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Effect of gamma radiation on the photocatalytic properties of Cu doped titania nanoparticles

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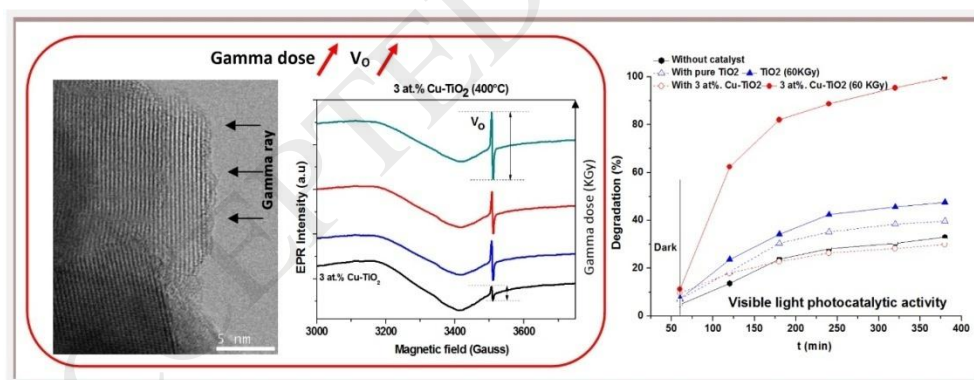
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Graphical abstract



Highlights

- ✓ Defective Cu doped TiO₂ powders were prepared by sol-gel route and gamma treatment
- ✓ Nanoscale analysis show evidence of internal doping by Cu²⁺ in the TiO₂ sublattice
- ✓ Catalyst surfaces defect sites improve significantly the photocatalytic efficiency

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