



A gold-containing TiO complex: a crystalline molecular precursor as an alternative route to Au/TiO₂ composites

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A molecular gold-containing TiO complex as a precursor for a bottom-up access of Au/TiO₂. The synthesized and characterized crystalline complex AuCl₄(NH₄)₇[Ti₄(O₂)₄(Hcit)₂(cit)₂]₁₂H₂O 1 decomposed to a pure Au/TiO₂ material under mild photochemical conditions as well as under thermic conditions.