A Novel One Step Synthesis of trans-1,4,6,9-tetraazabicyclo[4.4.0]decane over TiO$_2$/Zeolite Composite Photocatalysts

K. V. Subba Rao, B. Srinivas, A. R. Prasad, and M. Subrahmanyam

A novel one step intermolecular cyclization of ethanol and ethylenediamine towards the formation of trans-1,4,6,9-tetraazabicyclo[4.4.0]decane (TAD) has been achieved for the first time over TiO$_2$/zeolite composite photocatalysts using solar/artificial light at ambient temperature.