# Surajit Ghosh

List of Publications by Year
in descending order

Source: https://exaly.com/author-pdf/6321270/publications.pdf

Version: 2024-02-01

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|---|---|---|---|
| 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 | Assembly of an Injectable Noncytotoxic Peptide-Based Hydrogelator for Sustained Release of Drugs. Langmuir, 2014, 30, 929-936. | 1.6 | 143 |
| 2 | Bioinspired Design of Nanocages by Self-Assembling Triskelion Peptide Elements. Angewandte Chemie - International Edition, 2007, 46, 2002-2004. | 7.2 | 133 |
| 3 | Amphiphilic Peptide-Based Supramolecular, Noncytotoxic, Stimuli-Responsive Hydrogels with Antibacterial Activity. Biomacromolecules, 2017, 18, 3621-3629. | 2.6 | 127 |
| 4 | Neurological Insights of COVID-19 Pandemic. ACS Chemical Neuroscience, 2020, 11, 1206-1209. | 1.7 | 126 |
| 5 | Peptide based hydrogels for cancer drug release: modulation of stiffness, drug release and proteolytic stability of hydrogels by incorporating <scp>d</scp>-amino acid residue(s). Chemical Communications, 2016, 52, 5045-5048. | 2.2 | 106 |
| 6 | Indolicidin Targets Duplex DNA: Structural and Mechanistic Insight through a Combination of Spectroscopy and Microscopy. ChemMedChem, 2014, 9, 2052-2058. | 1.6 | 75 |
| 7 | Biodegradable Neuro-Compatible Peptide Hydrogel Promotes Neurite Outgrowth, Shows Significant Neuroprotection, and Delivers Anti-Alzheimer Drug. ACS Applied Materials & Interfaces, 2017, 9, 5067-5076. | 4.0 | 57 |
| 8 | Self-assembly and potassium ion triggered disruption of peptide-based soft structures. Chemical Communications, 2007, , 2296. | 2.2 | 51 |
| 9 | 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 |
| 10 | Cancer Cell Imaging Using in Situ Generated Gold Nanoclusters. ChemPhysChem, 2016, 17, 61-68. | 1.0 | 39 |
| 11 | Biocompatible Lipopeptide-Based Antibacterial Hydrogel. Biomacromolecules, 2019, 20, 1889-1898. | 2.6 | 38 |
| 12 | Apoferritin Nanocage Delivers Combination of Microtubule and Nucleus Targeting Anticancer Drugs. ACS Applied Materials & Interfaces, 2016, 8, 30824-30832. | 4.0 | 36 |
| 13 | Spatial Position Regulates Power of Tryptophan: Discovery of a Major-Groove-Specific Nuclear-Localizing, Cell-Penetrating Tetrapeptide. Journal of the American Chemical Society, 2018, 140, 1697-1714. | 6.6 | 36 |
| 14 | Recent trends in the development of peptide and protein-based hydrogel therapeutics for the healing of CNS injury. Soft Matter, 2020, 16, 10046-10064. | 1.2 | 35 |
| 15 | An overview of key potential therapeutic strategies for combat in the COVID-19 battle. RSC Advances, 2020, 10, 28243-28266. | 1.7 | 34 |
| 16 | Confocal microscopy of cytoplasmic lipid droplets in a live cancer cell: number, polarity, diffusion and solvation dynamics. MedChemComm, 2014, 5, 536. | 3.5 | 33 |
| 17 | Selective Killing of Breast Cancer Cells by Doxorubicinâ€Loaded Fluorescent Gold Nanoclusters: Confocal Microscopy and FRET. ChemPhysChem, 2016, 17, 253-259. | 1.0 | 32 |
| 18 | Cell-Derived Exosome Therapy: A Novel Approach to Treat Post-traumatic Brain Injury Mediated Neural Injury. ACS Chemical Neuroscience, 2020, 11, 2045-2047. | 1.7 | 32 |

