

# Sougata Ghosh

## List of Publications by Year in descending order

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Version: 2024-02-01

115  
papers

2,755  
citations

196777

29  
h-index

223390

49  
g-index

126  
all docs

126  
docs citations

126  
times ranked

3451  
citing authors

#	ARTICLE	IF	CITATIONS
1	Bioprospecting of novel algal species with nanobiotechnology. , 2022, , 41-74.		2
2	Biologically synthesized nanoparticles for dye removal. , 2022, , 573-604.		4
3	Microbially synthesized nanoparticles: aspect in plant disease management. , 2022, , 303-325.		2
4	Arsenic removing prokaryotes as potential biofilters. , 2022, , 65-86.		2
5	Impact of climate change on microbial endophytes: novel nanoscale cell factories. , 2022, , 161-185.		0
6	Nanobiomaterials for three-dimensional bioprinting. , 2022, , 1-24.		1
7	Molecular Approaches for Removal of Toxic Metal by Genetically Modified Microbes. , 2022, , 47-60.		0
8	Electroactive biofilm and electron transfer in MES. , 2022, , 87-101.		1
9	Heavy Metal Removal by Bacillus for Sustainable Agriculture. Bacilli in Climate Resilient Agriculture and Bioprospecting, 2022, , 1-30.	0.6	5
10	Nanotechnological advances for oil spill management: removal, recovery and remediation. , 2022, , 175-194.		1
11	Microbial remediation of metals by marine bacteria. , 2022, , 131-158.		4
12	Nanomaterials for sensors: Synthesis and applications. , 2022, , 477-492.		1
13	Synergistic Bacteriostatic Effect of Streptomycin-Coated Nanomagnetic Functional Oxides. BioNanoScience, 2022, 12, 62-73.	1.5	2
14	Cyanobacteria mediated toxic metal removal as complementary and alternative wastewater treatment strategy. , 2022, , 533-548.		3
15	Metal stress removal and nanotechnology-driven solutions. , 2022, , 129-153.		0
16	Emerging dye contaminants of industrial origin and their enzyme-assisted biodegradation. , 2022, , 79-102.		2
17	Regulatory affairs, commercialization, and economic aspects of nanomaterials used for agriculture. , 2022, , 479-502.		2
18	Nanoherbicides for field applications. , 2022, , 439-463.		3

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19	Role of engineered nanomaterials in sustainable agriculture and crop production. , 2022, , 371-387.		0
20	Crop-mediated synthesis of nanoparticles and their applications. , 2022, , 23-54.		0
21	Fungi in Pharmaceuticals and Production of Antibiotics. Fungal Biology, 2022, , 233-257.	0.3	1
22	Nanoparticles for effective management of salinity stress in plants. , 2022, , 189-216.		0
23	Autotrophic nitrification in bacteria. , 2022, , 41-60.		0
24	Microbial consortium and crop improvement: Advantages and limitations. , 2022, , 109-123.		1
25	Nanobiotechnological prospects of probiotic microflora: Synthesis, mechanism, and applications. Science of the Total Environment, 2022, 838, 156212.	3.9	27
26	Photosynthetic microbes in nanobiotechnology: Applications and perspectives. Science of the Total Environment, 2022, 841, 156457.	3.9	18
27	Microbial chromium removal as sustainable water treatment strategy. , 2022, , 419-444.		0
28	Dye degradation and antimicrobial applications of manganese ferrite nanoparticles synthesized by plant extracts. Chemical Physics Impact, 2022, 5, 100098.	1.7	16
29	Bioremediationâ€”the natural solution. , 2021, , 11-40.		5
30	Plant growth promoting bacteria as biocontrol agents against diseases of cereal crops. , 2021, , 221-239.		1
31	Sustainable agricultural practices using microbial strains for crop production. , 2021, , 357-370.		1
32	Nanotechnology for water processing. , 2021, , 335-360.		4
33	Nanoparticle-impregnated biopolymers as novel antimicrobial nanofilms. , 2021, , 269-309.		6
34	Viruses and nanotechnology. , 2021, , 133-143.		2
35	Patents, technology transfer, and commercialization aspects of biogenic nanoparticles. , 2021, , 323-339.		1
36	Recent trends in fungal biosynthesis of nanoparticles. , 2021, , 403-452.		3

