathway for the oxidation of thiosulfate by the chemolithoautotroph <i>Tetrathio bacter kashmirensis</i> and inhibition of tetrathionate oxidation by sulfite. <i>Research in Microbiology</i> , 2007, 158, 330-338.	2.1	54
7	Dual mode selective chemosensor for copper and fluoride ions: a fluorometric, colorimetric and theoretical investigation. <i>Dalton Transactions</i> , 2016, 45, 11042-11051.	3.3	52
8	A highly sensitive fluorescent probe for detection of hydrazine in gas and solution phases based on the Gabriel mechanism and its bioimaging. <i>RSC Advances</i> , 2016, 6, 70855-70862.	3.6	47
9	A BODIPY/pyrene-based chemodosimetric fluorescent chemosensor for selective sensing of hydrazine in the gas and aqueous solution state and its imaging in living cells. <i>RSC Advances</i> , 2015, 5, 58228-58236.	3.6	46
10	Bio-molecule functionalized rapid one-pot green synthesis of silver nanoparticles and their efficacy toward the multidrug resistant (MDR) gut bacteria of silkworms (<i>Bombyx mori</i>). <i>RSC Advances</i> , 2020, 10, 22742-22757.	3.6	45
11	NRF2 transcriptionally activates the heat shock factor 1 promoter under oxidative stress and affects survival and migration potential of MCF7 cells. <i>Journal of Biological Chemistry</i> , 2018, 293, 19303-19316.	3.4	44
12	Visualisation of DCP, a nerve agent mimic, in Catfish brain by a simple chemosensor. <i>Scientific Reports</i> , 2018, 8, 3402.	3.3	41
13	Non-synonymous mutations of SARS-CoV-2 leads epitope loss and segregates its variants. <i>Microbes and Infection</i> , 2020, 22, 598-607.	1.9	40
14	Structural basis of ECF- σ -factor-dependent transcription initiation. <i>Nature Communications</i> , 2019, 10, 710.	12.8	37
15	An azodye-rhodamine-based fluorescent and colorimetric probe specific for the detection of Pd ²⁺ in aqueous ethanolic solution: synthesis, XRD characterization, computational studies and imaging in live cells. <i>Analyst</i> , 2015, 140, 1229-1236.	3.5	36
16	A chromogenic and ratiometric fluorogenic probe for rapid detection of a nerve agent simulant DCP based on a hybrid hydroxynaphthalene-hemicyanine dye. <i>Organic and Biomolecular Chemistry</i> , 2017, 15, 5959-5967.	2.8	34
17	<i>Streptomyces</i> sp SM01 isolated from Indian soil produces a novel antibiotic picolinamycin effective against multi drug resistant bacterial strains. <i>Scientific Reports</i> , 2020, 10, 10092.	3.3	32
18	A natural food preservative peptide nisin can interact with the SARS-CoV-2 spike protein receptor human ACE2. <i>Virology</i> , 2021, 552, 107-111.	2.4	32

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19	A Novel Gene Cluster <i>soxSRT</i> Is Essential for the Chemolithotrophic Oxidation of Thiosulfate and Tetrathionate by <i>Pseudaminobacter salicylatoxidans</i> KCT001. <i>Current Microbiology</i> , 2006, 52, 267-273.	2.2	31
20	The dimeric repressor SoxR binds cooperatively to the promoter(s) regulating expression of the sulfur oxidation (<i>sox</i>) operon of <i>Pseudaminobacter salicylatoxidans</i> KCT001. <i>Microbiology (United Kingdom)</i> , 2006, 156, 1071-1076.	2.2	31
21	Pyrene appended thymine derivative for selective turn-on fluorescence sensing of uric acid in live cells. <i>RSC Advances</i> , 2016, 6, 66774-66778.	3.6	30
22	Aminomethylpyrene-based imino-phenols as primary fluorescence switch-on sensors for Al ³⁺ in solution and in Vero cells and their complexes as secondary recognition ensembles toward pyrophosphate. <i>RSC Advances</i> , 2015, 5, 81203-81211.	3.6	28
23	MtrA, an essential response regulator of the MtrAB two-component system, regulates the transcription of resuscitation-promoting factor B of <i>Mycobacterium tuberculosis</i> . <i>Microbiology (United Kingdom)</i> , 2015, 161, 1271-1281.	1.8	25
