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Preface

Recent progress in catalysis by ceria and related compounds

The use of CeO_2 -based materials in catalysis have attracted considerable attention in the last years, especially in those applications, like environmental catalysis, where ceria has shown a great potential. The Guest Editors of this issue of *Catalysis Today* decided that it would have been appropriate to bring together in a single volume several papers dedicated to the recent advancements in this field. We have tried to bring together papers from several laboratories around the world which are representative of the research carried out on this topic. Eighteen papers are presented from 25 laboratories: seven from United States (Warren, Dearborn, Detroit, MI; Philadelphia, PA; Medford, MA, Cranbury, NJ, Argonne, IL), four from Japan (Kyoto, Gifu, Osaka, Shiga), and 13 from Europe

(Cadiz, Sp; Milano, Trieste, Udine, I; Caen, Lardi, La Rochelle, Poitiers, St Etienne, Strasbourg, Ville-neuve d'Ascq, Villeurbanne, Fr; Cork, Ir; Wroclaw, DL;). The work presented is divided into three topics: (i) characterization of CeO_2 -based catalysts, (ii) ceria in auto-exhaust catalysis, and (iii) other catalytic applications of ceria, and within each topic, a review paper is presented. We hope that, although not exhaustive, the volume will give an overview of some of the most important issues in this field, and we hope you enjoy reading it. Also a special thanks to all the contributors to this volume, and all the referees who helped us in the reviewing procedure.

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