

# Amit Kumar Mandal

## List of Publications by Year in descending order

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73  
papers

2,469  
citations

236612

25  
h-index

214527

47  
g-index

74  
all docs

74  
docs citations

74  
times ranked

3748  
citing authors

#	ARTICLE	IF	CITATIONS
1	Advancement of noble metallic nanoparticles in agriculture: A promising future. <i>Pedosphere</i> , 2023, 33, 116-128.	2.1	9
2	Synthesis of biogenic silver nanoparticles using medicinal plant extract: A new age in nanomedicine to combat multidrug-resistant pathogens. , 2022, , 359-387.		3
3	Synthesis of taurine-Cu <sub>3</sub> (PO <sub>4</sub> ) <sub>2</sub> hybrid nanoflower and their peroxidase-mimic and antimicrobial properties. <i>Journal of Biotechnology</i> , 2022, 343, 96-101.	1.9	21
4	New Age Detection of Viruses: The Nano-Biosensors. <i>Frontiers in Nanotechnology</i> , 2022, 3, .	2.4	11
5	Study of epidemiological behaviour of malaria and its control in the Purulia district of West Bengal, India (2016â€“2020). <i>Scientific Reports</i> , 2022, 12, 630.	1.6	6
6	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.	0.3	1
7	Silkworm pupae as a future food with nutritional and medicinal benefits. <i>Current Opinion in Food Science</i> , 2022, 44, 100818.	4.1	11
8	Dopamine and norepinephrine assistant-synthesized nanoflowers immobilized membrane with peroxidase mimic activity for efficient detection of model substrates. <i>Applied Nanoscience (Switzerland)</i> , 2021, 11, 117-125.	1.6	23
9	Salt-Tolerant and Plant Growth-Promoting Rhizobacteria: A New-Fangled Approach for Improving Crop Yield. , 2021, , 367-385.		1
10	Green synthesis of carbon nanoparticles: characterization and their biocidal properties. , 2021, , 277-306.		3
11	Purification and identification of a surfactin biosurfactant and engine oil degradation by <i>Bacillus velezensis</i> KLP2016. <i>Microbial Cell Factories</i> , 2021, 20, 26.	1.9	29
12	Exogenous pulmonary surfactant: A review focused on adjunctive therapy for severe acute respiratory syndrome coronavirus 2 including SP-A and SP-D as added clinical marker. <i>Current Opinion in Colloid and Interface Science</i> , 2021, 51, 101413.	3.4	37
13	COVID-19 Epigenetics and Implications for Public Health. <i>Coronaviruses</i> , 2021, 2, 235-240.	0.2	2
14	A review on antiviral and immunomodulatory polysaccharides from Indian medicinal plants, which may be beneficial to COVID-19 infected patients. <i>International Journal of Biological Macromolecules</i> , 2021, 181, 462-470.	3.6	17
15	Current concepts and prospects of mulberry fruits for nutraceutical and medicinal benefits. <i>Current Opinion in Food Science</i> , 2021, 40, 121-135.	4.1	15
16	Antimicrobial peptides from <i>Bombyx mori</i> : a splendid immune defense response in silkworms. <i>RSC Advances</i> , 2020, 10, 512-523.	1.7	34
17	Response to MacIntyre etÂ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 patientsâ€• <i>International Journal of Nursing Studies</i> , 2020, 109, 103714.	2.5	6
18	COVID-19: Impact on transport and mental health. <i>Journal of Transport and Health</i> , 2020, 19, 100969.	1.1	21

