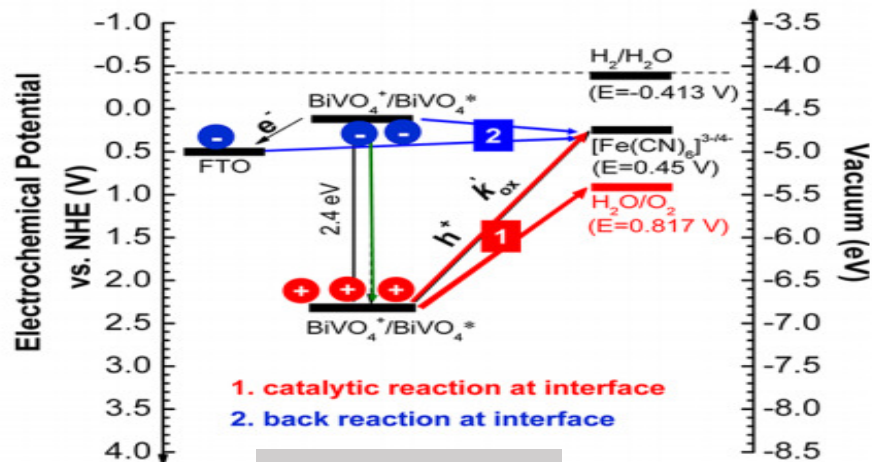
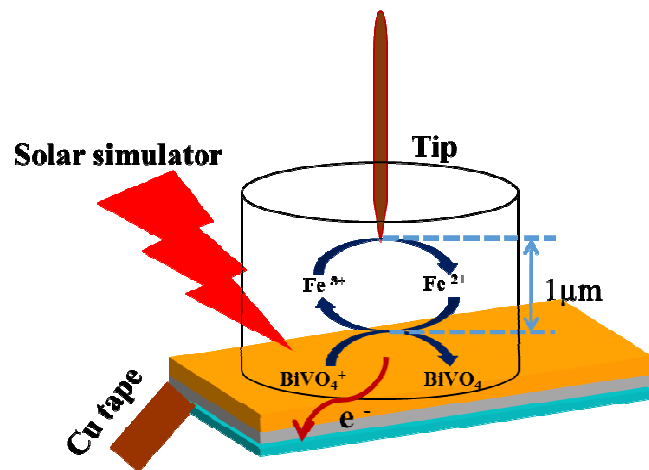


# Research on Photoelectrochemical water splitting using sun light



1. catalytic reaction at interface
2. back reaction at interface

Strategy used



Device fabricated for experiments

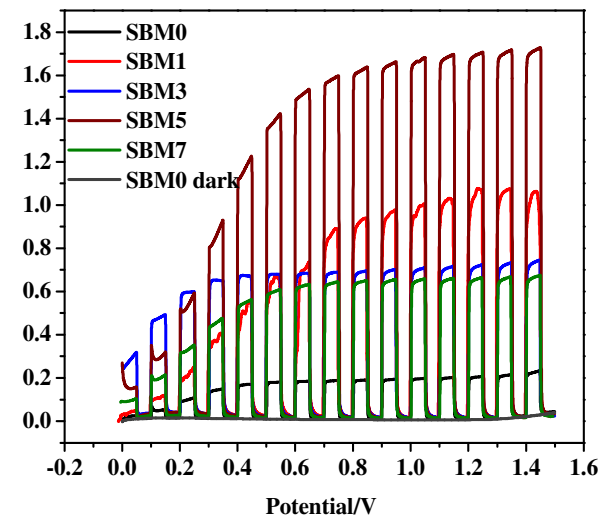
## Materials developed

- Modified bismuth vanadate, Cu, Fe, Co Ni oxides for the anode side
- Graphene, MoS<sub>2</sub>, Cu oxide for the cathode side

Developmental works are being carried out in design/fabrication of the prototype device for photoelectrochemical generation of hydrogen

## Representative publication

- RSC Adv., 2019, 9, 41368-41382
- Electrochimica Acta, 2019, 135467
- Applied Catalysis B: 246 (2019) 1
- ACS Omega, 2 (11), 7532–7545
- Chem Electro Chem 2017 (4) 2989
- Adv. Mat. Interf., 2016,1600632



anced photocurrent, modified bismuth vanadate samples with graphene interlayer