SATU Presidents' Forum of South Asia and Talwan Universities 台灣與東南亞暨南亞大學校長論壇

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2016 SATU Joint Research Scheme Program Host Application Form

		Date		/04/16 (year/month/day)
1. Host Universit	y			
University of Ma	alaya			
2. Host Unit	4			
Nanotechnology	& Catalysis Research Co	entre (NA	ANOCA	AT)
3. Joint Research	Project Title			
Photocatalysis d	egradation of Azo Dye by	Hdyrog	enated	Titanium Dioxide
4. Principal Inves				
Passport Name	Assoc. Prof. Dr. Juan Joon Ching			
Nationality	Malaysia		Gender	☑ M □F
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5. Co-PI from th	e same unit – If any			
Passport Name	Dr Lai Chin Wei			
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6. Project Details				-
Project Description	the photocata absorption ar key factor tha	Hydrogenated TiO ₂ (H-TiO ₂) has drawn much research attention in the photocatalysis society since it is significantly improved solar absorption and enhanced photocatalytic activity. Nevertheless, the key factor that leads to the enhanced photocatalytic performance of H-TiO ₂ is still debatable. In order to clarify this issue, the structural		

properties of H-TiO₂ and their effects on photo-generated charges

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are investigated in this study. H-TiO₂ nanoparticles with different hydrogenation degree are synthesized through the flowing of purified H₂ gas at several elevated temperatures and their photocatalytic activities are evaluated by Reactive Black 5 (RB5) photodegradation. The hydrogenated TiO₂ nanoparticles treated at lower temperature with light gray colour have better photocatalytic activity compared to the dark gray H-TiO₂ with higher thermal hydrogenation degree, where it display much worse photocatalytic performance..

7. Acknowledgement (Signed by the President or SATU representative to show recognition)

Name title

PROFESSOR DR. NOORSAADAH ABD. RAHMAN

Deputy Vice-Chancellor (Research & Innovation) University of Malaya 50903 Kusia Lumpur

(signature) (yyyy/mm/dd)

Please email <u>satu@email.ncku.edu.tw</u> before 2016.4. 29(Fri.) for application with the subject line: < 2016 SATU JRS host application –School Name>. Thank you.