

# Table of Contents

## Preface

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