

Table of Contents

Synthesis and Structural Properties of Zirconia-Based Nanocrystalline Powders and Fine-Grained Ceramics R.E. Juárez, D.G. Lamas, G.E. Lascalea and N.E. Walsøe de Reca	1
Optical Properties of Hydrogenated Amorphous Silicon Carbide Films W.K. Choi	29
Structures and Optical Properties of Defects Correlated with Photo-Induced Refractive Index Changes in Ge-Doped SiO₂ Glass M. Fujimaki and Y. Ohki	43
Li Intercalation in Zirconium Dioxide Films A.K. Jonsson, M. Strømme Mattsson and G.A. Niklasson	51
Analysis of Diffusion Mechanisms in Ni₃Al, Ni₃Ge and Ni₃Ga I.V. Belova and G.E. Murch	59
Molecular Dynamics Simulation for Self Diffusion in GaAs P. Murugan and K. Ramachandran	69
Abstracts	1