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19	Hierarchical Assembly of Nanodimensional Silver-Silver Oxide Physical Gels Controlling Nosocomial Infections. ACS Omega, 2020, 5, 32617-32631.	1.6	9
20	Can concomitant use of zinc and curcumin with other immunity-boosting nutraceuticals be the arsenal against COVID-19?. Phytotherapy Research, 2020, 34, 2425-2428.	2.8	41
21	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> ). RSC Advances, 2020, 10, 22742-22757.	1.7	45
22	Fluorescent sp <sup>3</sup> Defect-Tailored Carbon Nanotubes Enable NIR-II Single Particle Imaging in Live Brain Slices at Ultra-Low Excitation Doses. Scientific Reports, 2020, 10, 5286.	1.6	46
23	Fermented Foods for Health. , 2020, , 73-84.		1
24	Physical and dielectric properties of poly(vinylidene fluoride)/polybenzimidazole functionalized graphene nanocomposites. Journal of Polymer Science, Part B: Polymer Physics, 2019, 57, 189-201.	2.4	9
25	Effect of feed supplementation with biosynthesized silver nanoparticles using leaf extract of <i>Morus indica</i> L. V1 on <i>Bombyx mori</i> L. (Lepidoptera: Bombycidae). Scientific Reports, 2019, 9, 14839.	1.6	82
26	Green synthesis of silver nanoparticles: biomolecule-nanoparticle organizations targeting antimicrobial activity. RSC Advances, 2019, 9, 2673-2702.	1.7	637
27	The antibacterial and anticancer properties of zinc oxide coated iron oxide nanotextured composites. Colloids and Surfaces B: Biointerfaces, 2019, 177, 512-519.	2.5	43
28	Biosynthesis of silver nanoparticles and their versatile antimicrobial properties. Materials Research Express, 2019, 6, 012001.	0.8	72
29	Flocculating, emulsification and metal sorption properties of a partial characterized novel exopolysaccharide produced by <i>Rhizobium tropici</i> SRA1 isolated from <i>Psophocarpus tetragonolobus</i> (L) D.C.. International Microbiology, 2019, 22, 91-101.	1.1	3
30	Characterization of residue-specific glutathionylation of CSF proteins in multiple sclerosis - A MS-based approach. Analytical Biochemistry, 2019, 564-565, 108-115.	1.1	4
31	Ultraviolet radiation-induced DNA damage is prognostic for outcome in melanoma. Nature Medicine, 2019, 25, 221-224.	15.2	75
32	Exploring the dual impact of hydrocarbon chainlength and the role of piroxicam a conventional NSAID on soylcithin/ion pair amphiphiles mediated hybrid vesicles for brain tumor targeted drug delivery. Colloids and Surfaces A: Physicochemical and Engineering Aspects, 2018, 546, 334-345.	2.3	2
33	Characterization and Strain Improvement of Aerobic Denitrifying EPS Producing Bacterium <i>Bacillus cereus</i> PB88 for Shrimp Water Quality Management. Waste and Biomass Valorization, 2018, 9, 1319-1330.	1.8	24
34	Spectroscopic investigation on interaction of biogenic, <i>Croton bonplandianum</i> leaves extract mediated potential bactericidal silver nanoparticles with human hemoglobin and human serum albumin. Journal of Biomolecular Structure and Dynamics, 2018, 36, 711-723.	2.0	17
35	Arjunolic Acid Improves the Serum Level of Vitamin B12 and Folate in the Process of the Attenuation of Arsenic Induced Uterine Oxidative Stress. Biological Trace Element Research, 2018, 182, 78-90.	1.9	19
36	Suicidal behaviour is associated with decreased esterified cholesterol in plasma and membrane fluidity of platelets. Asian Journal of Psychiatry, 2018, 32, 105-109.	0.9	10