24	A highly selective "ON-OFF" probe for colorimetric and fluorometric sensing of Cu ²⁺ in water. <i>RSC Advances</i> , 2017, 7, 11312-11321.	3.6	23
25	Selective Recognition and Quantification of 2,3-Bisphosphoglycerate in Human Blood Samples by a Rhodamine Derivative. <i>Asian Journal of Organic Chemistry</i> , 2017, 6, 71-75.	2.7	23
26	In vitro antibacterial potential of <i>Hydrocotyle javanica</i> Thunb.. <i>Asian Pacific Journal of Tropical Disease</i> , 2016, 6, 54-62.	0.5	22
27	Segregation of nod-containing and nod-deficient bradyrhizobia as endosymbionts of <i>Arachis hypogaea</i> and as endophytes of <i>Oryza sativa</i> in intercropped fields of Bengal Basin, India. <i>Environmental Microbiology</i> , 2016, 18, 2575-2590.	3.8	19
28	Majority of Actinobacterial Strains Isolated from Kashmir Himalaya Soil Are Rich Source of Antimicrobials and Industrially Important Biomolecules. <i>Advances in Microbiology</i> , 2019, 09, 220-238.	0.6	19
29	Selective fluorescence sensing and quantification of uric acid by naphthyridine-based receptor in biological sample. <i>Bioorganic Chemistry</i> , 2017, 71, 315-324.	4.1	18
30	A benzothiazole-conjugated hemicyanine dye as a ratiometric NIR fluorescent probe for the detection and imaging of peroxyxynitrite in living cells. <i>Analytical Methods</i> , 2019, 11, 5447-5454.	2.7	18
31	A pyrene thiazole conjugate as a ratiometric chemosensor with high selectivity and sensitivity for tin (Sn ⁴⁺) and its application in imaging live cells. <i>RSC Advances</i> , 2014, 4, 56605-56614.	3.6	16
32	A benzopyrylium-phenothiazine conjugate of a flavylum derivative as a fluorescent chemosensor for cyanide in aqueous media and its bioimaging. <i>New Journal of Chemistry</i> , 2017, 41, 12581-12588.	2.8	15
33	Turn-on fluorescence sensing of cytosine: development of a chemosensor for quantification of cytosine in human cancer cells. <i>RSC Advances</i> , 2017, 7, 54008-54012.	3.6	15
34	Band Gap Tuning of Photo Fenton-like Fe ₃ O ₄ /C Catalyst through Oxygen Vacancies for Advanced Visible Light Photocatalysis. <i>Materials Advances</i> , 0, .	5.4	15
35	Reduction of hexavalent chromium by a moderately halophilic bacterium, <i>Halomonas smyrnensis</i> KS802 under saline environment. <i>Environmental Sustainability</i> , 2018, 1, 411-423.	2.8	14
36	Partial purification, characterization and mode of action of bacteriocins produced by three strains of <i>Pediococcus</i> sp.. <i>Journal of Food Science and Technology</i> , 2019, 56, 2594-2604.	2.8	14

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37	Endophytic Microbiota of Rice and Their Collective Impact on Host Fitness. <i>Current Microbiology</i> , 2022, 79, 37.	2.2	14
38	Highly Selective Ratiometric Fluorescent Probes for Detection of Perborate Based on Excited-State Intramolecular Proton Transfer (ESIPT) in Environmental Samples and Living Cells. <i>ChemistrySelect</i> , 2016, 1, 375-383.	1.5	13
39	A chemosensor to recognize N-acyl homoserine lactone in bacterial biofilm. <i>Sensors and Actuators B: Chemical</i> , 2018, 259, 332-338.	7.8	13
40	The N-Terminal Domain of the Repressor of <i>Staphylococcus aureus</i> Phage ϕ 11 Possesses an Unusual Dimerization Ability and DNA Binding Affinity. <i>PLoS ONE</i> , 2014, 9, e95012.	2.5	13
41	A ratiometric triazine-based colorimetric and fluorometric sensor for the recognition of Zn ²⁺ ions and its application in human lung cancer cells. <i>Analytical Methods</i> , 2021, 13, 3922-3929.	2.7	12
42	Highly sensitive ratiometric fluorescence probes for nitric oxide based on dihydropyridine and potentially useful in bioimaging. <i>RSC Advances</i> , 2016, 6, 113219-113227.	3.6	11
