

Sougata Ghosh

List of Publications by Year in descending order

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115
papers

2,755
citations

172457

29
h-index

197818

49
g-index

126
all docs

126
docs citations

126
times ranked

3082
citing authors

#	ARTICLE	IF	CITATIONS
1	Synthesis of silver nanoparticles using <i>Dioscorea bulbifera</i> tuber extract and evaluation of its synergistic potential in combination with antimicrobial agents. <i>International Journal of Nanomedicine</i> , 2012, 7, 483.	6.7	288
2	<i>Gnidia glauca</i> flower extract mediated synthesis of gold nanoparticles and evaluation of its chemocatalytic potential. <i>Journal of Nanobiotechnology</i> , 2012, 10, 17.	9.1	174
3	Rapid efficient synthesis and characterization of silver, gold, and bimetallic nanoparticles from the medicinal plant <i>Plumbago zeylanica</i> and their application in biofilm control. <i>International Journal of Nanomedicine</i> , 2014, 9, 2635.	6.7	127
4	Dual Drug Conjugated Nanoparticle for Simultaneous Targeting of Mitochondria and Nucleus in Cancer Cells. <i>ACS Applied Materials & Interfaces</i> , 2015, 7, 7584-7598.	8.0	105
5	Diosgenin from <i>Dioscorea bulbifera</i> : Novel Hit for Treatment of Type II Diabetes Mellitus with Inhibitory Activity against α -Amylase and α -Glucosidase. <i>PLoS ONE</i> , 2014, 9, e106039.	2.5	96
6	Antidiabetic Activity of <i>Gnidia glauca</i> and <i>Dioscorea bulbifera</i> : Potent Amylase and Glucosidase Inhibitors. <i>Evidence-based Complementary and Alternative Medicine</i> , 2012, 2012, 1-10.	1.2	78
7	Diosgenin Functionalized Iron Oxide Nanoparticles as Novel Nanomaterial Against Breast Cancer. <i>Journal of Nanoscience and Nanotechnology</i> , 2015, 15, 9464-9472.	0.9	78
8	<i>Gloriosa superba</i> Mediated Synthesis of Platinum and Palladium Nanoparticles for Induction of Apoptosis in Breast Cancer. <i>Bioinorganic Chemistry and Applications</i> , 2018, 2018, 1-9.	4.1	77
9	Novel platinum–palladium bimetallic nanoparticles synthesized by <i>Dioscorea bulbifera</i> : anticancer and antioxidant activities. <i>International Journal of Nanomedicine</i> , 2015, 10, 7477.	6.7	75
10	Phytochemical Analysis and Free Radical Scavenging Activity of Medicinal Plants <i>Gnidia glauca</i> and <i>Dioscorea bulbifera</i> . <i>PLoS ONE</i> , 2013, 8, e82529.	2.5	70
11	ZnO Nanoparticles-Red Sandalwood Conjugate: A Promising Anti-Diabetic Agent. <i>Journal of Nanoscience and Nanotechnology</i> , 2015, 15, 4046-4051.	0.9	70
12	Bacteriogenic Platinum Nanoparticles for Application in Nanomedicine. <i>Frontiers in Chemistry</i> , 2021, 9, 624344.	3.6	70
13	Synthesis of Gold Nanoanisotrops Using <i>Dioscorea bulbifera</i> Tuber Extract. <i>Journal of Nanomaterials</i> , 2011, 2011, 1-8.	2.7	66
14	Nanomaterials in Wound Healing and Infection Control. <i>Antibiotics</i> , 2021, 10, 473.	3.7	63
15	<i>Dioscorea bulbifera</i> Mediated Synthesis of Novel Au _{core} Ag _{shell} Nanoparticles with Potent Antibiofilm and Antileishmanial Activity. <i>Journal of Nanomaterials</i> , 2015, 2015, 1-12.	2.7	62
16	Surface defect rich ZnO quantum dots as antioxidants inhibiting α -amylase and α -glucosidase: a potential anti-diabetic nanomedicine. <i>Journal of Materials Chemistry B</i> , 2015, 3, 4597-4606.	5.8	57
17	<i>Adiantum philippense</i> L. Frond Assisted Rapid Green Synthesis of Gold and Silver Nanoparticles. <i>Journal of Nanoparticles</i> , 2013, 2013, 1-9.	1.4	56
18	Synthesis, computational study and glycosidase inhibitory activity of polyhydroxylated conidine alkaloidsâ€”a bicyclic iminosugar. <i>Organic and Biomolecular Chemistry</i> , 2010, 8, 3307.	2.8	50

