

关于 Bharathiar University R. T. Rajendrakumar 副教授学术报告的通知

报告题目: Nano-engineering of 1D core-shell nano array for textile dye degradation

报告时间: 10 月 13 日(周五)10:00-11:30

报告地点: 浙江大学紫金港校区环境与资源学院 B110 室

主办单位: 浙江大学环境过程研究所 (联系人: 林道辉, 88982582)

内容简介: One dimensional (1D) metal oxide and related core-shell structures, in particular ZnO nanowires/rods, ZnO/ZnS core/shell structures exhibit unique surface and optical properties interesting for light assisted degradation of toxic textile dyes. This lecture will explore the controlled synthesis of different nanostructures to enhance the dye degradation under natural sunlight, the light induced charge transport and photo assisted dye degradation, the fate of nanoparticles after the utilization, and the reusability of the nanocatalysts.

报告人简介: Dr. R. T. Rajendrakumar received his Ph.D. from department of physics, Bharathiar University, India in 2003. He worked as a postdoctoral fellow in Stockholm University (Sweden), Dublin City University (Ireland), and Technical University of Denmark from 2003 to 2008. He joined Bharathiar University as Reader in 2009. He is currently an associate professor at the Department of Nanoscience and Technology, Bharathiar University. His research focuses on the development of thin film based devices, carbon and metal oxide based nanomaterials for bio-chemical, UV and IR sensors. His research also includes usage of nanoparticles and large area nanoarray structures for industrial effluent degradation and heavy metal adsorption. He has published around 80 peer-reviewed papers and is editorial board members of Nature Scientific Reports and Heliyon. He is a Fellow of Academy of Sciences and recipient of DAE-BRNS Young Scientist Research Award, Best Faculty Award, and Outstanding Young Indians Award.



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