



Digambara Patra

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Prof. Digambara Patra obtained his PhD in Chemistry from Indian Institute of Technology Madras, India. He was a postdoctoral Fellow in University of Basel, Switzerland and awarded Alexander von Humboldt Research Fellow to conduct his research work at Forschungszentrum Juelich, Germany.

Afterwards he was awarded JSPS postdoctoral Fellowship and worked in National Institute of Natural Sciences, Okazaki and subsequently in Waseda University, Tokyo, Japan before joining American University of Beirut as Assistant Professor.

RESEARCH INTERESTS

AREA OF RESEARCH: Nanochemistry; Optical (Bio)Sensing; Biophysical Chemistry; Fluorescence Spectroscopy & Imaging.

BROAD RESEARCH IDEA: We explore to apply non-toxic food spice/polyphenol (such as curcumin) as green approach to replace toxic chemicals during nanoparticles preparation, which has implications in Chemistry and Environment.

Similarly, we target to prepare nano hybrid particles/nanocapsules (using smart polymers) as "theranostic agents" for developing fluorescence probe based diagnostic method and therapeutic application for diseases, which has implication in Medicine and Food Chemistry.

Currently he is a professor at American University of Beirut. He has published more than 104 research journal articles and more than 45 conferences presentation. He has been serving editorial board member for couple of journals.

His research area includes nanochemistry, metallic nanoparticles, fluorescence spectroscopy, sensing & probe and biophysical chemistry.