

# IP MARKETPLACE

## CONNECTING INNOVATION TO YOUR BUSINESS

### TECH OFFER

## METHOD FOR DEVELOPING PHOTOELECTRODE FROM NANOCOMPOSITE



### ▶ MORE INFORMATION

#### MEGA-TREND

- Urbanization
- SMART Cities and SMART Infrastructure
- Energy and Power

#### TECHNOLOGY READINESS LEVEL (TRL)

- TRL 4 (Lab Prototype - Lab Testing)

#### PATENT/ GRANTED NUMBER

- PI 2020001751

### ▶ TECHNOLOGY OVERVIEW

The present invention relates to a method for developing photo electrode from nanocomposite. The method comprising: preparing synthesized zinc oxide (ZnO) nanorod thin film; preparing synthesized Molybdenum disulfide (MoS<sub>2</sub>) nanoflakes; integrating the synthesized MoS<sub>2</sub> nanoflakes with argentine (Ag) nanocrystals and obtaining Ag/MoS<sub>2</sub> nanocomposite; mixing the Ag/MoS<sub>2</sub> nanocomposite with a binder and obtaining a substrate; and dip-coating ZnO nanorods into the substrate in step (d) and become photoelectrode.

### CONTACT US!

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