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37	Biophysical Correlates on the Composition, Functionality, and Structure of Dendrimer-Liposome Aggregates. ACS Omega, 2018, 3, 12235-12245.	1.6	8
38	Probing the binding of <i>Spathodea campanulata</i> leaves extract mediated biogenic potential microbicidal silver nanoparticles to human serum albumin: An insight in the light of spectroscopic approach. Journal of Luminescence, 2018, 202, 147-156.	1.5	5
39	Silica-Coated Metal Oxide Nanoparticles: Magnetic and Cytotoxicity Studies. ChemistrySelect, 2018, 3, 7346-7353.	0.7	8
40	Conformational heterogeneity of tau: Implication on intrinsic disorder, acid stability and fibrillation in Alzheimer's disease. Biophysical Chemistry, 2018, 241, 27-37.	1.5	26
41	Impact of detergents on the physicochemical behavior of itraconazole loaded nanostructured lipid carriers. Colloids and Surfaces A: Physicochemical and Engineering Aspects, 2017, 516, 63-71.	2.3	6
42	Spectroscopic interaction study of human serum albumin and human hemoglobin with <i>Mersilea quadrifolia</i> leaves extract mediated silver nanoparticles having antibacterial and anticancer activity. Journal of Molecular Structure, 2017, 1141, 584-592.	1.8	34
43	Study of the interaction of human serum albumin with <i>Alstonia scholaris</i> leaf extract-mediated silver nanoparticles having bactericidal property. Process Biochemistry, 2017, 60, 59-66.	1.8	18
44	Photocatalytic and Antibacterial Performance of $\text{Fe}_2\text{O}_3$ Nanostructures. ChemistrySelect, 2017, 2, 3068-3077.	0.7	28
45	Structural elucidation and immunostimulating property of a novel polysaccharide extracted from an edible mushroom <i>Lentinus fusipes</i> . Carbohydrate Polymers, 2017, 157, 1657-1665.	5.1	33
46	Biopotentiality of <i>Bacillus cereus</i> PB45 for nitrogenous waste detoxification in ex situ model. Aquaculture International, 2017, 25, 1167-1183.	1.1	12
47	High dielectric poly(vinylidene fluoride) nanocomposite films with $\text{MoS}_2$ using polyaniline interlinker via interfacial interaction. Journal of Materials Chemistry C, 2017, 5, 12121-12133.	2.7	75
48	Green synthesis of silver nanoparticles using <i>Pongamia pinnata</i> seed: Characterization, antibacterial property, and spectroscopic investigation of interaction with human serum albumin. Journal of Molecular Recognition, 2017, 30, e2565.	1.1	50
49	Synthesis, Characterization and Crystal Structure of a New 3D Cadmium(II) Coordination Polymer: Binding Interaction with DNA and Double Stranded RNA. Journal of Inorganic and Organometallic Polymers and Materials, 2016, 26, 806-818.	1.9	7
50	Sensing of tryptophan by a non-toxic cobalt( $\text{scp}^{\text{ii}}$ ) complex. RSC Advances, 2016, 6, 95888-95896.	1.7	17
51	Hierarchical nanostructured polyaniline functionalized graphene/poly(vinylidene fluoride) composites for improved dielectric performances. Polymer, 2016, 103, 83-97.	1.8	89
52	Double-Tailed Cystine Derivatives as Novel Substitutes of Phospholipids with Special Reference to Liposomes. Journal of Physical Chemistry B, 2016, 120, 10744-10756.	1.2	15
53	Effect of double tailed cationic surfactants on the physicochemical behavior of hybrid vesicles. RSC Advances, 2016, 6, 13786-13796.	1.7	24
54	Bacterial keratinolytic protease, imminent starter for NextGen leather and detergent industries. Sustainable Chemistry and Pharmacy, 2016, 3, 8-22.	1.6	46