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|---|---|---|---|
| 19 | Organization of Motor Proteins into Functional Micropatterns Fabricated by a Photoinduced Fenton Reaction. Angewandte Chemie - International Edition, 2009, 48, 9188-9191. | 7.2 | 30 |
| 20 | Peptide-Based Acetylcholinesterase Inhibitor Crosses the Blood-Brain Barrier and Promotes Neuroprotection. ACS Chemical Neuroscience, 2018, 9, 2838-2848. | 1.7 | 30 |
| 21 | Neuro-Regenerative Choline-Functionalized Injectable Graphene Oxide Hydrogel Repairs Focal Brain Injury. ACS Chemical Neuroscience, 2019, 10, 1535-1543. | 1.7 | 29 |
| 22 | Novel Hexapeptide Interacts with Tubulin and Microtubules, Inhibits AÎ² Fibrillation, and Shows Significant Neuroprotection. ACS Chemical Neuroscience, 2015, 6, 1309-1316. | 1.7 | 27 |
| 23 | Extracellular Matrix (ECM)-Mimicking Neuroprotective Injectable Sulfo-Functionalized Peptide Hydrogel for Repairing Brain Injury. ACS Biomaterials Science and Engineering, 2020, 6, 2287-2296. | 2.6 | 27 |
| 24 | 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 |
| 25 | Targeting Chondroitin Sulfate Proteoglycans: An Emerging Therapeutic Strategy to Treat CNS Injury. ACS Chemical Neuroscience, 2020, 11, 231-232. | 1.7 | 26 |
| 26 | Crafting of Neuroprotective Octapeptide from Taxol-Binding Pocket of Î²-Tubulin. ACS Chemical Neuroscience, 2018, 9, 615-625. | 1.7 | 25 |
| 27 | Dual Functionalized Graphene Oxide Serves as a Carrier for Delivering Oligohistidineâ€•and Biotinâ€Tagged Biomolecules into Cells. Macromolecular Bioscience, 2013, 13, 1478-1484. | 2.1 | 24 |
| 28 | Cancer Cell Specific Delivery of Photosystem I Through Integrin Targeted Liposome Shows Significant Anticancer Activity. ACS Applied Materials & Interfaces, 2017, 9, 176-188. | 4.0 | 23 |
| 29 | An amyloid inhibitor octapeptide forms amyloid type fibrous aggregates and affects microtubule motility. Chemical Communications, 2014, 50, 2604-2607. | 2.2 | 22 |
| 30 | Spectral mapping of 3D multi-cellular tumor spheroids: time-resolved confocal microscopy. Physical Chemistry Chemical Physics, 2016, 18, 18381-18390. | 1.3 | 20 |
| 31 | In vitro reconstitution of a cell-like environment using liposomes for amyloid beta peptide aggregation and its propagation. Chemical Communications, 2013, 49, 6119. | 2.2 | 19 |
| 32 | Live Cell Microscopy: A Physical Chemistry Approach. Journal of Physical Chemistry B, 2018, 122, 3023-3036. | 1.2 | 19 |
| 33 | Synergistic Anticancer Effect of Peptideâ€Docetaxel Nanoassembly Targeted to Tubulin: Toward Development of Dual Warhead Containing Nanomedicine. Advanced Healthcare Materials, 2017, 6, 1600718. | 3.9 | 18 |
| 34 | 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 |
| 35 | Designed Tetrapeptide Interacts with Tubulin and Microtubule. Langmuir, 2018, 34, 1123-1132. | 1.6 | 16 |
| 36 | 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 |

