

Amit Kumar Das

List of Publications by Year in descending order

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69
papers

1,474
citations

393982

19
h-index

344852

36
g-index

72
all docs

72
docs citations

72
times ranked

1954
citing authors

#	ARTICLE	IF	CITATIONS
1	Fabrication of Reduced Graphene Oxide/Silver Nanoparticles Decorated Conductive Cotton Fabric for High Performing Electromagnetic Interference Shielding and Antibacterial Application. <i>Fibers and Polymers</i> , 2019, 20, 1161-1171.	1.1	140
2	Sonochemical green reduction to prepare Ag nanoparticles decorated graphene sheets for catalytic performance and antibacterial application. <i>Ultrasonics Sonochemistry</i> , 2017, 39, 577-588.	3.8	133
3	A simplistic approach to green future with eco-friendly luminescent carbon dots and their application to fluorescent nano-sensor "turn-off" probe for selective sensing of copper ions. <i>Materials Science and Engineering C</i> , 2017, 75, 1456-1464.	3.8	90
4	Zinc and nitrogen ornamented bluish white luminescent carbon dots for engrossing bacteriostatic activity and Fenton based bio-sensor. <i>Materials Science and Engineering C</i> , 2018, 88, 115-129.	3.8	76
5	Waste chimney oil to nanolights: A low cost chemosensor for tracer metal detection in practical field and its polymer composite for multidimensional activity. <i>Journal of Photochemistry and Photobiology B: Biology</i> , 2018, 180, 56-67.	1.7	72
6	Surface quaternized nanosensor as a one-arrow-two-hawks approach for fluorescence turn "on" bifunctional sensing and antibacterial activity. <i>New Journal of Chemistry</i> , 2019, 43, 6205-6219.	1.4	66
7	Converting waste Allium sativum peel to nitrogen and sulphur co-doped photoluminescence carbon dots for solar conversion, cell labeling, and photobleaching diligences: A path from discarded waste to value-added products. <i>Journal of Photochemistry and Photobiology B: Biology</i> , 2019, 197, 111545.	1.7	65
8	Biocompatible carbon dots derived from Î-carrageenan and phenyl boronic acid for dual modality sensing platform of sugar and its anti-diabetic drug release behavior. <i>International Journal of Biological Macromolecules</i> , 2019, 132, 316-329.	3.6	65
9	Multi-nucleated cells use ROS to induce breast cancer chemo-resistance in vitro and in vivo. <i>Oncogene</i> , 2018, 37, 4546-4561.	2.6	61
10	Acoustic cavitation assisted de-stratified clay tactoid reinforced in situ elastomer-mimetic semi-IPN hydrogel for catalytic and bactericidal application. <i>Ultrasonics Sonochemistry</i> , 2020, 60, 104797.	3.8	49
11	3D Enhanced, High Performing, Superhydrophobic and Electromagnetic Interference Shielding Fabrics Based on Silver Paint and Their Use in Antibacterial Applications. <i>ChemistrySelect</i> , 2019, 4, 11748-11754.	0.7	45
12	Electrodeposited Cu ₂ O Nanopetal Architecture as a Superhydrophobic and Antibacterial Surface. <i>Langmuir</i> , 2019, 35, 17166-17176.	1.6	45
13	Combination of QSAR, molecular docking, molecular dynamic simulation and MM-PBSA: analogues of lopinavir and favipiravir as potential drug candidates against COVID-19. <i>Journal of Biomolecular Structure and Dynamics</i> , 2022, 40, 3711-3730.	2.0	41
14	Isolation and characterization of extracellular polysaccharide Thelebolan produced by a newly isolated psychrophilic Antarctic fungus Thelebolus. <i>Carbohydrate Polymers</i> , 2014, 104, 204-212.	5.1	33
15	NMR (1H and 13C) based signatures of abnormal choline metabolism in oral squamous cell carcinoma with no prominent Warburg effect. <i>Biochemical and Biophysical Research Communications</i> , 2015, 459, 574-578.	1.0	30
16	Carbon nanodot decorated acellular dermal matrix hydrogel augments chronic wound closure. <i>Journal of Materials Chemistry B</i> , 2020, 8, 9277-9294.	2.9	27
17	Decellularized bone matrix/oleoyl chitosan derived supramolecular injectable hydrogel promotes efficient bone integration. <i>Materials Science and Engineering C</i> , 2021, 119, 111604.	3.8	27
18	Macroscopic amyloid fiber formation by staphylococcal biofilm associated SuhB protein. <i>Biophysical Chemistry</i> , 2016, 217, 32-41.	1.5	23

