

# Siddhartha Sankar Ghosh

## List of Publications by Year in descending order

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69  
papers

1,080  
citations

430874

18  
h-index

454955

30  
g-index

69  
all docs

69  
docs citations

69  
times ranked

1620  
citing authors

#	ARTICLE	IF	CITATIONS
1	Gold Nanocluster Embedded Albumin Nanoparticles for Two-Photon Imaging of Cancer Cells Accompanying Drug Delivery. <i>Small</i> , 2015, 11, 4075-4081.	10.0	132
2	Adenoviral Vectors: A Promising Tool for Gene Therapy. <i>Applied Biochemistry and Biotechnology</i> , 2006, 133, 9-30.	2.9	99
3	Synthesis, characterization and enhanced bactericidal action of a chitosan supported core-shell copper-silver nanoparticle composite. <i>RSC Advances</i> , 2015, 5, 12268-12276.	3.6	58
4	Investigating Fluorescence Quenching of ZnS Quantum Dots by Silver Nanoparticles. <i>Plasmonics</i> , 2011, 6, 125-132.	3.4	56
5	Magnetic Field Guided Chemotaxis of iMushbots for Targeted Anticancer Therapeutics. <i>ACS Biomaterials Science and Engineering</i> , 2017, 3, 1627-1640.	5.2	46
6	Cationic BSA Templated Au-Ag Bimetallic Nanoclusters As a Theranostic Gene Delivery Vector for HeLa Cancer Cells. <i>ACS Biomaterials Science and Engineering</i> , 2016, 2, 2090-2098.	5.2	38
7	Copper Nanocluster-Doped Luminescent Hydroxyapatite Nanoparticles for Antibacterial and Antibiofilm Applications. <i>ACS Omega</i> , 2019, 4, 4697-4706.	3.5	37
8	Transmembrane TNF-Expressed Macrophage Membrane-Coated Chitosan Nanoparticles as Cancer Therapeutics. <i>ACS Omega</i> , 2020, 5, 1572-1580.	3.5	37
9	Silver Nanocluster Embedded Composite Nanoparticles for Targeted Prodrug Delivery in Cancer Theranostics. <i>ACS Biomaterials Science and Engineering</i> , 2016, 2, 1395-1402.	5.2	33
10	Transferrin-Conjugated Red Blood Cell Membrane-Coated Poly(lactic-co-glycolic acid) Nanoparticles for the Delivery of Doxorubicin and Methylene Blue. <i>ACS Applied Nano Materials</i> , 2020, 3, 3807-3819.	5.0	27
11	Connexin-43 enhances tumor suppressing activity of artesunate via gap junction-dependent as well as independent pathways in human breast cancer cells. <i>Scientific Reports</i> , 2017, 7, 7580.	3.3	26
12	Phenylboronic Acid Templated Gold Nanoclusters for Mucin Detection Using a Smartphone-Based Device and Targeted Cancer Cell Theranostics. <i>ACS Applied Materials &amp; Interfaces</i> , 2018, 10, 3210-3218.	8.0	26
13	Targeting Wnt Canonical Signaling by Recombinant sFRP1 Bound Luminescent Au-Nanocluster Embedded Nanoparticles in Cancer Theranostics. <i>ACS Biomaterials Science and Engineering</i> , 2015, 1, 1256-1266.	5.2	25
14	Red Blood Cell-Membrane-Coated Poly(Lactic-co-glycolic Acid) Nanoparticles for Enhanced Chemo- and Hypoxia-Activated Therapy. <i>ACS Applied Bio Materials</i> , 2019, 2, 4077-4086.	4.6	24
15	An oxidative cross-coupling reaction of 4-hydroxydithiocoumarin and amines/thiols using a combination of I <sub>2</sub> and TBHP: access to lead molecules for biomedical applications. <i>Chemical Communications</i> , 2018, 54, 1513-1516.	4.1	23
16	A facile synthesis of nontoxic luminescent carbon dots for detection of chromium and iron in real water sample and bio-imaging. <i>Canadian Journal of Chemical Engineering</i> , 2020, 98, 194-204.	1.7	23
17	Tweaking EMT and MDR dynamics to constrain triple-negative breast cancer invasiveness by EGFR and Wnt/ $\beta$ -catenin signaling regulation. <i>Cellular Oncology (Dordrecht)</i> , 2021, 44, 405-422.	4.4	22
18	Connexin and gap junctions: perspectives from biology to nanotechnology based therapeutics. <i>Translational Research</i> , 2021, 235, 144-167.	5.0	19