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37	Microbial biosorbents for heavy metal removal. , 2021, , 213-262.		6
38	Arsenic Removal Using Nanotechnology. , 2021, , 73-102.		4
39	Nanobiotechnology of the plant microbiome. , 2021, , 349-367.		1
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.	1.3	20
41	Bacteriogenic Platinum Nanoparticles for Application in Nanomedicine. <i>Frontiers in Chemistry</i> , 2021, 9, 624344.	1.8	70
42	Nanomaterials in Wound Healing and Infection Control. <i>Antibiotics</i> , 2021, 10, 473.	1.5	63
43	Mesoporous Silica Based Nanostructures for Bone Tissue Regeneration. <i>Frontiers in Materials</i> , 2021, 8, .	1.2	28
44	Functionalized Chitosan Nanomaterials: A Jammer for Quorum Sensing. <i>Polymers</i> , 2021, 13, 2533.	2.0	22
45	Editorial: Microbial Fabrication of Nanomaterials and Their Applications. <i>Frontiers in Chemistry</i> , 2021, 9, 739739.	1.8	1
46	Metallic Nanoscaffolds as Osteogenic Promoters: Advances, Challenges and Scope. <i>Metals</i> , 2021, 11, 1356.	1.0	19
47	Microbial Removal of Toxic Chromium for Wastewater Treatment. , 2021, , 185-204.		0
48	Biofilm Producing <i>Enterococcus</i> Isolates from Vaginal Microbiota. <i>Antibiotics</i> , 2021, 10, 1082.	1.5	6
49	Functionalized biogenic nanoparticles and their applications. , 2021, , 303-322.		3
50	Removal of heavy metals by microbial communities. , 2021, , 537-566.		3
51	High photocatalytic activity under visible light for dye degradation. , 2021, , 141-166.		1
52	Application of doped semiconductors in the degradation of dyes. , 2021, , 631-646.		1
53	Development, dynamics and control of antimicrobial-resistant bacterial biofilms: a review. <i>Environmental Chemistry Letters</i> , 2021, 19, 1983-1993.	8.3	25
54	Nanopharmacokinetics: key role in in vivo imaging. , 2021, , 233-251.		1

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55	Mycogenic synthesis of metallic nanostructures and their use in dye degradation. , 2021, , 509-526.		2
56	Endophytic Microbiomes and Their Plant Growth-Promoting Attributes for Plant Health. Environmental and Microbial Biotechnology, 2021, , 245-278.	0.4	8
57	Editorial: Nanomicrobiology: Emerging Trends in Microbial Synthesis of Nanomaterials and Their Applications. Frontiers in Microbiology, 2021, 12, 751693.	1.5	3
58	Exosome-associated hostâ€“pathogen interaction: a potential effect of biofilm formation. Journal of Analytical Science and Technology, 2021, 12, .	1.0	2
59	Effect of silver doping on antidiabetic and antioxidant potential of ZnO nanorods. Journal of Trace Elements in Medicine and Biology, 2020, 58, 126448.	1.5	44
60	Enhanced Sunlight-Driven Photocatalytic and Antibacterial Activities of Flower-Like ZnO@MoS2 Nanocomposite. Journal of Nanoparticle Research, 2020, 22, 1.	0.8	46
61	Antimicrobial Synergy of Silver-Platinum Nanohybrids With Antibiotics. Frontiers in Microbiology, 2020, 11, 610968.	1.5	31
62	Control of Bacterial Biofilms for Mitigating Antimicrobial Resistance. Sustainable Agriculture Reviews, 2020, , 147-176.	0.6	4
63	0.5ÂV Two-Stage Subthreshold Fully Differential Miller Compensated OTA Using Voltage Combiners. Lecture Notes in Electrical Engineering, 2020, , 463-479.	0.3	2
64	Medicinal Prospects of Marine Flora and Fauna for Drug Discovery. , 2020, , 321-345.		2
65	<i>Gnidia glauca</i>- and <i>Plumbago zeylanica</i>-Mediated Synthesis of Novel Copper Nanoparticles as Promising Antidiabetic Agents. Advances in Pharmacological Sciences, 2019, 2019, 1-11.	3.7	41
66	Mesoporous Silica-Based Nano Drug-Delivery System Synthesis, Characterization, and Applications. , 2019, , 285-317.		16
67	Hybrid Nanostructures for In Vivo Imaging. , 2019, , 173-208.		8
68	Platanus orientalis Leaf Mediated Rapid Synthesis of Catalytic Gold and Silver Nanoparticles. Journal of Nanomedicine & Nanotechnology, 2018, 09, .	1.1	38
69	<i>Gloriosa superba</i> Mediated Synthesis of Platinum and Palladium Nanoparticles for Induction of Apoptosis in Breast Cancer. Bioinorganic Chemistry and Applications, 2018, 2018, 1-9.	1.8	77
70	Metallic biomaterial for bone support and replacement. , 2018, , 139-165.		18
71	Copper and palladium nanostructures: a bacteriogenic approach. Applied Microbiology and Biotechnology, 2018, 102, 7693-7701.	1.7	45
72	Polyhydroxylated azetidine iminosugars: Synthesis, glycosidase inhibitory activity and molecular docking studies. Bioorganic and Medicinal Chemistry Letters, 2017, 27, 5291-5295.	1.0	15