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19	Predicted molecular structure of the mammalian cell entry protein Mce1A of Mycobacterium tuberculosis. <i>Biochemical and Biophysical Research Communications</i> , 2003, 302, 442-447.	1.0	22
20	Silver Nanodot Decorated Dendritic Copper Foam As a Hydrophobic and Mechano-Chemo Bactericidal Surface. <i>Langmuir</i> , 2021, 37, 9356-9370.	1.6	20
21	One-Step Synthesis of Fluorescent Carbon Dots for Bio-Labeling Assay. <i>Macromolecular Symposia</i> , 2018, 382, 1800077.	0.4	19
22	Dual Functionalized Injectable Hybrid Extracellular Matrix Hydrogel for Burn Wounds. <i>Biomacromolecules</i> , 2021, 22, 514-533.	2.6	18
23	Design and synthesis of dual probes for detection of metal ions by LALDI MS and fluorescence: application in Zn(II) imaging in cells. <i>RSC Advances</i> , 2017, 7, 7163-7169.	1.7	17
24	The Effect of Charge-Transfer Complexation/ π -Stacking Interactions in Lowering the Activation Barrier of the Bergman Cyclization. <i>European Journal of Organic Chemistry</i> , 2005, 2005, 1239-1245.	1.2	16
25	Protection of human β -crystallin from UV-induced damage by epigallocatechin gallate: spectroscopic and docking studies. <i>Molecular BioSystems</i> , 2016, 12, 2901-2909.	2.9	16
26	Label-assisted laser desorption/ionization mass spectrometry (LA-LDI-MS): use of pyrene aldehyde for detection of biogenic amines, amino acids and peptides. <i>RSC Advances</i> , 2015, 5, 106912-106917.	1.7	15
27	Crystal structure of dehydratase component HadAB complex of mycobacterial FAS-II pathway. <i>Biochemical and Biophysical Research Communications</i> , 2015, 458, 369-374.	1.0	15
28	Intra- and intermolecular domain interactions among novel two-component system proteins coded by Rv0600c, Rv0601c and Rv0602c of Mycobacterium tuberculosis. <i>Microbiology (United Kingdom)</i> , 2009, 155, 772-779.	0.7	13
29	Design, synthesis and characterization of dual inhibitors against new targets FabG4 and HtdX of Mycobacterium tuberculosis. <i>European Journal of Medicinal Chemistry</i> , 2015, 100, 223-234.	2.6	13
30	Rice matrix metalloproteinase OsMMP1 plays pleiotropic roles in plant development and symplastic-apoplastic transport by modulating cellulose and callose depositions. <i>Scientific Reports</i> , 2018, 8, 2783.	1.6	13
31	Isolation and mass spectrometry based hydroxyproline mapping of type II collagen derived from Capra hircus ear cartilage. <i>Communications Biology</i> , 2019, 2, 146.	2.0	13
32	Parallel β -sheet assemblage in a model dipeptide: an X-ray diffraction study. <i>Perkin Transactions II RSC</i> , 2002, , 1602-1604.	1.1	11
33	Characterization of two sugar transporters responsible for efficient xylose uptake in an oleaginous yeast <i>Candida tropicalis</i> SY005. <i>Archives of Biochemistry and Biophysics</i> , 2020, 695, 108645.	1.4	11
34	Mycobactin Analogues with Excellent Pharmacokinetic Profile Demonstrate Potent Antitubercular Specific Activity and Exceptional Efflux Pump Inhibition. <i>Journal of Medicinal Chemistry</i> , 2022, 65, 234-256.	2.9	11
35	Identification of α -enolase as a prognostic and diagnostic precancer biomarker in oral submucous fibrosis. <i>Journal of Clinical Pathology</i> , 2018, 71, 228-238.	1.0	10
36	Probing the inhibitory potency of epigallocatechin gallate against human β -crystallin aggregation: Spectroscopic, microscopic and simulation studies. <i>Spectrochimica Acta - Part A: Molecular and Biomolecular Spectroscopy</i> , 2018, 192, 318-327.	2.0	10

