

Santi M Mandal

List of Publications by Year in descending order

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92
papers

2,854
citations

159573

30
h-index

189881

50
g-index

95
all docs

95
docs citations

95
times ranked

4509
citing authors

#	ARTICLE	IF	CITATIONS
1	Phenolic acids act as signaling molecules in plant-microbe symbioses. <i>Plant Signaling and Behavior</i> , 2010, 5, 359-368.	2.4	530
2	Identification and structural insights of three novel antimicrobial peptides isolated from green coconut water. <i>Peptides</i> , 2009, 30, 633-637.	2.4	105
3	Challenges and future prospects of antibiotic therapy: from peptides to phages utilization. <i>Frontiers in Pharmacology</i> , 2014, 5, 105.	3.5	104
4	Lipopeptides in microbial infection control: Scope and reality for industry. <i>Biotechnology Advances</i> , 2013, 31, 338-345.	11.7	102
5	The Role of the Mammalian DNA End-processing Enzyme Polynucleotide Kinase 3 ϵ -Phosphatase in Spinocerebellar Ataxia Type 3 Pathogenesis. <i>PLoS Genetics</i> , 2015, 11, e1004749.	3.5	84
6	Role of Human DNA Glycosylase Nei-like 2 (NEIL2) and Single Strand Break Repair Protein Polynucleotide Kinase 3 ϵ -Phosphatase in Maintenance of Mitochondrial Genome. <i>Journal of Biological Chemistry</i> , 2012, 287, 2819-2829.	3.4	77
7	Isolation and characterization of diverse antimicrobial lipopeptides produced by <i>Citrobacter</i> and <i>Enterobacter</i> . <i>BMC Microbiology</i> , 2013, 13, 152.	3.3	71
8	Characterization of two antimicrobial peptides produced by a halotolerant <i>Bacillus subtilis</i> strain SK.DU.4 isolated from a rhizosphere soil sample. <i>AMB Express</i> , 2013, 3, 2.	3.0	68
9	Structural characterization of new Schiff bases of sulfamethoxazole and sulfathiazole, their antibacterial activity and docking computation with DHPS protein structure. <i>Spectrochimica Acta - Part A: Molecular and Biomolecular Spectroscopy</i> , 2015, 150, 268-279.	3.9	60
10	Identification of an antifungal peptide from <i>Trapa natans</i> fruits with inhibitory effects on <i>Candida tropicalis</i> biofilm formation. <i>Peptides</i> , 2011, 32, 1741-1747.	2.4	57
11	N, N ϵ -Olefin Functionalized Bis-Imidazolium Gold(I) Salt Is an Efficient Candidate to Control Keratitis-Associated Eye Infection. <i>PLoS ONE</i> , 2013, 8, e58346.	2.5	57
12	Purification, biochemical characterization and self-assembled structure of a fengycin-like antifungal peptide from <i>Bacillus thuringiensis</i> strain SM1. <i>Frontiers in Microbiology</i> , 2013, 4, 332.	3.5	53
13	Spectroscopic characterization, antimicrobial activity, DFT computation and docking studies of sulfonamide Schiff bases. <i>Journal of Molecular Structure</i> , 2017, 1127, 557-567.	3.6	52
14	Identification of multifunctional peptides from human milk. <i>Peptides</i> , 2014, 56, 84-93.	2.4	51
15	Phenolic Compounds in Antimicrobial Therapy. <i>Journal of Medicinal Food</i> , 2017, 20, 1031-1038.	1.5	51
16	Identification and characterization of a bactericidal and proapoptotic peptide from <i>Cycas revoluta</i> seeds with DNA binding properties. <i>Journal of Cellular Biochemistry</i> , 2012, 113, 184-193.	2.6	50
17	<i>Cn</i> -AMP1: A new promiscuous peptide with potential for microbial infections treatment. <i>Biopolymers</i> , 2012, 98, 322-331.	2.4	45
18	Lignin-graft-Polyoxazoline Conjugated Triazole a Novel Anti-Infective Ointment to Control Persistent Inflammation. <i>Scientific Reports</i> , 2017, 7, 46412.	3.3	44

