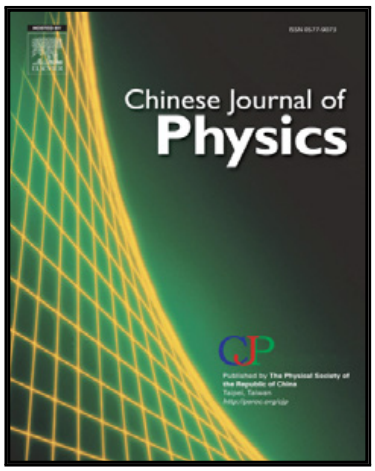

RTFM, RTPL and photocatalytic activity of CeO_2/ZrO_2 nanocomposites

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Highlights

- Oxygen vacancies of both CeO_2 and ZrO_2 nanostructures are main cause for RTFM.
- RTPL studies revealed the strong emission in UV and visible region due to excitons and F centers.
- By varying the pH the crystallite size can be controlled.
- High degradation achieve under UV light rather than visible light.