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19	Copper(I)-Mediated Cascade Annulation via Dual C-H/C-H Activation: Access to Benzo[ <i>a</i> ]carbazolic AEEgens. <i>Journal of Organic Chemistry</i> , 2021, 86, 16948-16964.	3.2	18
20	Amelioration of Cancer Stem Cells in Macrophage Colony Stimulating Factor-Expressing U87MG-Human Glioblastoma upon 5-Fluorouracil Therapy. <i>PLoS ONE</i> , 2013, 8, e83877.	2.5	17
21	Logic: Hierarchical Logic Structures Based on Responsive Fluorescent Gold Nanoclusters (Small) Tj ETQq1 1 0.784314 rgBT /Overlock 10.0 16		
22	Redesigned <i>Escherichia coli</i> cytosine deaminase: a new facet of suicide gene therapy. <i>Journal of Gene Medicine</i> , 2015, 17, 132-139.	2.8	14
23	Antagonizing canonical Wnt signaling pathway by recombinant human sFRP4 purified from <i>E. coli</i> and its implications in cancer therapy. <i>Molecular and Cellular Biochemistry</i> , 2016, 418, 119-135.	3.1	14
24	In Situ Synthesis of Luminescent Au Nanoclusters on a Bacterial Template for Rapid Detection, Quantification, and Distinction of Kanamycin-Resistant Bacteria. <i>ACS Omega</i> , 2018, 3, 6113-6119.	3.5	14
25	Hydrogel nanocarrier encapsulated recombinant $\beta$ as a novel anticancer protein therapeutics. <i>RSC Advances</i> , 2013, 3, 14123.	3.6	12
26	Recombinant sFRP4 bound chitosan- $\alpha$ -alginate composite nanoparticles embedded with silver nanoclusters for Wnt/ $\beta$ -catenin targeting in cancer theranostics. <i>RSC Advances</i> , 2016, 6, 85763-85772.	3.6	12
27	Polyethylene Glycol-Encapsulated Histone Deacetylase Inhibitor Drug-Composite Nanoparticles for Combination Therapy with Artesunate. <i>ACS Omega</i> , 2018, 3, 11504-11516.	3.5	12
28	Deciphering Hydrodynamic and Drug-Resistant Behaviors of Metastatic EMT Breast Cancer Cells Moving in a Constricted Microcapillary. <i>Journal of Clinical Medicine</i> , 2019, 8, 1194.	2.4	11
29	Recombinant human granulocyte macrophage colony stimulating factor (hGM-CSF): Possibility of nanoparticle-mediated delivery in cancer immunotherapy. <i>Bioengineered</i> , 2017, 8, 120-123.	3.2	10
30	Nanoparticle mediated alteration of EMT dynamics: an approach to modulate cancer therapeutics. <i>Materials Advances</i> , 2020, 1, 2614-2630.	5.4	10
31	Acoustic Propulsion of Vitamin C Loaded Teabots for Targeted Oxidative Stress and Amyloid Therapeutics. <i>ACS Applied Bio Materials</i> , 2019, 2, 4571-4582.	4.6	9
32	Newly synthesized 3-sulfenylindole derivatives from 4-hydroxydithiocoumarin using an oxidative cross dehydrogenative coupling reaction (OCD CR): potential lead molecules for antiproliferative activity. <i>Organic and Biomolecular Chemistry</i> , 2020, 18, 4104-4113.	2.8	9
33	Multi-targeted Drug Repurposing Approach for Breast Cancer via Integrated Functional Network Analysis. <i>Molecular Informatics</i> , 2022, 41, .	2.5	9
34	Multi-facet implications of PEGylated lysozyme stabilized silver nanoclusters loaded recombinant PTEN cargo in cancer theranostics. <i>Biotechnology and Bioengineering</i> , 2018, 115, 1116-1127.	3.3	8
35	Combination Therapy with MAPK-Pathway-Specific Inhibitor and Folic-Acid-Receptor-Targeted Selenium Nanoparticles Induces Synergistic Antiproliferative Response in BRAF Mutant Cancer Cells. <i>ACS Biomaterials Science and Engineering</i> , 2019, 5, 2222-2234.	5.2	8
36	Transferrin Coated $\beta$ -penicillamine- $\alpha$ -Au-Cu Nanocluster PLGA Nanocomposite Reverses Hypoxia-Induced EMT and MDR of Triple-Negative Breast Cancers. <i>ACS Applied Bio Materials</i> , 2021, 4, 5033-5048.	4.6	8

