

Table of Contents

Preface

The Porosity Dependence of Physical Properties of Materials: A Summary Review R.W. Rice	1
The Characterization of Porous Solids from Gas Adsorption Measurements C.K. Lee, A.S.T. Chiang and C.S. Tsay	21
Critical Factors in the Production of Sol-Gel Derived Porous Alumina R.B. Bagwell and G.L. Messing	45
Processing of Porous Oxide Ceramics D.A. Hirschfeld, T.K. Li and D.M. Liu	65
Synthesis and Characterization of Gas Permselective Alumina Membranes T.C. Huang and H.I. Chen	81
Studies on the Control of Porous Properties in the Fabrication of Porous Support W.J. Chao and K.S. Chou	93
Porous Silica by the Sol-Gel Process L.C. Klein and R.H. Woodmann	109
Present Status and Future Potential of Preparation of Porous Glass and its Applications T. Yazawa	125
Porous Glass: Preparation and Properties S. Morimoto	147
Preparation of Microporous Material from Cordierite by Acid Treatment H. Abe, H. Tsuzuki, A. Fukunaga, H. Tateyama and M. Egashira	159
Porosification Effect on Electroceramic Properties H.T. Sun, C. Cantalini and M. Pelino	167
Ceramic Semiconductors for Gas Detection K. Patel and H.T. Sun	181
In-Vivo Evaluation of Porous $\text{Ca}_2\text{P}_2\text{O}_7$ with Sodium Phosphate Addition in Orthopaedics F.H. Lin, C.C. Lin, H.C. Liu and C.Y. Wang	191
Porous Hydroxyapatite Bioceramics D.M. Liu	209
The Histological Observation of the Early Osteogenesis Induced in Porous Calcium Phosphate Ceramics in Muscular Tissue of the Dogs W.Q. Chen, S.X. Qu, Z.J. Yang, X.D. Zhang and M.Q. Yuan	233