

TiO₂

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TiO₂ 가 , bandgap, , ,
 . TiO₂ rutile(tetragonal, space group: P4₂/mmm), anatase(tetragonal, space group: I4₁/amd), and brookite(orthorhombic, space group: Pbcn) 3가 가 .
 Rutile anatase 1972 Fujishima Honda가 TiO₂
 가 . brookite ,
 rutile anatase 가 .
 brookite TiO₂
 . TiO₂ , additive sheet,
 tube, wire, pyramidal 4가 morphologies 가 . morphologies SEM TEM
 wire anatase, pyramidal brookite XRD TEM SAED pattern sheet, tube,
 , brookite anatase photoelectrochemical photoelectrochemical