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***Short biography:*** My group at the national University of Singapore is focussed on developing functional materials for various applications. Ongoing projects involve exploration of molecular interactions and behaviour at the interface of materials - environment - human health. We have published more than 300 papers (H-index 61) with a citation of 18,900. I am also in the editorial boards of journals such as Scientific Reports, MRS (US) communication, Prism - Plastics (Cambridge Univ. Press), Nanomaterials (MDPI), International Journal of Molecular Science (MDPI), Cancer Nanotechnology, Frontiers in Marine Science etc.. Some of the ongoing projects in the groups include functionalization of natural polymers (e.g. cellulose), developing new adsorbent materials (e.g. polymers, metal oxides, biomembranes) for water purification, safety and toxicity of metallic nanoparticles & microplastics and investigation of biomimetic synthesis of hard tissues (e.g. eggshells, seashells).