43	Chemical and Thermal Unfolding of a Global Staphylococcal Virulence Regulator with a Flexible C-Terminal End. <i>PLoS ONE</i> , 2015, 10, e0122168.	2.5	11
44	Phenanthroline-fluorescein molecular hybrid as a ratiometric and selective fluorescent chemosensor for Cu ²⁺ via FRET strategy: synthesis, computational studies and in vitro applications. <i>Supramolecular Chemistry</i> , 2017, 29, 616-626.	1.2	10
45	<i>Lentzea indica</i> sp. nov., a novel actinobacteria isolated from Indian Himalayan-soil. <i>Antonie Van Leeuwenhoek</i> , 2020, 113, 1411-1423.	1.7	10
46	Alanine substitution mutations in the DNA binding region of a global staphylococcal virulence regulator affect its structure, function, and stability. <i>International Journal of Biological Macromolecules</i> , 2018, 113, 1221-1232.	7.5	9
47	Plasmid-Based Gene Expression Systems for Lactic Acid Bacteria: A Review. <i>Microorganisms</i> , 2022, 10, 1132.	3.6	9
48	Production, Partial Purification and Some Bio-physicochemical Properties of EPS Produced by <i>Halomonas xianhensis</i> SUR308 Isolated from a Saltern Environment. <i>Journal of Biologically Active Products From Nature</i> , 2015, 5, 108-119.	0.3	8
49	Reaction-based sensing of fluoride ions using desilylation method for triggering excited-state intramolecular proton transfer. <i>Supramolecular Chemistry</i> , 2016, 28, 693-706.	1.2	8
50	Draft Genome Sequence of Cold-Tolerant <i>Kurthia gibsonii</i> B83, Isolated from Spinach Leaf. <i>Microbiology Resource Announcements</i> , 2019, 8, .	0.6	8
51	Tryptophan interferes with the quorum sensing and cell surface hydrophobicity of <i>Staphylococcus aureus</i> : a promising approach to inhibit the biofilm development. <i>3 Biotech</i> , 2021, 11, 376.	2.2	8
52	A benzothiazole-based dual reaction site fluorescent probe for the selective detection of hydrazine in water and live cells. <i>Organic and Biomolecular Chemistry</i> , 2022, 20, 4949-4963.	2.8	8
53	Installation of efficient quenching groups of a fluorescent probe for the specific detection of cysteine and homocysteine over glutathione in solution and imaging of living cells. <i>Supramolecular Chemistry</i> , 2017, 29, 59-68.	1.2	7
54	A one-pot fluorogenic cascade cyclization reaction via BF ₃ -sensing. <i>Analyst</i> , The, 2021, 146, 2998-3003.	3.5	7

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55	Identification and characterization of a cyclosporin binding cyclophilin from <i>Staphylococcus aureus</i> Newman. <i>Bioinformatics</i> , 2017, 13, 78-85.	0.5	7
56	Production and characterization of a broad-spectrum antimicrobial 5-butyl-2-pyridine carboxylic acid from <i>Aspergillus fumigatus</i> nHF-01. <i>Scientific Reports</i> , 2022, 12, 6006.	3.3	7
57	A dual-channel chemodosimetric sensor for discrimination between hypochlorite and nerve-agent mimic DCP: application on human breast cancer cells. <i>Organic and Biomolecular Chemistry</i> , 2022, 20, 4803-4814.	2.8	7
58	Elucidating the chemical and biochemical applications of <i>Citrus sinensis</i> -mediated silver nanocrystal. <i>Journal of Biomolecular Structure and Dynamics</i> , 2019, 37, 4863-4874.	3.5	6
59	Response to MacIntyre et al., 2020: A rapid systematic review of the efficacy of face masks and respirators against coronaviruses and other respiratory transmissible viruses for the community, healthcare workers and sick patients. <i>International Journal of Nursing Studies</i> , 2020, 109, 103714.	5.6	6
60	Studies on the gene regulation involved in the lytic-lysogenic switch in <i>Staphylococcus aureus</i> temperate bacteriophage Phi11. <i>Journal of Biochemistry</i> , 2020, 168, 659-668.	1.7	6