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73	Nanomaterials as Enhanced Antimicrobial Agent/Activity-Enhancer for Transdermal Applications: A Review. , 2017, , 279-321.		9
74	Novel Anticancer Platinum and Palladium Nanoparticles from Barleria prionitis. Global Journal of Nanomedicine, 2017, 2, .	0.1	10
75	Barleria prionitis Leaf Mediated Synthesis of Silver and Gold Nanocatalysts. Journal of Nanomedicine & Nanotechnology, 2016, 7, .	1.1	35
76	Gnidia glauca Leaf and Stem Extract Mediated Synthesis of Gold Nanocatalysts with Free Radical Scavenging Potential. Journal of Nanomedicine & Nanotechnology, 2016, 07, .	1.1	33
77	Gloriosa superba Mediated Synthesis of Silver and Gold Nanoparticles for Anticancer Applications. Journal of Nanomedicine & Nanotechnology, 2016, 7, .	1.1	12
78	Dioscorea oppositifolia Mediated Synthesis of Gold and Silver Nanoparticles with Catalytic Activity. Journal of Nanomedicine & Nanotechnology, 2016, 07, .	1.1	13
79	Can EDTA Change MRSA into MSSA? A Future Prospective!. Journal of Clinical and Diagnostic Research JCDR, 2016, 10, DC22-5.	0.8	4
80	Au@Ag shell nanoparticles with potent antibiofilm activity as novel nanomedicine. , 2016, , .		0
81	Phytochemistry and Therapeutic Potential of Medicinal Plant: Dioscorea bulbifera. , 2015, 5, .		25
82	Commentary on Therapeutic Potential of Gnidia glauca: A Novel Medicinal Plant. , 2015, , .		2
83	Novel platinum&ndash;palladium bimetallic nanoparticles synthesized by Dioscorea bulbifera: anticancer and antioxidant activities. International Journal of Nanomedicine, 2015, 10, 7477.	3.3	75
84	<i>Dioscorea bulbifera</i> Mediated Synthesis of Novel Au<sub>core</sub>Ag<sub>shell</sub> Nanoparticles with Potent Antibiofilm and Antileishmanial Activity. Journal of Nanomaterials, 2015, 2015, 1-12.	1.5	62
85	Surface defect rich ZnO quantum dots as antioxidants inhibiting $\alpha$ -amylase and $\alpha$ -glucosidase: a potential anti-diabetic nanomedicine. Journal of Materials Chemistry B, 2015, 3, 4597-4606.	2.9	57
86	&lt;&gt;Curcumin&lt;/&gt;-Loaded, Self-Assembled &lt;&gt;Aloevera&lt;/&gt; Template for Superior Antioxidant Activity and Trans-Membrane Drug Release. Journal of Nanoscience and Nanotechnology, 2015, 15, 4039-4045.	0.9	29
87	Diosgenin Functionalized Iron Oxide Nanoparticles as Novel Nanomaterial Against Breast Cancer. Journal of Nanoscience and Nanotechnology, 2015, 15, 9464-9472.	0.9	78
88	Diazaspiro-iminosugars and polyhydroxylated spiro-bis lactams: synthesis, glycosidase inhibition and molecular docking studies. RSC Advances, 2015, 5, 52907-52915.	1.7	16
89	ZnO Nanoparticles-Red Sandalwood Conjugate: A Promising Anti-Diabetic Agent. Journal of Nanoscience and Nanotechnology, 2015, 15, 4046-4051.	0.9	70
90	Dual Drug Conjugated Nanoparticle for Simultaneous Targeting of Mitochondria and Nucleus in Cancer Cells. ACS Applied Materials & Interfaces, 2015, 7, 7584-7598.	4.0	105

