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## Effects of Combinational Doping on the Phase Transformation of Nano Titanium Dioxide

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## Abstract content <br> &nbsp; (Max 300 words)

Single and double doped nanometric powders of TiO<sup>II</sup> were synthesised by the sol-gel process using titanium isopropoxide as the precursor. The metal dopants used were Ag and Cu. In order to investigate the TiO<sup>II</sup> phase transformation, the samples were calcined at various temperatures and then characterised by XRD, Raman and SEM techniques. The results suggests that the co-doped TiO<sup>II</sup> powders are constituted by anatase and brookite phases while in the case of pure and singly doped samples only anatase is observed. The co-existence of brookite with anatase in the co-doped sample is thought to be responsible for the enhancement of anatase to rutile transformation.

## Apply to be<br> considered for a student <br> &nbsp; award (Yes / No)?

No

## Main supervisor (name and email)<br>and his / her institution

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Would you like to <br> submit a short paper <br> for the Conference <br> Proceedings (Yes / No)?

No

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