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Nota di contenuto	Front Cover; Catalysis by Materials With Well-Defined Structures; Copyright; CONTENTS; CONTRIBUTORS; PREFACE; ACKNOWLEDGMENTS; Chapter 1 - Surface Chemistry and Catalytic Properties of Well-Defined Cu ₂ O Nanocrystals; 1. INTRODUCTION; 2. SYNTHESIS OF WELL-DEFINED CU ₂ O NANOCRYSTALS; 3. SURFACE COMPOSITION/STRUCTURE OF WELL-DEFINED CU ₂ O NANOCRYSTALS; 4. SURFACE CHEMISTRY OF WELL-DEFINED CU ₂ O NANOCRYSTALS; 5. CATALYTIC PROPERTY OF WELL-DEFINED CU ₂ O NANOCRYSTALS; 6. SUMMARY AND OUTLOOK; ACKNOWLEDGMENTS; REFERENCES; Chapter 2 - Ceria Nanoshapes- Structural and Catalytic Properties; 1. INTRODUCTION 2. SYNTHESIS AND MORPHOLOGY OF CERIA NANOSHAPES3. INFRARED SPECTROSCOPY OF ADSORBED SPECIES ON CERIA NANOSHAPES; 4. WGS REACTIVITY MEASUREMENTS; 5. SUMMARY; ACKNOWLEDGMENTS; REFERENCES; Chapter 3 - The Characterization and Structure- Dependent Catalysis of Ceria with Well-Defined Facets; 1. INTRODUCTION; 2. CHARACTERIZATION OF SIZE- AND STRUCTURE- DEPENDENT PROPERTIES OF CEO ₂ NANOPARTICLES; 3. HETEROGENEOUS CATALYSIS REACTIONS ON NANOSHAPED CEO ₂ ; 4. FUTURE DIRECTIONS; 5. CONCLUSIONS; ACKNOWLEDGMENTS; REFERENCES

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