

Surajit Ghosh

List of Publications by Year in descending order

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Version: 2024-02-01

81
papers

1,903
citations

257101

24
h-index

288905

40
g-index

81
all docs

81
docs citations

81
times ranked

2832
citing authors

#	ARTICLE	IF	CITATIONS
1	Designed hybrid anticancer nuclear-localized peptide inhibits aggressive cancer cell proliferation. RSC Medicinal Chemistry, 2022, 13, 196-201.	1.7	4
2	Facile Method of Tubulin Purification from Goat Brain for Reconstitution of Microtubule-Associated Intracellular Function. Methods in Molecular Biology, 2022, 2430, 17-45.	0.4	0
3	Development of poly(vinylidene fluoride) graft random copolymer membrane for antifouling and antimicrobial applications. Journal of Industrial and Engineering Chemistry, 2022, 112, 171-181.	2.9	3
4	Exosome: The "Off-the-Shelf" Cellular Nanocomponent as a Potential Pathogenic Agent, a Disease Biomarker, and Neurotherapeutics. Frontiers in Pharmacology, 2022, 13, .	1.6	4
5	Self-Assembled Antimitotic Peptide Vesicle Designed from α -Tubulin Heterodimer Interface for Anticancer Drug Delivery. Israel Journal of Chemistry, 2022, 62, .	1.0	2
6	A potent estrogen receptor and microtubule specific purine-benzothiazole-based fluorescent molecular probe induces apoptotic death of breast cancer cells. Scientific Reports, 2022, 12, .	1.6	3
7	AlGaIn/GaN HEMT Based Biosensor for Detection of the HER2 Antigen Spiked in Human Serum. IEEE Transactions on Electron Devices, 2022, 69, 4527-4533.	1.6	6
8	Brain-on-a-Chip. , 2022, , 475-493.		1
9	Power of an Organic Electron Acceptor in Modulation of Intracellular Mitochondrial Reactive Oxygen Species: Inducing JNK- and Caspase-Dependent Apoptosis of Cancer Cells. ACS Omega, 2021, 6, 7815-7828.	1.6	2
10	A Small Molecule with Bridged Carbonyl and Tri-fluoroaceto-phenone Groups Impedes Microtubule Dynamics and Subsequently Triggers Cancer Cell Apoptosis. ChemMedChem, 2021, 16, 2703-2714.	1.6	1
11	Fluorine Substituted Proline Enhances the Tubulin Binding Potential of a Tetrapeptide at the GTP Binding Pocket Causing the Inhibition of Microtubule Motility and an Antimitotic Effect. Journal of Physical Chemistry B, 2021, 125, 8768-8780.	1.2	3
12	Effect of gold nanoparticles on the structure and neuroprotective function of protein L-isoaspartyl methyltransferase (PIMT). Scientific Reports, 2021, 11, 14296.	1.6	9
13	Three-Dimensional Microfluidic Platform with Neural Organoids: Model System for Unraveling Synapses. ACS Chemical Neuroscience, 2020, 11, 101-102.	1.7	3
14	The role of isoaspartate in fibrillation and its prevention by Protein-L-isoaspartyl methyltransferase. Biochimica Et Biophysica Acta - General Subjects, 2020, 1864, 129500.	1.1	16
15	Rhodamine-Based Metal Chelator: A Potent Inhibitor of Metal-Catalyzed Amyloid Toxicity. ACS Omega, 2020, 5, 18958-18967.	1.6	14
16	Human Serum Albumin-Inspired Glycopeptide-Based Multifunctional Inhibitor of Amyloid- β Toxicity. ACS Omega, 2020, 5, 18628-18641.	1.6	6
17	An overview of key potential therapeutic strategies for combat in the COVID-19 battle. RSC Advances, 2020, 10, 28243-28266.	1.7	34
18	Myelin Associated Inhibitory Proteins as a Therapeutic Target for Healing of CNS Injury. ACS Chemical Neuroscience, 2020, 11, 1699-1700.	1.7	7