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19	Synthesis, crystal structure and antidiabetic activity of substituted (E)-3-(Benzo [d]thiazol-2-ylamino) phenylprop-2-en-1-one. <i>European Journal of Medicinal Chemistry</i> , 2013, 59, 304-309.	5.5	50
20	Enhanced Sunlight-Driven Photocatalytic and Antibacterial Activities of Flower-Like ZnO@MoS ₂ Nanocomposite. <i>Journal of Nanoparticle Research</i> , 2020, 22, 1.	1.9	46
21	Synthesis of 1,5-Dideoxy-1,5-iminoribitol C-Glycosides through a Nitroene-Olefin Cycloaddition Domino Strategy: Identification of Pharmacological Chaperones of Mutant Human Lysosomal β -Galactosidase. <i>Journal of Organic Chemistry</i> , 2014, 79, 4398-4404.	3.2	45
22	Copper and palladium nanostructures: a bacteriogenic approach. <i>Applied Microbiology and Biotechnology</i> , 2018, 102, 7693-7701.	3.6	45
23	Effect of silver doping on antidiabetic and antioxidant potential of ZnO nanorods. <i>Journal of Trace Elements in Medicine and Biology</i> , 2020, 58, 126448.	3.0	44
24	<i>Gnidia glauca</i> and <i>Plumbago zeylanica</i> -Mediated Synthesis of Novel Copper Nanoparticles as Promising Antidiabetic Agents. <i>Advances in Pharmacological Sciences</i> , 2019, 2019, 1-11.	3.7	41
25	<i>Platanus orientalis</i> Leaf Mediated Rapid Synthesis of Catalytic Gold and Silver Nanoparticles. <i>Journal of Nanomedicine & Nanotechnology</i> , 2018, 09, .	1.1	38
26	Fe ₃ O ₄ -citrate-curcumin: Promising conjugates for superoxide scavenging, tumor suppression and cancer hyperthermia. <i>Journal of Applied Physics</i> , 2012, 111, .	2.5	35
27	<i>Barleria prionitis</i> Leaf Mediated Synthesis of Silver and Gold Nanocatalysts. <i>Journal of Nanomedicine & Nanotechnology</i> , 2016, 7, .	1.1	35
28	Antidiabetic and Antioxidant Properties of Copper Nanoparticles Synthesized by Medicinal Plant <i>Dioscorea bulbifera</i> . <i>Journal of Nanomedicine & Nanotechnology</i> , 0, s6, .	1.1	33
29	<i>Gnidia glauca</i> Leaf and Stem Extract Mediated Synthesis of Gold Nanocatalysts with Free Radical Scavenging Potential. <i>Journal of Nanomedicine & Nanotechnology</i> , 2016, 07, .	1.1	33
30	Synthesis, DNA interaction and anticancer activity of 2-anthryl substituted benzimidazole derivatives. <i>New Journal of Chemistry</i> , 2015, 39, 4882-4890.	2.8	31
31	Antimicrobial Synergy of Silver-Platinum Nanohybrids With Antibiotics. <i>Frontiers in Microbiology</i> , 2020, 11, 610968.	3.5	31
32	A Simple, Efficient Synthesis of 2-Aryl Benzimidazoles Using Silica Supported Periodic Acid Catalyst and Evaluation of Anticancer Activity. <i>ISRN Organic Chemistry</i> , 2013, 2013, 1-7.	1.0	29
33	<>Curcumin</>-Loaded, Self-Assembled <>Aloeverta</> Template for Superior Antioxidant Activity and Trans-Membrane Drug Release. <i>Journal of Nanoscience and Nanotechnology</i> , 2015, 15, 4039-4045.	0.9	29
34	Mesoporous Silica Based Nanostructures for Bone Tissue Regeneration. <i>Frontiers in Materials</i> , 2021, 8, .	2.4	28
35	Nanobiotechnological prospects of probiotic microflora: Synthesis, mechanism, and applications. <i>Science of the Total Environment</i> , 2022, 838, 156212.	8.0	27
36	Phytochemistry and Therapeutic Potential of Medicinal Plant: <i>Dioscorea bulbifera</i> . , 2015, 5, .		25