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37	Gradient crystallinity and its influence on the poly(vinylidene fluoride)/poly(methyl methacrylate) membrane derived by immersion precipitation method. <i>Journal of Applied Polymer Science</i> , 2020, 137, 48677.	1.3	9
38	Structure-based Epitope Mapping of Mycobacterium tuberculosis Secretary Antigen MTC28. <i>Journal of Biological Chemistry</i> , 2016, 291, 13943-13954.	1.6	8
39	NanoLC MALDI MS/MS based quantitative metabolomics reveals the alteration of membrane biogenesis in oral cancer. <i>RSC Advances</i> , 2016, 6, 62420-62433.	1.7	8
40	Staphylococcal superantigen-like proteins interact with human MAP kinase signaling protein ERK2. <i>FEBS Letters</i> , 2020, 594, 266-277.	1.3	8
41	The $\hat{1}\hat{1}^2$ region is crucial for biofilm enhancement activity of <i>MTC</i> 28 in <i>Mycobacterium smegmatis</i> . <i>FEBS Letters</i> , 2017, 591, 3333-3347.	1.3	7
42	Integrated Multi-omics, Virtual Screening and Molecular Docking Analysis of Methicillin-Resistant <i>Staphylococcus aureus</i> USA300 for the Identification of Potential Therapeutic Targets: An In-Silico Approach. <i>International Journal of Peptide Research and Therapeutics</i> , 2021, 27, 2735-2755.	0.9	7
43	Biochemical Characterization of VapC46 Toxin from <i>Mycobacterium tuberculosis</i> . <i>Molecular Biotechnology</i> , 2020, 62, 335-343.	1.3	6
44	Understanding the Mannose Transfer Mechanism of Mycobacterial Phosphatidyl-myo-inositol Mannosyltransferase A from Molecular Dynamics Simulations. <i>ACS Omega</i> , 2022, 7, 19288-19304.	1.6	6
45	Inhibition of <i>M. tuberculosis</i> $\hat{2}$ -ketoacyl CoA reductase FabG4 (Rv0242c) by triazole linked polyphenol-aminobenzene hybrids: Comparison with the corresponding gallate counterparts. <i>Bioorganic and Medicinal Chemistry Letters</i> , 2015, 25, 1343-1347.	1.0	5
46	Functional insights from molecular modeling, docking, and dynamics study of a cypoviral RNA dependent RNA polymerase. <i>Journal of Molecular Graphics and Modelling</i> , 2015, 61, 160-174.	1.3	5
47	Identification of potential inhibitors against FemX of <i>Staphylococcus aureus</i> : A hierarchical in-silico drug repurposing approach. <i>Journal of Molecular Graphics and Modelling</i> , 2022, 115, 108215.	1.3	5
48	Cloning, expression, crystallization and preliminary X-ray diffraction studies of staphylococcal superantigen-like protein 1 (SSL1). <i>Acta Crystallographica Section F, Structural Biology Communications</i> , 2014, 70, 600-603.	0.4	4
49	Decrypting the oscillating nature of the 4-phosphopantetheine arm in acyl carrier protein AcpM of <i>Mycobacterium tuberculosis</i> . <i>FEBS Letters</i> , 2019, 593, 622-633.	1.3	4
50	Structural characterization of VapB46 antitoxin from <i>Mycobacterium tuberculosis</i> : insights into VapB46 DNA binding. <i>FEBS Journal</i> , 2019, 286, 1174-1190.	2.2	4
51	Molecular Recognition in $\hat{2}$ -Lactams: The Crystal Packing in 4-Sulfonyl $\hat{2}$ -Lactams. <i>Journal of Chemical Research</i> , 2004, 2004, 318-321.	0.6	3
52	Structural elucidation of the NADP(H) phosphatase activity of staphylococcal dual-specific IMPase/NADP(H) phosphatase. <i>Acta Crystallographica Section D: Structural Biology</i> , 2016, 72, 281-290.	1.1	3
53	Disruption of redox catalytic functions of peroxiredoxin-thioredoxin complex in <i>Mycobacterium tuberculosis</i> H37Rv using small interface binding molecules. <i>Computational Biology and Chemistry</i> , 2017, 67, 69-83.	1.1	3
54	Identification and functional characterization of a lipid droplet protein CtLDP1 from an oleaginous yeast <i>Candida tropicalis</i> SY005. <i>Biochimica Et Biophysica Acta - Molecular and Cell Biology of Lipids</i> , 2020, 1865, 158725.	1.2	3