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19	Characterization of a symbiotically effective Rhizobium resistant to arsenic: Isolated from the root nodules of Vigna mungo (L.) Hepper grown in an arsenic-contaminated field. Journal of General and Applied Microbiology, 2008, 54, 93-99.	0.7	42
20	Recombinant probiotics with antimicrobial peptides: a dual strategy to improve immune response in immunocompromised patients. Drug Discovery Today, 2014, 19, 1045-1050.	6.4	41
21	Antibacterial Effect of Lanthanum Calcium Manganate (La _{0.67} /Ca _{0.33} /MnO ₃) Nanoparticles Against Pseudomonas aeruginosa ATCC 27853. Journal of Biomedical Nanotechnology, 2010, 6, 138-144.	1.1	40
22	Purification and characterization of a novel lipopeptide from Streptomyces amritsarensis sp. nov. active against methicillin-resistant Staphylococcus aureus. AMB Express, 2014, 4, 50.	3.0	40
23	Stimulation of indoleacetic acid production in a Rhizobium isolate of Vigna mungo by root nodule phenolic acids. Archives of Microbiology, 2009, 191, 389-393.	2.2	38
24	Effects of lactoferricin B against keratitis-associated fungal biofilms. Journal of Infection and Chemotherapy, 2012, 18, 698-703.	1.7	38
25	Cm-p5: an antifungal hydrophilic peptide derived from the coastal mollusk <i>Cenchritis muricatus</i> (Gastropoda: Littorinidae). FASEB Journal, 2015, 29, 3315-3325.	0.5	38
26	Bacteria and bacterial anticancer agents as a promising alternative for cancer therapeutics. Biochimie, 2020, 177, 164-189.	2.6	38
27	Biocides and health-care agents are more than just antibiotics: Inducing cross to co-resistance in microbes. Ecotoxicology and Environmental Safety, 2019, 174, 601-610.	6.0	37
28	The attack of the phytopathogens and the trumpet solo: Identification of a novel plant antifungal peptide with distinct fold and disulfide bond pattern. Biochimie, 2013, 95, 1939-1948.	2.6	34
29	Functional and structural insights on self-assembled nanofiber-based novel antibacterial ointment from antimicrobial peptides, bacitracin and gramicidin S. Journal of Antibiotics, 2014, 67, 771-775.	2.0	32
30	Dissemination of antibiotic resistance in methicillin-resistant Staphylococcus aureus and vancomycin-resistant S aureus strains isolated from hospital effluents. American Journal of Infection Control, 2015, 43, e87-e88.	2.3	31
31	Rapid determination of vitamin B2 and B12 in human urine by isocratic liquid chromatography. Analytica Chimica Acta, 2009, 640, 110-113.	5.4	27
32	Probiotics-Derived Peptides and Their Immunomodulatory Molecules Can Play a Preventive Role Against Viral Diseases Including COVID-19. Probiotics and Antimicrobial Proteins, 2021, 13, 611-623.	3.9	27
33	Theoretical analysis of bacterial efflux pumps inhibitors: Strategies in-search of competent molecules and develop next. Computational Biology and Chemistry, 2020, 87, 107275.	2.3	26
34	Self-assembled cardanol azo derivatives as antifungal agent with chitin-binding ability. International Journal of Biological Macromolecules, 2014, 69, 5-11.	7.5	25
35	Glucose Directly Promotes Antifungal Resistance in the Fungal Pathogen, Candida spp.. Journal of Biological Chemistry, 2014, 289, 25469-25473.	3.4	24
36	Structural Studies of a Lipid-Binding Peptide from Tunicate Hemocytes with Anti-Biofilm Activity. Scientific Reports, 2016, 6, 27128.	3.3	24