61	Characterization of a novel theta-type plasmid pSM409 of <i>Enterococcus faecium</i> RME isolated from raw milk. <i>Gene</i> , 2021, 777, 145459.	2.2	6
62	Study of epidemiological behaviour of malaria and its control in the Purulia district of West Bengal, India (2016-2020). <i>Scientific Reports</i> , 2022, 12, 630.	3.3	6
63	Morpho-biochemical and molecular characterization of two new strains of <i>Aspergillus fumigatus</i> nHF-01 and <i>A. fumigatus</i> PPR-01 producing broad-spectrum antimicrobial compounds. <i>Brazilian Journal of Microbiology</i> , 2021, 52, 905-917.	2.0	5
64	Nod factors are dispensable for nodulation: A twist in bradyrhizobia-legume symbiosis. <i>Symbiosis</i> , 2022, 86, 1-15.	2.3	5
65	Poly-cis-isoprene Degradation by <i>Nocardia</i> sp. BSTN01 Isolated from Industrial Waste. <i>Applied Biochemistry and Biotechnology</i> , 2022, 194, 3333-3350.	2.9	5
66	Immune escape facilitation by mutations of epitope residues in RdRp of SARS-CoV-2. <i>Journal of Biomolecular Structure and Dynamics</i> , 2023, 41, 3542-3552.	3.5	5
67	A Fluorophore-Free Chemodosimeter for H ₂ S with Luminescence Turn-on Response: Hydrogen Sulphide Sensing in Garlic Extract. <i>ChemistrySelect</i> , 2016, 1, 5066-5073.	1.5	4
68	Structural analysis of sigma E interactions with core RNA polymerase and its cognate P-hsp20 promoter of <i>Mycobacterium tuberculosis</i> . <i>Journal of Biomolecular Structure and Dynamics</i> , 2016, 34, 792-799.	3.5	4
69	Identification and characterization of a CI binding operator at a distant location in the temperate staphylococcal phage Φ_{11} . <i>FEMS Microbiology Letters</i> , 2017, 364, .	1.8	4
70	Determining the Roles of a Conserved α -Helix in a Global Virulence Regulator from <i>Staphylococcus aureus</i> . <i>Protein Journal</i> , 2018, 37, 103-112.	1.6	4
71	Draft Genome Sequence of <i>Lactococcus lactis</i> subsp. <i>lactis</i> W8, a Potential Nisin-Producing Starter Culture for Indian Traditional Fermented Milk (Dahi). <i>Microbiology Resource Announcements</i> , 2018, 7, .	0.6	4
72	Fluorescence resonance energy transfer (FRET) signaling with zinc ensemble: a new array of investigating prevalence of ATP in liver cancer cells. <i>New Journal of Chemistry</i> , 2021, 45, 3188-3192.	2.8	4

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73	<i>Streptomyces cupreus</i> sp. nov., an antimicrobial producing actinobacterium isolated from Himalayan soil. <i>Archives of Microbiology</i> , 2021, 203, 1601-1609.	2.2	4
74	Production of extracellular lipase from psychrotrophic bacterium <i>Oceanisphaera</i> sp. RSAP17 isolated from arctic soil. <i>Antonie Van Leeuwenhoek</i> , 2021, 114, 2175-2188.	1.7	4
75	Microbial Degradation of Natural and Synthetic Rubbers. , 2020, , 527-550.		4
76	<i>Gordonia</i> sp. BSTG01 isolated from <i>Hevea brasiliensis</i> plantation efficiently degrades polyisoprene (rubber). <i>3 Biotech</i> , 2021, 11, 508.	2.2	4
77	An antibacterial compound pyrimidomycin produced by <i>Streptomyces</i> sp. PSAA01 isolated from soil of Eastern Himalayan foothill. <i>Scientific Reports</i> , 2022, 12, .	3.3	4
78	Interactions of sulfur oxidation repressor with its promoters involve different binding geometries. <i>Archives of Microbiology</i> , 2012, 194, 737-747.	2.2	3
79	A Surfactant-Induced Functional Modulation of a Global Virulence Regulator from <i>Staphylococcus aureus</i> . <i>PLoS ONE</i> , 2016, 11, e0151426.	2.5	3
80	Anti-enteric efficacy and mode of action of tridecanoic acid methyl ester isolated from <i>Monochoria hastata</i> (L.) Solms leaf. <i>Brazilian Journal of Microbiology</i> , 2022, , 1.	2.0	3
