

Table of Contents

Preface

Charge Transport in Energy Storage and Conversion Devices

V. Döge and Á.W. Imre 1

The Thermal Conductivity of Magnesite, Dolomite and Calcite as Determined by Molecular Dynamics Simulation

L. Momenzadeh, B. Moghtaderi, X.F. Liu, S.W. Sloan, I.V. Belova and G.E. Murch 18

Monte Carlo Simulation of Correlation Effects in a Random SC Alloy via Interstitialcy Mechanisms

F. Hergemöller and N.A. Stolwijk 35

Diffusion and Equilibration of Site-Preferences Following Transmutation of Tracer Atoms

G.S. Collins 61

Diffusion and its Application in NiMnGa Alloys

L. Zhou and Y.H. Sohn 80

Transport-Optimized Nanoporous Materials for Mass Separation and Conversion as Designed by Microscopic Diffusion Measurement

J. Kärger and R. Valiullin 96