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37	Molecular Characterization and Expression of a Novel Alcohol Oxidase from <i>Aspergillus terreus</i> MTCC6324. <i>PLoS ONE</i> , 2014, 9, e95368.	2.5	8
38	Functional characterizations of interactive recombinant PTEN-silica nanoparticles for potential biomedical applications. <i>RSC Advances</i> , 2016, 6, 114944-114954.	3.6	7
39	Deciphering therapeutic potential of PEGylated recombinant PTEN-silver nanoclusters ensemble on 3D spheroids. <i>Molecular Biology Reports</i> , 2019, 46, 5103-5112.	2.3	7
40	Synthesis of biologically active fused 1,4-oxathiin derivatives from 4-hydroxydithiocoumarins, arylacetylenes and dimethyl sulfoxide by Cu-catalyzed C-H functionalization and cross-dehydrogenative C-S coupling reactions. <i>Organic and Biomolecular Chemistry</i> , 2021, 19, 5818-5826.	2.8	7
41	Interactive luminescent gold nanocluster embedded dsDNA and cisplatin as model nanoparticles for cancer theranostics. <i>RSC Advances</i> , 2016, 6, 113053-113057.	3.6	6
42	Nerve growth factor from Indian Russell's viper venom (RVV-NGFa) shows high affinity binding to TrkA receptor expressed in breast cancer cells: Application of fluorescence labeled RVV-NGFa in the clinical diagnosis of breast cancer. <i>Biochimie</i> , 2020, 176, 31-44.	2.6	6
43	Rationally designed <i>Escherichia coli</i> cytosine deaminase mutants with improved specificity towards the prodrug 5-fluorocytosine for potential gene therapy applications. <i>MedChemComm</i> , 2012, 3, 1316.	3.4	5
44	Chemosensitization of $\beta$ -overexpressing glioblastoma towards anti-cancer agents. <i>RSC Advances</i> , 2014, 4, 39257-39267.	3.6	5
45	Functional characterization of recombinant human granulocyte colony stimulating factor (hGM-CSF) immobilized onto silica nanoparticles. <i>Biotechnology Letters</i> , 2016, 38, 243-249.	2.2	5
46	Unravelling the potential of a new uracil phosphoribosyltransferase (UPRT) from <i>Arabidopsis thaliana</i> in sensitizing HeLa cells towards 5-fluorouracil. <i>International Journal of Biological Macromolecules</i> , 2016, 91, 310-316.	7.5	5
47	Boolean-chemotaxis of logibots deciphering the motions of self-propelling microorganisms. <i>Soft Matter</i> , 2018, 14, 3182-3191.	2.7	5
48	Unfolding transmembrane TNF dynamics in cancer therapeutics. <i>Cytokine</i> , 2021, 137, 155303.	3.2	5
49	Multifunctional liquid marbles to stabilize and transport reactive fluids. <i>Soft Matter</i> , 2021, 17, 5084-5095.	2.7	5
50	Single Platform for Gene and Protein Expression Analyses Using Luminescent Gold Nanoclusters. <i>ACS Omega</i> , 2018, 3, 2119-2129.	3.5	4
51	Smartphone controlled interactive portable device for theranostics in vitro. <i>Biosensors and Bioelectronics</i> , 2019, 146, 111745.	10.1	4
52	Connexin-43 Enhances the Redesigned Cytosine Deaminase Activity for Suicide Gene Therapy in Human Breast Cancer Cells. <i>Biochemistry Insights</i> , 2019, 12, 117862641881818.	3.3	4
53	A conformational tweak for enhanced cellular internalization, photobleaching resistance and prolonged imaging efficacy. <i>Chemical Communications</i> , 2020, 56, 14861-14864.	4.1	4
54	Developing membrane-derived nanocarriers for <i>ex vivo</i> therapy of homologous breast cancer cells. <i>Nanomedicine</i> , 2021, 16, 1843-1856.	3.3	4