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37	Development, dynamics and control of antimicrobial-resistant bacterial biofilms: a review. <i>Environmental Chemistry Letters</i> , 2021, 19, 1983-1993.	16.2	25
38	Functionalized Chitosan Nanomaterials: A Jammer for Quorum Sensing. <i>Polymers</i> , 2021, 13, 2533.	4.5	22
39	Design and synthesis of harzialactone analogues: Promising anticancer agents. <i>Bioorganic and Medicinal Chemistry Letters</i> , 2010, 20, 7243-7245.	2.2	21
40	Inhibition of biofilm formation and quorum sensing mediated virulence in <i>Pseudomonas aeruginosa</i> by marine sponge symbiont <i>Brevibacterium casei</i> strain Alu 1. <i>Microbial Pathogenesis</i> , 2021, 150, 104693.	2.9	20
41	Metallic Nanoscaffolds as Osteogenic Promoters: Advances, Challenges and Scope. <i>Metals</i> , 2021, 11, 1356.	2.3	19
42	Synthesis and glycosidase inhibitory activity of novel (2-phenyl-4H-benzopyrimido[2,1-b]-thiazol-4-ylidene)acetonitrile derivatives. <i>Bioorganic and Medicinal Chemistry Letters</i> , 2012, 22, 7011-7014.	2.2	18
43	Metallic biomaterial for bone support and replacement. , 2018, , 139-165.		18
44	Photosynthetic microbes in nanobiotechnology: Applications and perspectives. <i>Science of the Total Environment</i> , 2022, 841, 156457.	8.0	18
45	Synthesis of an Adenine Nucleoside Containing the (8 <i>â€²</i> R</i>) Epimeric Carbohydrate Core of Amipurimycin and Its Biological Study. <i>Journal of Organic Chemistry</i> , 2011, 76, 2892-2895.	3.2	16
46	Diazaspiro-iminosugars and polyhydroxylated spiro-bisactams: synthesis, glycosidase inhibition and molecular docking studies. <i>RSC Advances</i> , 2015, 5, 52907-52915.	3.6	16
47	Mesoporous Silica-Based Nano Drug-Delivery System Synthesis, Characterization, and Applications. , 2019, , 285-317.		16
48	Dye degradation and antimicrobial applications of manganese ferrite nanoparticles synthesized by plant extracts. <i>Chemical Physics Impact</i> , 2022, 5, 100098.	3.5	16
49	Polyhydroxylated azetidine iminosugars: Synthesis, glycosidase inhibitory activity and molecular docking studies. <i>Bioorganic and Medicinal Chemistry Letters</i> , 2017, 27, 5291-5295.	2.2	15
50	<i>Dioscorea oppositifolia</i> Mediated Synthesis of Gold and Silver Nanoparticles with Catalytic Activity. <i>Journal of Nanomedicine & Nanotechnology</i> , 2016, 07, .	1.1	13
51	<i>Gloriosa superba</i> Mediated Synthesis of Silver and Gold Nanoparticles for Anticancer Applications. <i>Journal of Nanomedicine & Nanotechnology</i> , 2016, 7, .	1.1	12
52	Î³-Hydroxyethyl piperidine iminosugar and N-alkylated derivatives: A study of their activity as glycosidase inhibitors and as immunosuppressive agents. <i>Bioorganic and Medicinal Chemistry</i> , 2014, 22, 5776-5782.	3.0	11
53	Novel Anticancer Platinum and Palladium Nanoparticles from <i>Barleria prionitis</i> . <i>Global Journal of Nanomedicine</i> , 2017, 2, .	0.1	10
54	Synthesis of anomeric 1,5-anhydrosugars as conformationally locked selective Î±-mannosidase inhibitors. <i>Bioorganic and Medicinal Chemistry</i> , 2011, 19, 6720-6725.	3.0	9