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37	Novel boronic acid derivatives of bis(indolyl) methane as anti-MRSA agents. <i>Bioorganic and Medicinal Chemistry Letters</i> , 2017, 27, 2135-2138.	2.2	24
38	Biomedical Exploitation of Self Assembled Peptide Based Nanostructures. <i>Current Protein and Peptide Science</i> , 2013, 14, 580-587.	1.4	24
39	Purification and structural characterization of a novel antibacterial peptide from <i>Bellamyia bengalensis</i> : Activity against ampicillin and chloramphenicol resistant <i>Staphylococcus epidermidis</i> . <i>Peptides</i> , 2011, 32, 691-696.	2.4	23
40	Fractional changes in phenolic acids composition in root nodules of <i>Arachis hypogaea</i> L.. <i>Plant Growth Regulation</i> , 2008, 55, 159-163.	3.4	22
41	Identification and structural characterization of a new pro-apoptotic cyclic octapeptide cyclosaplin from somatic seedlings of <i>Santalum album</i> L.. <i>Peptides</i> , 2014, 54, 148-158.	2.4	22
42	Curd-Peptide Based Novel Hydrogel Inhibits Biofilm Formation, Quorum Sensing, Swimming Mortality of Multi-Antibiotic Resistant Clinical Isolates and Accelerates Wound Healing Activity. <i>Frontiers in Microbiology</i> , 2019, 10, 951.	3.5	21
43	Understanding the patterns of antibiotic susceptibility of bacteria causing urinary tract infection in West Bengal, India. <i>Frontiers in Microbiology</i> , 2014, 5, 463.	3.5	19
44	Pd ^{II} /Ag ^I -Catalyzed Room-Temperature Reaction of β -Hydroxy Lactams: Mechanism, Scope, and Antistaphylococcal Activity. <i>Journal of Organic Chemistry</i> , 2017, 82, 2193-2198.	3.2	19
45	Fluoroquinolone antibiotics show genotoxic effect through DNA-binding and oxidative damage. <i>Spectrochimica Acta - Part A: Molecular and Biomolecular Spectroscopy</i> , 2020, 227, 117634.	3.9	19
46	Water soluble sulfaguanidine based Schiff base as a "Turn-on" fluorescent probe for intracellular recognition of Zn ²⁺ in living cells and exploration for biological activities. <i>Polyhedron</i> , 2019, 172, 28-38.	2.2	18
47	Cytotoxic potency of self-assembled Ruthenium(II)-NHC complexes with pincer type 2, 6-bis(N-methylimidazolylidene/benzimidazolylidene)pyrazine ligands. <i>Journal of Cancer Research and Therapeutics</i> , 2015, 11, 105.	0.9	17
48	LPD-12: a promising lipopeptide to control COVID-19. <i>International Journal of Antimicrobial Agents</i> , 2021, 57, 106218.	2.5	17
49	In Silico Identification of a Potent Arsenic Based Approved Drug Darinaparsin against SARS-CoV-2: Inhibitor of RNA Dependent RNA polymerase (RdRp) and Essential Proteases. <i>Infectious Disorders - Drug Targets</i> , 2021, 21, 608-618.	0.8	17
50	Conservation and Enhanced Binding of SARS-CoV-2 Omicron Spike Protein to Coreceptor Neuropilin-1 Predicted by Docking Analysis. <i>Infectious Disease Reports</i> , 2022, 14, 243-249.	3.1	17
51	Structural insights into CnAMP1, a short disulfide-free multifunctional peptide from green coconut water. <i>FEBS Letters</i> , 2015, 589, 639-644.	2.8	16
52	Controlling resistant bacteria with a novel class of β -lactamase inhibitor peptides: from rational design to in vivo analyses. <i>Scientific Reports</i> , 2014, 4, 6015.	3.3	16
53	Synthesis of DNA-Intercalating 6-Hydroxy-Benzo[<i>c</i>]chromen-6-ones Derivatives through a Strategic Combination of Garratt's Braverman and Minisci Acyloxylation Reactions. <i>European Journal of Organic Chemistry</i> , 2016, 2016, 1439-1448.	2.4	16
54	Screening of serine protease inhibitors with antimicrobial activity using iron oxide nanoparticles functionalized with dextran conjugated trypsin and in silico analyses of bacterial serine protease inhibition. <i>Analyst</i> , 2014, 139, 464-472.	3.5	15