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|---|---|---|---|
| 37 | Design of a novel microtubule targeted peptide vesicle for delivering different anticancer drugs. Chemical Communications, 2016, 52, 7549-7552. | 2.2 | 15 |
| 38 | 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 |
| 39 | Discovery of Neuroregenerative Peptoid from Amphibian Neuropeptide That Inhibits Amyloid-Î² Toxicity and Crosses Bloodâ€“Brain Barrier. ACS Chemical Neuroscience, 2019, 10, 1355-1368. | 1.7 | 15 |
| 40 | Self-assembling soft structures for intracellular NO release and promotion of neurite outgrowth. Chemical Science, 2017, 8, 6171-6175. | 3.7 | 14 |
| 41 | Potential Neuroprotective Peptide Emerged from Dual Neurotherapeutic Targets: A Fusion Approach for the Development of Anti-Alzheimerâ€™s Lead. ACS Chemical Neuroscience, 2019, 10, 2609-2620. | 1.7 | 14 |
| 42 | Rhodamine-Based Metal Chelator: A Potent Inhibitor of Metal-Catalyzed Amyloid Toxicity. ACS Omega, 2020, 5, 18958-18967. | 1.6 | 14 |
| 43 | Fluorescence fluctuation of an antigenâ€“antibody complex: circular dichroism, FCS and smFRET of enhanced GFP and its antibody. Physical Chemistry Chemical Physics, 2015, 17, 25250-25259. | 1.3 | 13 |
| 44 | Novel tubulin-targeted cell penetrating antimitotic octapeptide. Chemical Communications, 2016, 52, 12657-12660. | 2.2 | 13 |
| 45 | Genesis of Neuroprotective Peptoid from AÎ²30â€“34 Inhibits AÎ² Aggregation and AChE Activity. ACS Chemical Neuroscience, 2018, 9, 2929-2940. | 1.7 | 13 |
| 46 | Dual-Arm Nanocapsule Targets Neuropilin-1 Receptor and Microtubule: A Potential Nanomedicine Platform. Molecular Pharmaceutics, 2019, 16, 2522-2531. | 2.3 | 13 |
| 47 | Neurosphere Development from Hippocampal and Cortical Embryonic Mixed Primary Neuron Culture: A Potential Platform for Screening Neurochemical Modulator. ACS Chemical Neuroscience, 2018, 9, 2870-2878. | 1.7 | 12 |
| 48 | Peptide-Based Soft Materials as Potential Drug Delivery Vehicles. Medicinal Chemistry, 2007, 3, 605-611. | 0.7 | 12 |
| 49 | A Biotin Micropatterned Surface Generated by Photodestruction Serves as a Novel Platform for Microtubule Organisation and DNA Hybridisation. ChemBioChem, 2013, 14, 689-694. | 1.3 | 11 |
| 50 | Direct observation of the growth and shrinkage of microtubules by single molecule FÃ¶rster resonance energy transfer. Physical Chemistry Chemical Physics, 2015, 17, 6687-6690. | 1.3 | 11 |
| 51 | A dual functional liposome specifically targets melanoma cells through integrin and ephrin receptors. RSC Advances, 2016, 6, 113487-113491. | 1.7 | 10 |
| 52 | Physical chemistry in a single live cell: confocal microscopy. Physical Chemistry Chemical Physics, 2017, 19, 12620-12627. | 1.3 | 10 |
| 53 | Effect of gold nanoparticles on the structure and neuroprotective function of protein L-isoaspartyl methyltransferase (PIMT). Scientific Reports, 2021, 11, 14296. | 1.6 | 9 |
| 54 | Matrix metalloproteinase targeted peptide vesicles for delivering anticancer drugs. Chemical Communications, 2018, 54, 9309-9312. | 2.2 | 8 |