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55	Heterologous expression and functional characterization of phytaspase, a caspase-like plant protease. International Journal of Biological Macromolecules, 2017, 95, 288-293.	7.5	3
56	In-silico evidence of ADAM metalloproteinase pathology in cancer signaling networks. Journal of Biomolecular Structure and Dynamics, 2021, , 1-16.	3.5	3
57	Reply to Comment on Evaporation-Induced Patterns from Droplets Containing Motile and Nonmotile Bacteria. Langmuir, 2007, 23, 11942-11942.	3.5	2
58	Interaction studies of E. coli uracil phosphoribosyltransferase with 5-fluorouracil for potent anti cancer activity. Medicinal Chemistry Research, 2012, 21, 1149-1155.	2.4	2
59	Nanocarriers: Gold Nanoparticle-Protein Agglomerates as Versatile Nanocarriers for Drug Delivery (Small 20/2013). Small, 2013, 9, 3493-3493.	10.0	2
60	Studying in vitro phagocytosis of apoptotic cancer cells by recombinant GMCSF-treated RAW 264.7 macrophages. International Journal of Biological Macromolecules, 2017, 102, 1138-1145.	7.5	2
61	Proline selective labeling via on-site construction of naphthoxazole (NapOx). Chemical Communications, 2022, 58, 5909-5912.	4.1	2
62	In Vitro Therapeutic Attributes of Luminescent Hydroxyapatite Nanoparticles in Codelivery Module. ACS Applied Bio Materials, 2022, 5, 2741-2753.	4.6	2
63	Deciphering insights of novel recombinant tmTNF± in cell growth inhibition. Molecular Biology Reports, 2020, 47, 3949-3961.	2.3	1
64	Transport Behavior of Commercial Anticancer Drug Protein-Bound Paclitaxel (Paclivad) in a Micron-Sized Channel. Langmuir, 2022, 38, 2014-2025.	3.5	1
65	Regioselective ring-opening of epoxide and N-tosylaziridine with 4-hydroxydithiocoumarin: Key precursors of 2,3-dihydro-1,4-oxathin and 2,3-dihydro-1,4-thiazine derivatives. European Journal of Organic Chemistry, 0, , .	2.4	1
66	Dual therapeutic approach to modulate Glycogen Synthase kinase $\alpha^3$ beta (GSK-3 $\beta$ ) and inhibitor of nuclear factor kappa kinase-beta (IKK- $\beta$ ) receptors by in silico designing of inhibitors. Journal of Molecular Graphics and Modelling, 2022, 115, 108225.	2.4	1
67	Drug Delivery: Gold Nanocluster Embedded Albumin Nanoparticles for Two-Photon Imaging of Cancer Cells Accompanying Drug Delivery (Small 33/2015). Small, 2015, 11, 4074-4074.	10.0	0
68	Retention of functional characteristics of glutathione-S-transferase and lactate dehydrogenase-A in fusion protein. Preparative Biochemistry and Biotechnology, 2018, 48, 128-135.	1.9	0
69	Designing of disruptor molecules to restrain the protein-protein interaction network of VANG1/SCRIB/NOS1AP using fragment-based drug discovery techniques. Molecular Diversity, 0, , .	3.9	0