

List of Publications

1. **Maity, S.**, Dubey, D. K., Meena, J., Shekher, A., Singh, R. S., & Maiti, P. Doxorubicin-Intercalated Li–Al-Based LDHs as Potential Drug Delivery Nanovehicle with pH-Responsive Therapeutic Cargo for Tumor Treatment. *ACS Biomaterials Science & Engineering* 2024, 10, 6377–6396
2. **Swapan Maity, et al.** "Injectable hydrogel for biopolymers as controlled drug-delivery vehicle for melanoma treatment: A commentary." *Journal of Cancer Biology* 2022; 3(2):75-78.
3. **Maity S.,** Dubey, D. K., Upreti, A., Chowdhury, S., Kumar, A. Chandpa, H., Agarwal, A.K., Santra, M.K. & Maiti, P.(2024) ‘Innovation of high mechanical responsive Organic-Inorganic Nanocomposite effectively stable in acidic environment showing long acting drug release behaviour for cancer treatment.(Communicated)
4. **Swapan Maity, et al.** “Battle against drug resistant cancer using nanotechnology: Cellular and molecular mechanistic pathways” (Communicated, 2024).
5. Deepak Kumar Nayak....**Swapan Maity et al.** “Use of Simvastatin Loaded Biodegradable Hybrid in Gap Non-union –An Experimental Study” (Communicated, 2024).
6. Amita Santra**Swapan Maity et al.** “Core–Shell Structure of Photopolymer-Grafted Polyurethane as a Controlled Drug Delivery Vehicle for Biomedical Application”*ACS Applied Materials & Interfaces* 2024 16 (14), 17193-17207.
7. Athul K K, **Swapan Maity, et al.** "Fluorescent rotor: labeling lysosomes, mitochondria and lipid droplets through polarity and viscosity assessment." *Journal of Photochemistry and Photobiology, A: Chemistry* 454, 2024,115727.
8. Sumit Chaudhary**Swapan Maity et al.** “Solid state synthesis of novel anticancer drug eutectic mixtures; anticancer, physical and thermal studies” *Materials Letters* 2024.137255.
9. Ribhu Maity....**Swapan Maity et al.** “Synthesis of an Aryl-Semicarbazone-Based Cu (II) Complex for DNA and BSA Interaction and Anti-Cancer Activity against Human Cervix Uteri Carcinoma.” *Inorganics* 2024, 12, 19.
10. Ksirri R, **Swapan Maity, et al.** “Evaluation of anticancer activity of Gmelina asiatica leaves, in-vitro and in-silico studies.” *J Biomol Struct Dyn.* 2023 Oct 3:1-16.
11. Tanushree Mishra..... **Swapan Maity, et al,** “A naphthalimide appended rhodamine based biocompatible fluorescent probe: Chemosensor for selective detection of Hg²⁺

- ion, live cell imaging and DFT study”, *Journal of Photochemistry and Photobiology A: Chemistry*, Volume 446,202.
12. Manojit Das... **Swapan Maity**, *et al* “3D printing of tough nature inspired hierarchical architecture using chicken bone and eggshell biowaste for biomedical applications”, *Ceramics International*, Volume 49, Issue 17, Part B, 2023.
 13. Neelam Gupta, **Swapan Maity**, *et al* “Soluble and highly fluorescent conjugated polymer network: non-oxidative reversible doping, cell imaging and anticancer activity”, *New J. Chem.*, 2023, 47, 9585.
 14. Prasun Acharya...**Swapan Maity** *et al* “Combined theoretical and experimental insights on DNA and BSA binding interactions of Cu(ii) and Ni(ii) complexes along with the DPPH method of antioxidant assay and cytotoxicity studies” *RSC Adv.*, 2023,13, 7632-7644.
 15. Manojit das...**Swapan Maity**,*et al*. “3D Printing of a Biocompatible Nanoink Derived from Waste Animal Bones”, *ACS Appl. Bio Mater.* 2023, 6, 4, 1566–1576.
 16. Kheyannath Mitra, **Swapan Maity**, *et al* “Pyrene-tagged poly (N-vinyl pyrrolidone) as efficient nano-carrier for anticancer drug delivery” *International Journal of Polymeric Materials and Polymeric Biomaterials*, 73(7), 533–543.
 17. Prasun Acharya, **Swapan Maity** *et al*. “Hydrophobicity-induced DNA, BSA binding, and Biomaterial applications of a heteroleptic Cu (II) complex”*Applied Organometallic Chemistry* 2022, 36 (5).
 18. Kalyanmoy Jana..... **Swapan Maity** *et al* “Copper(II) complexes with NNN and NNO Schiff base ligands as efficient photodegradation agents for methylene blue, preferential BSA binder and biomaterial transplants”,*Journal of Photochemistry and Photobiology A: Chemistry*, Volume 422,2022,113565.
 19. Minakshi Maity....**Swapan Maity** *et al* “Biophysical insights into the binding capability of Cu(II) schiff base complex with BSA protein and cytotoxicity studies against SiHa”,*Heliyon*, Volume 8, Issue 11,2022,11345.
 20. Aparna Shukla, **Swapan Maity** *et al* “Dextrin and polyurethane graft copolymers as drug carrier: Synthesis, characterization, drug release”, biocompatibility and in-vitro toxicity, *Carbohydrate Polymer Technologies and Applications*, Volume 2,2021,10017.
 21. Ribhu Maity... **Swapan Maity** *et al*. “Exploring the Noncovalent Interactions of the Dinuclear Cu(II) Schiff Base Complex with Bovine Serum Albumin and Cell Viability against the SiHa Cancer Cell Line”. *J Phys Chem B.* 2021 Oct 21; 125(41):11364-11373.

Patent

- ❖ A DRUG DELIVERY VEHICLE AND A METHOD OF PREPARATION THEREOF. Pralay Maiti and **Swapan Maity**. Indian Patent Application No. 202411077359, Filed on October 11, 2024.

Conference Presentation

1. “*Nanostructured Multifunctional Inorganic Metal Hydroxide for Efficient Gene Delivery for Cancer Treatment*” **AMBT 2021**, Indian Institute of Technology (IIT), BHU, Varanasi, India, 13th – 17th July, 2021.
2. “*Nanostructured Inorganic Layered Double Hydroxide for efficient drug delivery for cancer treatment*”, **International e-conference on Bio polymers, APA BIOFORUM -2022**, July 14-16, 2022.
3. “*Interaction of Doxorubicin drug and LDHs nanocarriers: Potential Innovation in Nanotechnology as Inorganic Drug Delivery Nanovehicle for Cancer treatment*” **SPSI-MACRO-2023**, IIT GUWAHATI, 10-13 December, 2023.
4. “*Doxorubicin Intercalated Li-Al loaded LDH as Potential Drug Delivery Nanovehicle with pH Responsive therapeutic Cargo for Tumor Treatment.*” **31st West Bengal State science & Technology Congress**, DEPARTMENT OF SCIENCE & TECHNOLOGY AND BIOTECHNOLOGY, Government of West Bengal, 28th-29th February, 2024, Science City, Calcutta, West Bengal.
5. “*Doxorubicin Intercalated Li-Al loaded LDH as Potential Drug Delivery Nanovehicle with pH Responsive therapeutic Cargo for Tumor Treatment.*” **“International Conference on Human- Veterinary Oncology 2024”** with a theme on **“Bridging the Gap : Veterinary and Human Oncology in Concert to improved Health”**, held on 21st August at K.N Udupa Hall, Institute of Medical Sciences, Banaras Hindu University, Varanasi, India.