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55	Purification and characterization of a novel antimicrobial peptide (QAK) from the hemolymph of <i>Antheraea mylitta</i> . <i>Biochemical and Biophysical Research Communications</i> , 2020, 527, 411-417.	2.1	14
56	Electrochemical communication in biofilm of bacterial community. <i>Journal of Basic Microbiology</i> , 2020, 60, 819-827.	3.3	14
57	A self-assembled clavanin A-coated amniotic membrane scaffold for the prevention of biofilm formation by ocular surface fungal pathogens. <i>Biofouling</i> , 2017, 33, 881-891.	2.2	13
58	Coevolution of Resistance Against Antimicrobial Peptides. <i>Microbial Drug Resistance</i> , 2020, 26, 880-899.	2.0	13
59	Synergy of melanin and vitamin-D may play a fundamental role in preventing SARS-CoV-2 infections and halt COVID-19 by inactivating furin protease. <i>Translational Medicine Communications</i> , 2020, 5, 21.	1.4	12
60	Antimicrobial Peptides and Vaccine Development to Control Multi-drug Resistant Bacteria. <i>Protein and Peptide Letters</i> , 2019, 26, 324-331.	0.9	12
61	Antibiotics Associated Disorders and Post-biotics Induced Rescue in Gut Health. <i>Current Pharmaceutical Design</i> , 2018, 24, 821-829.	1.9	12
62	New insights into the bioactivity of peptides from probiotics. <i>Frontiers in Bioscience - Elite</i> , 2016, 8, 450-459.	1.8	12
63	Characterization of a Gloverin-Like Antimicrobial Peptide Isolated from Muga Silkworm, <i>Antheraea assamensis</i> . <i>International Journal of Peptide Research and Therapeutics</i> , 2018, 24, 337-346.	1.9	11
64	Iron Oxide Nanoparticle Assisted Purification and Mass Spectrometry Based Proteolytic Mapping of Intact CD4+T Cells from Human Blood. <i>Preparative Biochemistry and Biotechnology</i> , 2008, 39, 20-31.	1.9	9
65	Transcriptional regulation of human defense peptides: a new direction in infection control. <i>Biological Chemistry</i> , 2018, 399, 1277-1284.	2.5	9
66	LC-MALDI-TOF MS-based rapid identification of phenolic acids. <i>Journal of Biomolecular Techniques</i> , 2008, 19, 116-21.	1.5	9
67	Next-generation nanoantibacterial tools developed from peptides. <i>Nanomedicine</i> , 2015, 10, 1643-1661.	3.3	8
68	Proteomics view of a <i>Rhizobium</i> isolate response to arsenite [As(III)] stress. <i>Acta Microbiologica Et Immunologica Hungarica</i> , 2009, 56, 157-167.	0.8	7
69	The Use of MALDI-TOF-MS and <i>In Silico</i> Studies for Determination of Antimicrobial Peptides' Affinity to Bacterial Cells. <i>Journal of the American Society for Mass Spectrometry</i> , 2012, 23, 1939-1948.	2.8	7
70	Antibacterial coating on in-line suction respiratory catheter to inhibit the bacterial biofilm formation using renewable cardanyl methacrylate copolymer. <i>Journal of Biomaterials Science, Polymer Edition</i> , 2017, 28, 365-379.	3.5	7
71	π-Stacking assisted redox active peptide-gallol conjugate: synthesis of a new generation of low-toxicity antimicrobial silver nanoparticles. <i>RSC Advances</i> , 2016, 6, 85254-85260.	3.6	6
72	Self-Assembled Tea Tannin Graft Copolymer as Nanocarriers for Antimicrobial Drug Delivery and Wound Healing Activity. <i>Journal of Nanoscience and Nanotechnology</i> , 2018, 18, 2361-2369.	0.9	6