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19	Extracellular Matrix (ECM)-Mimicking Neuroprotective Injectable Sulfo-Functionalized Peptide Hydrogel for Repairing Brain Injury. <i>ACS Biomaterials Science and Engineering</i> , 2020, 6, 2287-2296.	2.6	27
20	Cell-Derived Exosome Therapy: A Novel Approach to Treat Post-traumatic Brain Injury Mediated Neural Injury. <i>ACS Chemical Neuroscience</i> , 2020, 11, 2045-2047.	1.7	32
21	Recent trends in the development of peptide and protein-based hydrogel therapeutics for the healing of CNS injury. <i>Soft Matter</i> , 2020, 16, 10046-10064.	1.2	35
22	Targeting Chondroitin Sulfate Proteoglycans: An Emerging Therapeutic Strategy to Treat CNS Injury. <i>ACS Chemical Neuroscience</i> , 2020, 11, 231-232.	1.7	26
23	Neurological Insights of COVID-19 Pandemic. <i>ACS Chemical Neuroscience</i> , 2020, 11, 1206-1209.	1.7	126
24	Self-Assembly of Antimitotic Peptide at Membranes: Computational and Experimental Investigation. <i>ACS Omega</i> , 2019, 4, 745-754.	1.6	1
25	Generation of Neurospheres from Mixed Primary Hippocampal and Cortical Neurons Isolated from E14-E16 Sprague Dawley Rat Embryo. <i>Journal of Visualized Experiments</i> , 2019, , .	0.2	3
26	Tripodal molecular propellers perturb microtubule dynamics: indole acts as a blade and plays a crucial role in anticancer activity. <i>Chemical Communications</i> , 2019, 55, 2356-2359.	2.2	4
27	Why Microtubules Should Be Considered as One of the Supplementary Targets for Designing Neurotherapeutics. <i>ACS Chemical Neuroscience</i> , 2019, 10, 1118-1120.	1.7	6
28	Probing Deviation of Adhered Membrane Dynamics between Reconstituted Liposome and Cellular System. <i>Chemistry - an Asian Journal</i> , 2019, 14, 4616-4624.	1.7	4
29	Mitochondria-Targeted New Blue Light-Emitting Fluorescent Molecular Probe. <i>ACS Omega</i> , 2019, 4, 9361-9366.	1.6	2
30	<i>In Silico</i> Approach for Designing Potent Neuroprotective Hexapeptide. <i>ACS Chemical Neuroscience</i> , 2019, 10, 3018-3030.	1.7	7
31	Dual-Arm Nanocapsule Targets Neuropilin-1 Receptor and Microtubule: A Potential Nanomedicine Platform. <i>Molecular Pharmaceutics</i> , 2019, 16, 2522-2531.	2.3	13
32	Potential Neuroprotective Peptide Emerged from Dual Neurotherapeutic Targets: A Fusion Approach for the Development of Anti-Alzheimer's™s Lead. <i>ACS Chemical Neuroscience</i> , 2019, 10, 2609-2620.	1.7	14
33	Biocompatible Lipopeptide-Based Antibacterial Hydrogel. <i>Biomacromolecules</i> , 2019, 20, 1889-1898.	2.6	38
34	Power of Tyrosine Assembly in Microtubule Stabilization and Neuroprotection Fueled by Phenol Appendages. <i>ACS Chemical Neuroscience</i> , 2019, 10, 1506-1516.	1.7	5
35	Discovery of Neuroregenerative Peptoid from Amphibian Neuropeptide That Inhibits Amyloid- β^2 Toxicity and Crosses Blood-Brain Barrier. <i>ACS Chemical Neuroscience</i> , 2019, 10, 1355-1368.	1.7	15
36	Neuro-Regenerative Choline-Functionalized Injectable Graphene Oxide Hydrogel Repairs Focal Brain Injury. <i>ACS Chemical Neuroscience</i> , 2019, 10, 1535-1543.	1.7	29

