

## 2016 SATU Joint Research Scheme Program

### Host Application Form

Date: 105 / 04 / 28 (year / month / day)

#### 1. Host University

National Taipei University of Technology

#### 2. Host Unit

Institute of Molecular Science and Engineering

#### 3. Joint Research Project Title

Solar Cell Research

#### 4. Principal Investigator

Passport Name	Chaochin Su		
Nationality	ROC	Gender	<input type="checkbox"/> M <input checked="" type="checkbox"/> F
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#### 5. Co- PI from the same unit – If any

Passport Name			
Nationality		Gender	<input type="checkbox"/> M <input type="checkbox"/> F
Address			
Telephone	(Office)	(Home / Mobile)	
Fax Number		E-mail	

#### 6. Project Details

Project Description	The main objectives of this proposal were twofold. (i) morphological control and interface engineer of TiO <sub>2</sub> nanomaterials for high performance flexible photovoltaics (dye-sensitized solar cells (DSSCs) and perovskite solar cells (PSCs), (ii) design and synthesis rare earth metal-doped TiO <sub>2</sub> nanocomposite as an up-conversion luminescence materials which may be applied in counter electrode for DSSC and photoanode for PSCs. Deep investigation of the effects of luminescence phosphors on the photoelectric properties and the device lifetime related research will be carried out as well.
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#### 7. Acknowledgement (Signed by the President or SATU representative to show recognition)

Name	Chaochin Su		(signature)
title	Dean of R&D Center		
Date:	104 / 1 / 27	(yyyy/mm/dd)	

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