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91	Synthesis, DNA interaction and anticancer activity of 2-anthryl substituted benzimidazole derivatives. <i>New Journal of Chemistry</i> , 2015, 39, 4882-4890.	1.4	31
92	Evaluation of malonic acid diamide analogues as radical scavenging agents. <i>New Journal of Chemistry</i> , 2015, 39, 1267-1273.	1.4	6
93	Diosgenin from <i>Dioscorea bulbifera</i> : Novel Hit for Treatment of Type II Diabetes Mellitus with Inhibitory Activity against $\alpha$ -Amylase and $\alpha$ -Glucosidase. <i>PLoS ONE</i> , 2014, 9, e106039.	1.1	96
94	$\beta$ -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.	1.4	11
95	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 $\beta$ -Galactosidase. <i>Journal of Organic Chemistry</i> , 2014, 79, 4398-4404.	1.7	45
96	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.	3.3	127
97	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
98	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.	2.6	50
99	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
100	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.	1.1	70
101	<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
102	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.	0.5	78
103	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.	1.0	18
104	<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.	4.2	174
105	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.	3.3	288
106	Fe <sub>3</sub> O <sub>4</sub> -citrate-curcumin: Promising conjugates for superoxide scavenging, tumor suppression and cancer hyperthermia. <i>Journal of Applied Physics</i> , 2012, 111, .	1.1	35
107	Synthesis of an Adenine Nucleoside Containing the (8R) Epimeric Carbohydrate Core of Amipurimycin and Its Biological Study. <i>Journal of Organic Chemistry</i> , 2011, 76, 2892-2895.	1.7	16
108	Synthesis of anomeric 1,5-anhydrosugars as conformationally locked selective $\alpha$ -mannosidase inhibitors. <i>Bioorganic and Medicinal Chemistry</i> , 2011, 19, 6720-6725.	1.4	9

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109	Synthesis of Gold Nanoanisotrops Using <i>Dioscorea bulbifera</i> Tuber Extract. Journal of Nanomaterials, 2011, 2011, 1-8.	1.5	66
110	Design and synthesis of harzialactone analogues: Promising anticancer agents. Bioorganic and Medicinal Chemistry Letters, 2010, 20, 7243-7245.	1.0	21
111	Synthesis, computational study and glycosidase inhibitory activity of polyhydroxylated conidine alkaloids—a bicyclic iminosugar. Organic and Biomolecular Chemistry, 2010, 8, 3307.	1.5	50
112	Antidiabetic and Antioxidant Properties of Copper Nanoparticles Synthesized by Medicinal Plant <i>Dioscorea bulbifera</i> . Journal of Nanomedicine & Nanotechnology, 0, s6, .	1.1	33
113	Physically responsive nanostructures in breast cancer theranostics. , 0, , 2-1-2-24.		7
114	Sapindus mukorossi as Novel Niche for Detergent Degrading Bacteria. SSRN Electronic Journal, 0, , .	0.4	1
115	Collagen Based 3D Printed Scaffolds for Tissue Engineering. , 0, , .		3