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73	Existence of Carbon Nanodots in Human Blood. <i>Journal of Nanoscience and Nanotechnology</i> , 2019, 19, 6961-6964.	0.9	6
74	Biologia Futura: use of biocides during COVID-19-global reshuffling of the microbiota. <i>Biologia Futura</i> , 2021, 72, 273-280.	1.4	6
75	Self-assembled capsules of poly-N-glycidyl histidine ether-tannic acid for inhibition of biofilm formation in urinary catheters. <i>RSC Advances</i> , 2015, 5, 69215-69219.	3.6	5
76	A Review on Quantum Dots: Synthesis to In-silico Analysis as Next Generation Antibacterial Agents. <i>Current Drug Targets</i> , 2019, 20, 255-262.	2.1	5
77	Self-assembled amphotericin B loaded into a self-assembled cardanol derivative as a soft green carrier for delivery and enhanced antifungal activity. <i>RSC Advances</i> , 2014, 4, 48559-48562.	3.6	4
78	Molecular self-assembly of copolymer from renewable phenols: new class of antimicrobial ointment base. <i>Journal of Biomaterials Science, Polymer Edition</i> , 2018, 29, 2187-2200.	3.5	4
79	Chloramphenicol-borate/boronate complex for controlling infections by chloramphenicol-resistant bacteria. <i>RSC Advances</i> , 2018, 8, 18016-18022.	3.6	4
80	Identification of a novel humoral antifungal defense molecule in the hemolymph of tasar silkworm <i>Antheraea mylitta</i> . <i>Biochemical and Biophysical Research Communications</i> , 2019, 519, 121-126.	2.1	4
81	Identification of a novel proline-rich antimicrobial protein from the hemolymph of <i>Antheraea mylitta</i> . <i>Archives of Insect Biochemistry and Physiology</i> , 2021, 106, e21771.	1.5	4
82	Induction of nodD Gene in a <i>Beta</i> rhizobium Isolate, <i>Cupriavidus</i> sp. of <i>Mimosa pudica</i> , by Root Nodule Phenolic Acids. <i>Current Microbiology</i> , 2016, 72, 733-737.	2.2	3
83	Colistin Induced Assortment of Antimicrobial Resistance in a Clinical Isolate of <i>Acinetobacter baumannii</i> SD01. <i>Infectious Disorders - Drug Targets</i> , 2020, 20, 501-505.	0.8	3
84	Kaajal fights against eye pathogens and is safe for eye make-up: a reinvestigation of an ancient practice. <i>Analyst</i> , The, 2013, 138, 5197.	3.5	2
85	Crede's method in eye water finds a nanomedicine base: a potential candidate to control ophthalmia neonatorum. <i>European Journal of Nanomedicine</i> , 2016, 8, .	0.6	2
86	Inhaler with electrostatic sterilizer and use of cationic amphiphilic peptides may accelerate recovery from COVID-19. <i>BioTechniques</i> , 2020, 69, 206-210.	1.8	2
87	Brief survey on phytochemicals to prevent COVID-19. <i>Journal of the Indian Chemical Society</i> , 2022, 99, 100244.	2.8	2
88	Successful Control of a Co-Infection Caused by <i>Candida albicans</i> and <i>Pseudomonas aeruginosa</i> in Keratitis. <i>Infectious Disorders - Drug Targets</i> , 2021, 21, 284-288.	0.8	1
89	Novolac-based Polymer-silver Nanoparticles Hybrid: Synthesis, Characterization and Antibacterial Evaluation. <i>Current Applied Polymer Science</i> , 2019, 3, 75-82.	0.2	1
90	Peptide targets to SARS-CoV-2. <i>Journal of Global Infectious Diseases</i> , 2020, 12, 234.	0.5	1

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91	Short Amphiphiles or Micelle Peptides May Help to Fight Against COVID-19. Current Protein and Peptide Science, 2022, 23, 33-43.	1.4	1
92	Mutant Ataxin ³ inhibits 3 TM phosphatase activity of human polynucleotide kinase 3 ² phosphatase (PNKP) _{0.5} FASEB Journal, 2013, 27, .		0