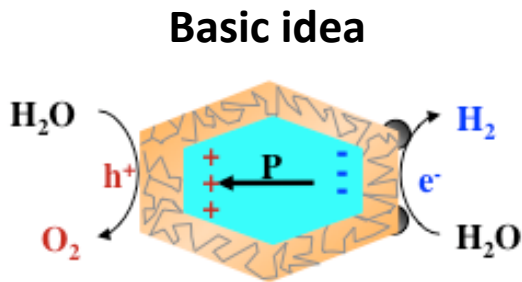


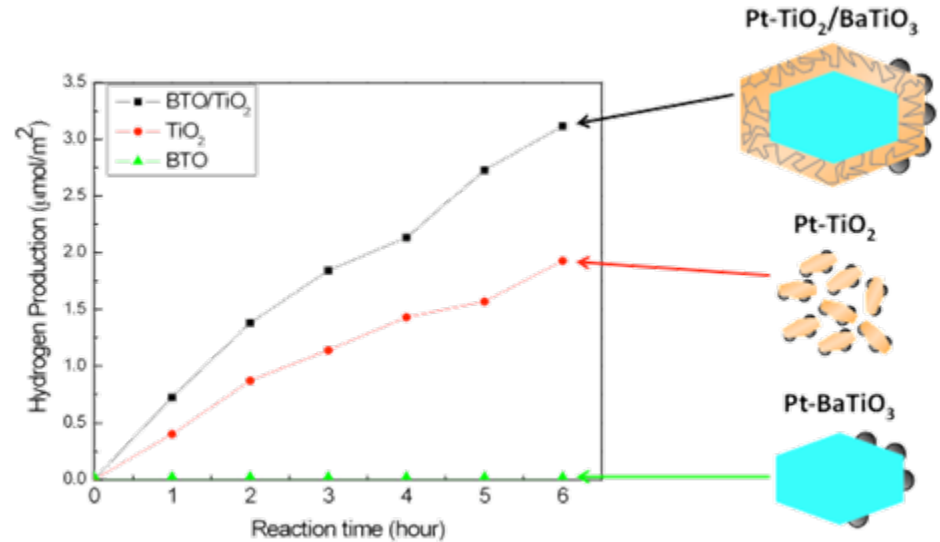
# Photochemical properties of titania/ferroelectric heterostructures

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- Titania can be used to make  $H_2$  by water photolysis.
- Ferroelectric substrates can be used to improve the properties of titania photocatalysts.
- Dipolar fields separate photogenerated electrons and holes, inhibiting recombination and increasing efficiency.

## Composite effect in hydrogen synthesis



## Visible light photoactivity by titania

