

Abstract Submitted
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The role of interfacial effects on enhanced catalytic performance of TiO₂-graphene nanocomposites¹ DINKO CHAKAROV, RAJA SELLPAN, Chalmers University of Technology, Department of Applied Physics — Graphene-containing TiO₂ nanocomposites have significantly higher photocatalytic activity compared to bare TiO₂ films. The enhancement is result of improved transport and higher efficiency of the charge carries separation at carbon-TiO₂ interface. These effects were assessed by comparison of six anatase-graphene structures, fabricated by different synthesizing techniques and referenced to the performance of TiO₂-graphitic-carbon and TiO₂-Au thin films.

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