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55	Nanomaterials as Enhanced Antimicrobial Agent/Activity-Enhancer for Transdermal Applications: A Review. , 2017, , 279-321.		9
56	Hybrid Nanostructures for In Vivo Imaging. , 2019, , 173-208.		8
57	Endophytic Microbiomes and Their Plant Growth-Promoting Attributes for Plant Health. Environmental and Microbial Biotechnology, 2021, , 245-278.	0.7	8
58	Physically responsive nanostructures in breast cancer theranostics. , 0, , 2-1-2-24.		7
59	Evaluation of malonic acid diamide analogues as radical scavenging agents. New Journal of Chemistry, 2015, 39, 1267-1273.	2.8	6
60	Nanoparticle-impregnated biopolymers as novel antimicrobial nanofilms. , 2021, , 269-309.		6
61	Microbial biosorbents for heavy metal removal. , 2021, , 213-262.		6
62	Biofilm Producing Enterococcus Isolates from Vaginal Microbiota. Antibiotics, 2021, 10, 1082.	3.7	6
63	Bioremediationâ€”the natural solution. , 2021, , 11-40.		5
64	Heavy Metal Removal by Bacillus for Sustainable Agriculture. Bacilli in Climate Resilient Agriculture and Bioprospecting, 2022, , 1-30.	1.2	5
65	Nanotechnology for water processing. , 2021, , 335-360.		4
66	Arsenic Removal Using Nanotechnology. , 2021, , 73-102.		4
67	Biologically synthesized nanoparticles for dye removal. , 2022, , 573-604.		4
68	Control of Bacterial Biofilms for Mitigating Antimicrobial Resistance. Sustainable Agriculture Reviews, 2020, , 147-176.	1.1	4
69	Can EDTA Change MRSA into MSSA? A Future Prospective!. Journal of Clinical and Diagnostic Research JCDR, 2016, 10, DC22-5.	0.8	4
70	Microbial remediation of metals by marine bacteria. , 2022, , 131-158.		4
71	Recent trends in fungal biosynthesis of nanoparticles. , 2021, , 403-452.		3
72	Functionalized biogenic nanoparticles and their applications. , 2021, , 303-322.		3

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73	Removal of heavy metals by microbial communities. , 2021, , 537-566.		3
74	Editorial: Nanomicrobiology: Emerging Trends in Microbial Synthesis of Nanomaterials and Their Applications. <i>Frontiers in Microbiology</i> , 2021, 12, 751693.	3.5	3
75	Collagen Based 3D Printed Scaffolds for Tissue Engineering. , 0, , .		3
76	Cyanobacteria mediated toxic metal removal as complementary and alternative wastewater treatment strategy. , 2022, , 533-548.		3
77	Nanoherbicides for field applications. , 2022, , 439-463.		3
78	Commentary on Therapeutic Potential of <i>Gnidia glauca</i> : A Novel Medicinal Plant. , 2015, , .		2
79	Viruses and nanotechnology. , 2021, , 133-143.		2
80	Bioprospecting of novel algal species with nanobiotechnology. , 2022, , 41-74.		2
81	Mycogenic synthesis of metallic nanostructures and their use in dye degradation. , 2021, , 509-526.		2
82	0.5ÅV Two-Stage Subthreshold Fully Differential Miller Compensated OTA Using Voltage Combiners. <i>Lecture Notes in Electrical Engineering</i> , 2020, , 463-479.	0.4	2
83	Medicinal Prospects of Marine Flora and Fauna for Drug Discovery. , 2020, , 321-345.		2
84	Microbially synthesized nanoparticles: aspect in plant disease management. , 2022, , 303-325.		2
85	Exosome-associated hostâ€“pathogen interaction: a potential effect of biofilm formation. <i>Journal of Analytical Science and Technology</i> , 2021, 12, .	2.1	2
86	Arsenic removing prokaryotes as potential biofilters. , 2022, , 65-86.		2
87	Synergistic Bacteriostatic Effect of Streptomycin-Coated Nanomagnetic Functional Oxides. <i>BioNanoScience</i> , 2022, 12, 62-73.	3.5	2
88	Emerging dye contaminants of industrial origin and their enzyme-assisted biodegradation. , 2022, , 79-102.		2
89	Regulatory affairs, commercialization, and economic aspects of nanomaterials used for agriculture. , 2022, , 479-502.		2
90	Plant growth promoting bacteria as biocontrol agents against diseases of cereal crops. , 2021, , 221-239.		1

