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Thermally stable TiO_2 quantum dots embedded in SiO_2 foams: characterization and photocatalytic H_2 evolution activity

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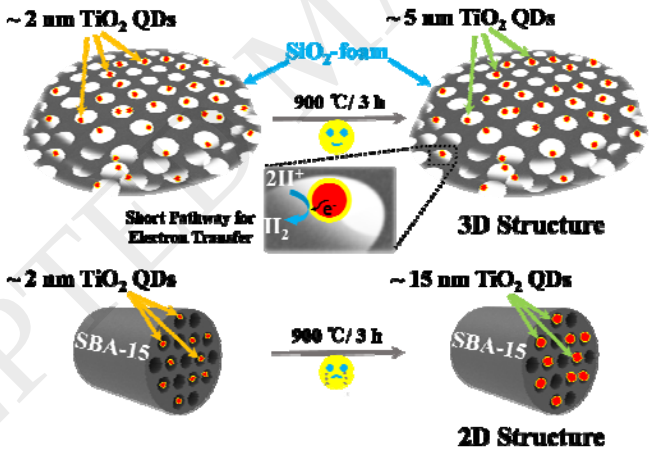
Graphical abstract



Highly dispersed and thermally stable TiO_2 quantum dots were anchored in the pore channels of SiO_2 foams for both inhibiting the aggregation of TiO_2-QDs and improving the phase transformation temperature from anatase to rutile, achieving a high photocatalytic activity for H_2 evolution.

Research highlights