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37	Live Cell Microscopy: A Physical Chemistry Approach. <i>Journal of Physical Chemistry B</i> , 2018, 122, 3023-3036.	1.2	19
38	Spatial Position Regulates Power of Tryptophan: Discovery of a Major-Groove-Specific Nuclear-Localizing, Cell-Penetrating Tetrapeptide. <i>Journal of the American Chemical Society</i> , 2018, 140, 1697-1714.	6.6	36
39	Designed Tetrapeptide Interacts with Tubulin and Microtubule. <i>Langmuir</i> , 2018, 34, 1123-1132.	1.6	16
40	Probing the conformational dynamics of photosystem I in unconfined and confined spaces. <i>Physical Chemistry Chemical Physics</i> , 2018, 20, 449-455.	1.3	2
41	Crafting of Neuroprotective Octapeptide from Taxol-Binding Pocket of β -Tubulin. <i>ACS Chemical Neuroscience</i> , 2018, 9, 615-625.	1.7	25
42	Neurosphere Development from Hippocampal and Cortical Embryonic Mixed Primary Neuron Culture: A Potential Platform for Screening Neurochemical Modulator. <i>ACS Chemical Neuroscience</i> , 2018, 9, 2870-2878.	1.7	12
43	Genesis of Neuroprotective Peptoid from β -Amyloid Inhibits β -Aggregation and AChE Activity. <i>ACS Chemical Neuroscience</i> , 2018, 9, 2929-2940.	1.7	13
44	Matrix metalloproteinase targeted peptide vesicles for delivering anticancer drugs. <i>Chemical Communications</i> , 2018, 54, 9309-9312.	2.2	8
45	Peptide-Based Acetylcholinesterase Inhibitor Crosses the Blood-Brain Barrier and Promotes Neuroprotection. <i>ACS Chemical Neuroscience</i> , 2018, 9, 2838-2848.	1.7	30
46	Biodegradable Neuro-Compatible Peptide Hydrogel Promotes Neurite Outgrowth, Shows Significant Neuroprotection, and Delivers Anti-Alzheimer Drug. <i>ACS Applied Materials & Interfaces</i> , 2017, 9, 5067-5076.	4.0	57
47	Physical chemistry in a single live cell: confocal microscopy. <i>Physical Chemistry Chemical Physics</i> , 2017, 19, 12620-12627.	1.3	10
48	Self-assembling soft structures for intracellular NO release and promotion of neurite outgrowth. <i>Chemical Science</i> , 2017, 8, 6171-6175.	3.7	14
49	Cancer Cell Specific Delivery of Photosystem I Through Integrin Targeted Liposome Shows Significant Anticancer Activity. <i>ACS Applied Materials & Interfaces</i> , 2017, 9, 176-188.	4.0	23
50	Amphiphilic Peptide-Based Supramolecular, Noncytotoxic, Stimuli-Responsive Hydrogels with Antibacterial Activity. <i>Biomacromolecules</i> , 2017, 18, 3621-3629.	2.6	127
51	Methanolic Extract of Papaya Leaves Shows Neuroprotective Effect. <i>ChemistrySelect</i> , 2017, 2, 9454-9457.	0.7	4
52	Antimitotic Peptides: Synergistic Anticancer Effect of Peptide-Docetaxel Nanoassembly Targeted to Tubulin: Toward Development of Dual Warhead Containing Nanomedicine (<i>Adv. Healthcare Mater.</i>)	3.9	18
53	Synergistic Anticancer Effect of Peptide-Docetaxel Nanoassembly Targeted to Tubulin: Toward Development of Dual Warhead Containing Nanomedicine. <i>Advanced Healthcare Materials</i> , 2017, 6, 1600718.	3.9	18
54	A dual functional liposome specifically targets melanoma cells through integrin and ephrin receptors. <i>RSC Advances</i> , 2016, 6, 113487-113491.	1.7	10