81	Different soil salinity imparts clear alteration in rhizospheric bacterial community dynamics in rice and peanut. <i>Archives of Microbiology</i> , 2022, 204, 36.	2.2	3
82	Comprehensive genome analysis of <i>Lentzea</i> reveals repertoire of polymer-degrading enzymes and bioactive compounds with clinical relevance. <i>Scientific Reports</i> , 2022, 12, 8409.	3.3	3
83	2-Deoxy-5-(hydroxymethyl)cytidine: estimation in human cancer cells with a simple chemosensor. <i>RSC Advances</i> , 2018, 8, 39893-39896.	3.6	2
84	Effect of different stimuli on twitching behavior of endophytic bacteria isolated from <i>Loranthus</i> sp. Jacq.. <i>Antonie Van Leeuwenhoek</i> , 2020, 113, 1489-1505.	1.7	2
85	The C-terminal domain of <i>M. tuberculosis</i> ECF sigma factor I (SigI) interferes in SigI-RNAP interaction. <i>Journal of Molecular Modeling</i> , 2020, 26, 77.	1.8	2
86	<i>Streptomyces himalayensis</i> sp. nov. including <i>Streptomyces himalayensis</i> subsp. <i>himalayensis</i> subsp. nov. and <i>Streptomyces himalayensis</i> subsp. <i>aureolus</i> subsp. nov. isolated from Western Himalaya. <i>Archives of Microbiology</i> , 2021, 203, 2325-2334.	2.2	2
87	Spectroscopic and Computational Studies on a Dansyl Based Luminescent Probe: Detection of Water Contaminant in Hygroscopic Deuterated Solvents. <i>Letters in Organic Chemistry</i> , 2022, 19, 71-82.	0.5	2
88	Implication from the predicted docked interaction of sigma H and exploration of its interaction with RNA polymerase in <i>Mycobacterium tuberculosis</i> . <i>Bioinformation</i> , 2015, 11, 296-301.	0.5	2
89	Culturable Bacterial Isolates from Arctic Soil shows High Biotechnological Potential. <i>Journal of Pure and Applied Microbiology</i> , 2022, 16, 235-245.	0.9	2
90	Insights from the comparative genome analysis of natural rubber degrading <i>Nocardia</i> species. <i>Bioinformation</i> , 2021, 17, 880-890.	0.5	2

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91	Identification of a suitable promoter for the sigma factor of <i>Mycobacterium tuberculosis</i> . <i>Molecular BioSystems</i> , 2017, 13, 2370-2378.	2.9	1
92	Screening and Production of Biodegradable Polyester Poly(3-hydroxybutyrate) by Bacteria Endophytic to <i>Brassica nigra</i> L.. <i>British Biotechnology Journal</i> , 2015, 7, 134-146.	0.4	1
93	Different Anisotropic Silver Nanocrystals Show Different Antibacterial Activities – An Effect of Different Prominent Crystallographic Orientations in Different Shapes. <i>Current Science</i> , 2020, 118, 1903.	0.8	1
94	GC-MS Analysis of Anti-Enterobacterial Dichloromethane Fraction of Mandukaparni (<i>Hydrocotyle</i>) Tj ETQq0 0 0 rgBT /Overlock 10 Tf 50	0.8	1
95	Whole-Genome Shotgun (WGS) Sequence of <i>Cis</i> -Isoprene Polymer-Degrading <i>Nocardia</i> sp. strain BSTN01. <i>Microbiology Resource Announcements</i> , 2022, , e0117521.	0.6	1
96	Genomic Clues of a Multidrug-Resistant Bacterium from Cultured Domestic Silkworm (<i>Bombyx mori</i>) Tj ETQq0 0 0 rgBT /Overlock 10 Tf 50	0.6	1
97	Draft Genome Sequence of <i>Streptomyces</i> sp. Strain PSAA01, Isolated from the Soil of Eastern Himalayan Foothills. <i>Microbiology Resource Announcements</i> , 0, , .	0.6	1
98	The Sulfur Oxidation Operon Repressor Function is Influenced by the Product of its Adjacent Upstream ORF in <i>Pseudaminobacter salicylatoxidans</i> KCT001. <i>Current Microbiology</i> , 2012, 64, 259-264.	2.2	0
99	<i>Mycobacterium tuberculosis</i> H37 Rv1222: structural insight in transcription inhibition. <i>Journal of Biomolecular Structure and Dynamics</i> , 2017, 35, 1574-1581.	3.5	0
100	Distribution of sigma factors delineates segregation of virulent and avirulent <i>Mycobacterium</i> . <i>Archives of Microbiology</i> , 2021, 203, 1627-1640.	2.2	0