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55	Structural elucidation and biological studies of a novel exopolysaccharide from <i>Klebsiella pneumoniae</i> PB12. <i>International Journal of Biological Macromolecules</i> , 2015, 79, 413-422.	3.6	9
56	Enzymatic Hydrolyzed Feather Peptide, a Welcoming Drug for Multiple-Antibiotic-Resistant <i>Staphylococcus aureus</i> : Structural Analysis and Characterization. <i>Applied Biochemistry and Biotechnology</i> , 2015, 175, 3371-3386.	1.4	13
57	Antibacterial and DNA degradation potential of silver nanoparticles synthesized via green route. <i>International Journal of Biological Macromolecules</i> , 2015, 80, 455-459.	3.6	28
58	Interface engineering of ionic liquid integrated graphene in poly(vinylidene fluoride) matrix yielding magnificent improvement in mechanical, electrical and dielectric properties. <i>Polymer</i> , 2015, 65, 154-167.	1.8	65
59	A water soluble $\beta$ -glucan of an edible mushroom <i>Termitomyces heimii</i> : Structural and biological investigation. <i>Carbohydrate Polymers</i> , 2015, 134, 375-384.	5.1	34
60	Understanding the patterns of antibiotic susceptibility of bacteria causing urinary tract infection in West Bengal, India. <i>Frontiers in Microbiology</i> , 2014, 5, 463.	1.5	19
61	Structural and immunological studies of an exopolysaccharide from <i>Acinetobacter junii</i> BB1A. <i>Carbohydrate Polymers</i> , 2014, 101, 188-195.	5.1	23
62	Bactericidal effect of polyethyleneimine capped ZnO nanoparticles on multiple antibiotic resistant bacteria harboring genes of high-pathogenicity island. <i>Colloids and Surfaces B: Biointerfaces</i> , 2014, 121, 44-53.	2.5	45
63	MitoProteomics: New Insights in Infection Biology. <i>Organelles Proteomics</i> , 2014, 1, .	0.2	0
64	Copper susceptibility in <i>Acinetobacter junii</i> BB1A is related to the production of extracellular polymeric substances. <i>Antonie Van Leeuwenhoek</i> , 2013, 104, 261-269.	0.7	9
65	Green synthesis of silver nanoparticles using glucan from mushroom and study of antibacterial activity. <i>International Journal of Biological Macromolecules</i> , 2013, 62, 439-449.	3.6	84
66	Partial characterization and flocculating behavior of an exopolysaccharide produced in nutrient-poor medium by a facultative oligotroph <i>Klebsiella</i> sp. PB12. <i>Journal of Bioscience and Bioengineering</i> , 2013, 115, 76-81.	1.1	24
67	Ionic Liquid Integrated Multiwalled Carbon Nanotube in a Poly(vinylidene fluoride) Matrix: Formation of a Piezoelectric $\beta$ -Polymorph with Significant Reinforcement and Conductivity Improvement. <i>ACS Applied Materials &amp; Interfaces</i> , 2013, 5, 747-760.	4.0	111
68	Diverse Gene Cassettes in Class 1 Integrons of Facultative Oligotrophic Bacteria of River Mahananda, West Bengal, India. <i>PLoS ONE</i> , 2013, 8, e71753.	1.1	12
69	Noncovalent Functionalization of Multiwalled Carbon Nanotube by a Polythiophene-Based Compatibilizer: Reinforcement and Conductivity Improvement in Poly(vinylidene fluoride) Films. <i>Journal of Physical Chemistry C</i> , 2012, 116, 9360-9371.	1.5	74
70	Flocculating Property of Extracellular Polymeric Substances Produced by a Biofilm-Forming Bacterium <i>Acinetobacter junii</i> BB1A. <i>Applied Biochemistry and Biotechnology</i> , 2012, 168, 1621-1634.	1.4	26
71	Study of Epidemiological Behaviour of Malaria and Its Control in the Purulia District of West Bengal, India (2016-2020). <i>SSRN Electronic Journal</i> , 0, , .	0.4	0
72	Genomic Clues of a Multidrug-Resistant Bacterium from Cultured Domestic Silkworm ( <i>Bombyx mori</i> ) Tj ETQq0 0 0 rgBT /Overlock 10 Tf	0.3	1

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73	Draft Genome Sequence of <i>Streptomyces</i> sp. Strain PSAA01, Isolated from the Soil of Eastern Himalayan Foothills. Microbiology Resource Announcements, 0, , .	0.3	1