## **Accepted Manuscript**

Defect states and room temperature ferromagnetism in cerium oxide nanopowders prepared by decomposition of Ce-propionate

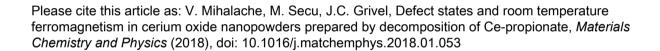
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## ACCEPTED MANUSCRIPT

Cerium oxide nanopowders were produced by decomposition of Ce-propionate All samples show RTFM and a broad defect-related photoluminescence emission Sources for defects/oxygen vacancies potential to induce RTFM were identified RTFM was improved by annealing the nanoceria containing Ce2O2CO3 traces Decomposition of  $Ce_2O_2CO_3$  at the GBs/surfaces gives an excess of oxygen vacancies

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