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|---|---|---|---|
| 55 | In Silico Approach for Designing Potent Neuroprotective Hexapeptide. ACS Chemical Neuroscience, 2019, 10, 3018-3030. | 1.7 | 7 |
| 56 | Myelin Associated Inhibitory Proteins as a Therapeutic Target for Healing of CNS Injury. ACS Chemical Neuroscience, 2020, 11, 1699-1700. | 1.7 | 7 |
| 57 | Why Microtubules Should Be Considered as One of the Supplementary Targets for Designing Neurotherapeutics. ACS Chemical Neuroscience, 2019, 10, 1118-1120. | 1.7 | 6 |
| 58 | Human Serum Albumin-Inspired Glycopeptide-Based Multifunctional Inhibitor of Amyloid-Î² Toxicity. ACS Omega, 2020, 5, 18628-18641. | 1.6 | 6 |
| 59 | AlGaN/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 |
| 60 | Power of Tyrosine Assembly in Microtubule Stabilization and Neuroprotection Fueled by Phenol Appendages. ACS Chemical Neuroscience, 2019, 10, 1506-1516. | 1.7 | 5 |
| 61 | 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 |
| 62 | Methanolic Extract of Papaya Leaves Shows Neuroprotective Effect. ChemistrySelect, 2017, 2, 9454-9457. | 0.7 | 4 |
| 63 | Tripodal molecular propellers perturb microtubule dynamics: indole acts as a blade and plays a crucial role in anticancer activity. Chemical Communications, 2019, 55, 2356-2359. | 2.2 | 4 |
| 64 | Probing Deviation of Adhered Membrane Dynamics between Reconstituted Liposome and Cellular System. Chemistry - an Asian Journal, 2019, 14, 4616-4624. | 1.7 | 4 |
| 65 | Designed hybrid anticancer nuclear-localized peptide inhibits aggressive cancer cell proliferation. RSC Medicinal Chemistry, 2022, 13, 196-201. | 1.7 | 4 |
| 66 | Exosome: The â€œOff-the-Shelfâ€•Cellular Nanocomponent as a Potential Pathogenic Agent, a Disease Biomarker, and Neurotherapeutics. Frontiers in Pharmacology, 2022, 13, . | 1.6 | 4 |
| 67 | Generation of Neurospheres from Mixed Primary Hippocampal and Cortical Neurons Isolated from E14-E16 Sprague Dawley Rat Embryo. Journal of Visualized Experiments, 2019, , . | 0.2 | 3 |
| 68 | Three-Dimensional Microfluidic Platform with Neural Organoids: Model System for Unraveling Synapses. ACS Chemical Neuroscience, 2020, 11, 101-102. | 1.7 | 3 |
| 69 | 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 |
| 70 | 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 |
| 71 | 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 |
| 72 | Fluorescence Probing of Fluctuating Microtubule using a Covalent Fluorescent Probe: Effect of Taxol. ChemistrySelect, 2016, 1, 1841-1847. | 0.7 | 2 |

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|---|---|---|---|
| 73 | Probing the conformational dynamics of photosystem I in unconfined and confined spaces. Physical Chemistry Chemical Physics, 2018, 20, 449-455. | 1.3 | 2 |
| 74 | Mitochondria-Targeted New Blue Light-Emitting Fluorescent Molecular Probe. ACS Omega, 2019, 4, 9361-9366. | 1.6 | 2 |
| 75 | 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 |
| 76 | Selfâ€Assembled Antimitotic Peptide Vesicle Designed fromÎ±,Î²â€Tubulin Heterodimer Interface for Anticancer Drug Delivery. Israel Journal of Chemistry, 2022, 62, . | 1.0 | 2 |
| 77 | Antimitoic Peptides: Synergistic Anticancer Effect of Peptideâ€Docetaxel Nanoassembly Targeted to Tubulin: Toward Development of Dual Warhead Containing Nanomedicine (Adv. Healthcare Mater.) Tj ETQq1 1 0.784314 rgBT /Overlock | 8.4 | 3 |
| 78 | Self-Assembly of Antimitotic Peptide at Membranes: Computational and Experimental Investigation. ACS Omega, 2019, 4, 745-754. | 1.6 | 1 |
| 79 | A Small Molecule with Bridged Carbonyl and Triâ€fluoroâ€acetoâ€phenone Groups Impedes Microtubule Dynamics and Subsequently Triggers Cancer Cell Apoptosis. ChemMedChem, 2021, 16, 2703-2714. | 1.6 | 1 |
| 80 | Brain-on-a-Chip. , 2022, , 475-493. | | 1 |
| 81 | 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 |