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55	Î±-Cyclodextrin Interacts Close to Vinblastine Site of Tubulin and Delivers Curcumin Preferentially to the Tubulin Surface of Cancer Cell. ACS Applied Materials & Interfaces, 2016, 8, 13793-13803.	4.0	26
56	Cancer Cell Imaging Using in Situ Generated Gold Nanoclusters. ChemPhysChem, 2016, 17, 61-68.	1.0	39
57	Design of a novel microtubule targeted peptide vesicle for delivering different anticancer drugs. Chemical Communications, 2016, 52, 7549-7552.	2.2	15
58	Fluorescence Probing of Fluctuating Microtubule using a Covalent Fluorescent Probe: Effect of Taxol. ChemistrySelect, 2016, 1, 1841-1847.	0.7	2
59	Novel tubulin-targeted cell penetrating antimetabolic octapeptide. Chemical Communications, 2016, 52, 12657-12660.	2.2	13
60	Amyloid beta peptides inside a reconstituted cell-like liposomal system: aggregation, FRET, fluorescence oscillations and solvation dynamics. Physical Chemistry Chemical Physics, 2016, 18, 30444-30451.	1.3	15
61	Apo ferritin Nanocage Delivers Combination of Microtubule and Nucleus Targeting Anticancer Drugs. ACS Applied Materials & Interfaces, 2016, 8, 30824-30832.	4.0	36
62	Selective Killing of Breast Cancer Cells by Doxorubicin-Loaded Fluorescent Gold Nanoclusters: Confocal Microscopy and FRET. ChemPhysChem, 2016, 17, 253-259.	1.0	32
63	Spectral mapping of 3D multi-cellular tumor spheroids: time-resolved confocal microscopy. Physical Chemistry Chemical Physics, 2016, 18, 18381-18390.	1.3	20
64	Peptide based hydrogels for cancer drug release: modulation of stiffness, drug release and proteolytic stability of hydrogels by incorporating <sc>d</sc>-amino acid residue(s). Chemical Communications, 2016, 52, 5045-5048.	2.2	106
65	Direct observation of the growth and shrinkage of microtubules by single molecule FÅrster resonance energy transfer. Physical Chemistry Chemical Physics, 2015, 17, 6687-6690.	1.3	11
66	Novel Hexapeptide Interacts with Tubulin and Microtubules, Inhibits AÎ² Fibrillation, and Shows Significant Neuroprotection. ACS Chemical Neuroscience, 2015, 6, 1309-1316.	1.7	27
67	Fluorescence fluctuation of an antigen-antibody complex: circular dichroism, FCS and smFRET of enhanced GFP and its antibody. Physical Chemistry Chemical Physics, 2015, 17, 25250-25259.	1.3	13
68	Interaction of AÎ² peptide with tubulin causes an inhibition of tubulin polymerization and the apoptotic death of cancer cells. Chemical Communications, 2015, 51, 2249-2252.	2.2	17
69	Excited State Proton Transfer in the Lysosome of Live Lung Cells: Normal and Cancer Cells. Journal of Physical Chemistry B, 2015, 119, 2149-2156.	1.2	44
70	Co- and distinct existence of Tris-NTA and biotin functionalities on individual and adjacent micropatterned surfaces generated by photo-destruction. Soft Matter, 2014, 10, 2341-2345.	1.2	4
71	An amyloid inhibitor octapeptide forms amyloid type fibrous aggregates and affects microtubule motility. Chemical Communications, 2014, 50, 2604-2607.	2.2	22
72	Confocal microscopy of cytoplasmic lipid droplets in a live cancer cell: number, polarity, diffusion and solvation dynamics. MedChemComm, 2014, 5, 536.	3.5	33

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73	Indolicidin Targets Duplex DNA: Structural and Mechanistic Insight through a Combination of Spectroscopy and Microscopy. <i>ChemMedChem</i> , 2014, 9, 2052-2058.	1.6	75
74	Assembly of an Injectable Noncytotoxic Peptide-Based Hydrogelator for Sustained Release of Drugs. <i>Langmuir</i> , 2014, 30, 929-936.	1.6	143
75	Dual Functionalized Graphene Oxide Serves as a Carrier for Delivering Oligohistidine- and Biotin-Tagged Biomolecules into Cells. <i>Macromolecular Bioscience</i> , 2013, 13, 1478-1484.	2.1	24
76	A Biotin Micropatterned Surface Generated by Photodestruction Serves as a Novel Platform for Microtubule Organisation and DNA Hybridisation. <i>ChemBioChem</i> , 2013, 14, 689-694.	1.3	11
77	In vitro reconstitution of a cell-like environment using liposomes for amyloid beta peptide aggregation and its propagation. <i>Chemical Communications</i> , 2013, 49, 6119.	2.2	19
78	Organization of Motor Proteins into Functional Micropatterns Fabricated by a Photoinduced Fenton Reaction. <i>Angewandte Chemie - International Edition</i> , 2009, 48, 9188-9191.	7.2	30
79	Self-assembly and potassium ion triggered disruption of peptide-based soft structures. <i>Chemical Communications</i> , 2007, , 2296.	2.2	51
80	Bioinspired Design of Nanocages by Self-Assembling Triskelion Peptide Elements. <i>Angewandte Chemie - International Edition</i> , 2007, 46, 2002-2004.	7.2	133
81	Peptide-Based Soft Materials as Potential Drug Delivery Vehicles. <i>Medicinal Chemistry</i> , 2007, 3, 605-611.	0.7	12