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91	Sustainable agricultural practices using microbial strains for crop production. , 2021, , 357-370.		1
92	Patents, technology transfer, and commercialization aspects of biogenic nanoparticles. , 2021, , 323-339.		1
93	Nanobiotechnology of the plant microbiome. , 2021, , 349-367.		1
94	Editorial: Microbial Fabrication of Nanomaterials and Their Applications. <i>Frontiers in Chemistry</i> , 2021, 9, 739739.	3.6	1
95	High photocatalytic activity under visible light for dye degradation. , 2021, , 141-166.		1
96	Application of doped semiconductors in the degradation of dyes. , 2021, , 631-646.		1
97	Nanopharmacokinetics: key role in in vivo imaging. , 2021, , 233-251.		1
98	Sapindus mukorossi as Novel Niche for Detergent Degrading Bacteria. <i>SSRN Electronic Journal</i> , 0, , .	0.4	1
99	Nanobiomaterials for three-dimensional bioprinting. , 2022, , 1-24.		1
100	Electroactive biofilm and electron transfer in MES. , 2022, , 87-101.		1
101	Nanotechnological advances for oil spill management: removal, recovery and remediation. , 2022, , 175-194.		1
102	Nanomaterials for sensors: Synthesis and applications. , 2022, , 477-492.		1
103	Fungi in Pharmaceuticals and Production of Antibiotics. <i>Fungal Biology</i> , 2022, , 233-257.	0.6	1
104	Microbial consortium and crop improvement: Advantages and limitations. , 2022, , 109-123.		1
105	Microbial Removal of Toxic Chromium for Wastewater Treatment. , 2021, , 185-204.		0
106	A COMPARATIVE STUDY ON DIFFERENT PHENOTYPIC METHODS FOR DETECTION OF METALLO BETA LACTAMASE PRODUCING BACTERIA IN A TERTIARY HOSPITAL OF EASTERN INDIA. <i>Journal of Evolution of Medical and Dental Sciences</i> , 2014, 3, 12602-12611.	0.1	0
107	Au-core Ag-shell nanoparticles with potent antibiofilm activity as novel nanomedicine. , 2016, , .		0
108	Impact of climate change on microbial endophytes: novel nanoscale cell factories. , 2022, , 161-185.		0

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109	Molecular Approaches for Removal of Toxic Metal by Genetically Modified Microbes. , 2022, , 47-60.		0
110	Metal stress removal and nanotechnology-driven solutions. , 2022, , 129-153.		0
111	Role of engineered nanomaterials in sustainable agriculture and crop production. , 2022, , 371-387.		0
112	Crop-mediated synthesis of nanoparticles and their applications. , 2022, , 23-54.		0
113	Nanoparticles for effective management of salinity stress in plants. , 2022, , 189-216.		0
114	Autotrophic nitrification in bacteria. , 2022, , 41-60.		0
115	Microbial chromium removal as sustainable water treatment strategy. , 2022, , 419-444.		0