



"Titania Nanotubes for Energy, Environment and Sensor Applications"

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Course contents:

The proposed lecture deals with the fabrication of titania nanotubes using electrochemical anodization methods utilizing various electrolytes. The structure and morphology of nanotubes will be presented. The utilization of nanotubes for photoelectrochemical hydrogen generation, decomposition of organic contaminants and its utilization for sensor/sensing applications will be discussed

Syllabus of the lecture:

1. Synthesis of titania nanotube using electrochemical anodization method.
2. Characterization of Nanotubes
3. Photo electrochemical hydrogen generation
4. Decomposition of organic contaminants
5. Detection of Organic biomarkers
6. Detection of radiation
7. Nanotubes for biomedical applications

TERMINY WYKŁADÓW			
Data	Dzień tygodnia	Godzina	Sala
2014-10-06	poniedziałek	8-11	LUWR (Chemia A)
2014-10-07	wtorek	9-11	LUWR (Chemia A)
2014-10-08	środa	9-12.30	LUWR (Chemia A)
2014-10-09	czwartek	9-12.30	LUWR (Chemia A)
2014-10-10	piątek	9-12	LUWR (Chemia A)