



Structure and Reactivity of Metals in Zeolite Materials [

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ed. lit

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ed. lit

Springer International Publishing,

2018

Chemistry, inorganic

Chemistry, Physical organic

Catalysis

Chemistry

Materials

Chemical engineering

Inorganic Chemistry

Physical

Chemistry

Theoretical and Computational Chemistry

Structural Materials

Industrial Chemistry/Chemical Engineering

Monografía

This volume provides the reader with the most up-to-date and relevant knowledge on the reactivity of metals located in zeolite materials, either in framework or extra-framework positions, and the way it is connected with the nature of the chemical environment provided by the host. Since the first report of the isomorphous substitution of titanium in the framework of zeolites giving rise to materials with unusual catalytic properties, the incorporation of many other metals have been investigated with the aim for developing catalysts with improved performance in different reactions. The continuous expansion of the field, both in the variety of metals and zeolite structures, has been accompanied by an increasing focus on the relationship between the reactivity of metal centers and their unique chemical environment. The concepts covered in this volume are of interest to people working in the field of inorganic and physical chemistry, catalysis and chemical engineering, but also for those more interested in theoretical approaches to chemical reactivity. In particular the volume is useful to postgraduate students conducting research in the design, synthesis and catalytic performance of metal-containing zeolites in both academic and application contexts

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Título: Structure and Reactivity of Metals in Zeolite Materials [Recurso electrónico] edited by Joaquín Pérez Pariente, Manuel Sánchez-Sánchez

Editorial: Cham Springer International Publishing 2018

Descripción física: IX, 309 p

Mención de serie: Structure and Bonding 178

ISBN: 9783319989051 9783319989044 9783319989068 9783030075460

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