

CURRICULUM VITAE of Dr. Swapan Kumar Mandal

Swapan Kumar Mandal

1. Silica-coated nano calcium carbonate reinforced polychloroprene rubber nanocomposites: influence of silica coating on cure, mechanical and thermal properties Kumarjyoti Roy, Md Najib Alam, **Swapan Kumar Mandal**, Subhas Chandra Debnath, *Journal of Nanostructure in Chemistry* **6 (1)**, 15-24 (2016).
2. Preparation of zinc-oxide-free natural rubber nanocomposites using nanostructured magnesium oxide as cure activator Kumarjyoti Roy, Md Najib Alam, **Swapan Kumar Mandal**, Subhas Chandra Debnath, *Journal of Applied Polymer Science*, **132(43)**, (2015).
3. A comparison between polyethylene glycol (PEG) and polypropylene glycol (PPG) treatment on the properties of nano-titanium dioxide (TiO₂) based natural rubber (NR) nanocomposites Kumarjyoti Roy, **Swapan Kumar Mandal**, Md Najib Alam, Subhas Chandra Debnath, *Polymer Bulletin*, **73(11)**, (3065-3079) (2016).
4. Effect of sol–gel modified nano calcium carbonate (CaCO₃) on the cure, mechanical and thermal properties of acrylonitrile butadiene rubber (NBR) nanocomposites, Kumarjyoti Roy, Md Najib Alam, **Swapan Kumar Mandal**, Subhas Chandra Debnath, *Journal of Sol-Gel Science and Technology*, **73 (2)**, 306-313, (2015).
5. Development of a suitable nanostructured cure activator system for polychloroprene rubber nanocomposites with enhanced curing, mechanical and thermal properties, Kumarjyoti Roy, Md Najib Alam, **Swapan Kumar Mandal**, Subhas Chandra Debnath, *Polymer Bulletin* **73 (1)**, 191-207 (2016)
6. Impact of surface modification on the properties of sol–gel synthesized nanotitanium dioxide (TiO₂)-based styrene butadiene rubber (SBR) nanocomposites Kumarjyoti Roy, **Swapan Kumar Mandal**, Md Najib Alam, Subhas Chandra Debnath, *Journal of Sol-Gel Science and Technology* **77 (3)**, 718-726, (2017).
7. Surface modification of nano titanium dioxide (tio₂) by cationic surfactants and investigation of its effect on the properties of natural rubber (nr) nanocomposites

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Rubber Chemistry and Technology 93 (2): 346–359 (2020) .

<https://doi.org/10.5254/rct.19.84831>

8. ICT EMBEDDED SCIENCE EDUCATION Swapan Kumar Mandal, *Journal of Education and Development*, **9(17)**, 573-578, (2019).

9. Implementation of NCTE curriculum 2014 to the secondary teacher education institutes of the district of Cachar in Assam: a critical study **Dr. Swapan Kumar Mandal & Jiyarul Bhuyan** *Journal of Education and Development*, **10(19)**, 21-31, (2020).

Four week Orientation Programme, HRDC University of Burdwan, West Bengal from 01.08.2017 to 28.08.2017.

3 week Refresher Course in Teacher Education, HRDC University of North Bengal, West Bengal, from 04.01.2019 to 24.01.2019.

Two-Week Faculty Development Programme (FDP) on Advance Techniques and Tools in Social Science Research, Dept. of Management and Business Administration, Aliah University in collaboration with SPSS, South Asia, from 24.11.2020 to 07.12.2020.