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55	Expression, purification, crystallization and preliminary X-ray diffraction studies of phosphoglycerate mutase from <i>Staphylococcus aureus</i> NCTC8325. <i>Acta Crystallographica Section F, Structural Biology Communications</i> , 2014, 70, 53-56.	0.4	3
56	Characterization of an alcohol acetyltransferase GcAAT responsible for the production of antifungal volatile esters in endophytic <i>Geotrichum candidum</i> PF005. <i>Microbiological Research</i> , 2022, 260, 127021.	2.5	3
57	High-resolution crystal structure of LpqH, an immunomodulatory surface lipoprotein of <i>Mycobacterium tuberculosis</i> reveals a distinct fold and a conserved cleft on its surface. <i>International Journal of Biological Macromolecules</i> , 2022, 210, 494-503.	3.6	3
58	Synthesis and Crystal Structure of 3-[4-Diarylmethyl-1-Oxophthalazin-2(1 <i>H</i>)-Yl]Propanenitriles. <i>Journal of Chemical Research</i> , 2003, 2003, 574-575.	0.6	2
59	Domain swapping between FabGs deciphers the structural determinant for in-solution oligomerization and substrate binding. <i>Biophysical Chemistry</i> , 2018, 237, 9-21.	1.5	2
60	Residues at the interface between zinc binding and winged helix domains of human RECQ1 play a significant role in DNA strand annealing activity. <i>Nucleic Acids Research</i> , 2021, 49, 11834-11854.	6.5	2
61	Fluorescently labelled thioacetazone for detecting the interaction with <i>Mycobacterium</i> dehydratases HadAB and HadBC. <i>Organic and Biomolecular Chemistry</i> , 2022, 20, 1444-1452.	1.5	2
62	The C-terminal end of mycobacterial HadBC regulates AcpM interaction during the FAS II pathway: a structural perspective. <i>FEBS Journal</i> , 2022, 289, 4963-4980.	2.2	2
63	Elucidation of the mechanism of disulfide exchange between staphylococcal thioredoxin2 and thioredoxin reductase2: A structural insight. <i>Biochimie</i> , 2019, 160, 1-13.	1.3	1
64	Mycobacterial crypto-AcpM as a tool to investigate the consequence of drug binding on its key FAS II partner enzyme HadAB. <i>Biochimica Et Biophysica Acta - General Subjects</i> , 2021, 1865, 129964.	1.1	1
65	Molecular insights into RNA-binding properties of <i>Escherichia coli</i> -expressed RNA-dependent RNA polymerase of <i>Antheraea mylitta</i> cytoplasmic polyhedrosis virus. <i>Archives of Virology</i> , 2017, 162, 2727-2736.	0.9	0
66	Label-Free Method Development for Hydroxyproline PTM Mapping in Human Plasma Proteome. <i>Protein Journal</i> , 2021, 40, 741-755.	0.7	0
67	Interaction analysis of TcrX/Y two component system from <i>Mycobacterium tuberculosis</i> . <i>FASEB Journal</i> , 2010, 24, 709.1.	0.2	0
68	Reconstitution of the RNA-dependent RNA polymerase activity of <i>Antheraea mylitta</i> cyovirus in vitro using separately expressed different functional domains of the enzyme. <i>Journal of General Virology</i> , 2016, 97, 1709-1719.	1.3	0
69	<i>Mycobacterium tuberculosis</i> low molecular weight T cell antigen Mtb8.4 has heme-binding and fiber-forming properties. <i>FEBS Letters</i> , 0, , .	1.3	0