

Table of Contents

Microstructural Effect on the Rehealing Ability of Sputtered K38G Nanocrystalline Coating G.F. Chen and L.C. Zhang	1
Effects of Ti Hydride on Mechanical Alloying of Ti-Aluminides M. Bououdina and Z.X. Guo	9
Li Storage Properties of Carbon Nanotubes Prepared by Chemical Vapour Deposition G.X. Wang, J. Yao, M. Lindsay, Y. Chen, H.K. Liu, S.H. Ryu and J.H. Ahn	18
From High-Energy Ball-Milling to Surface Properties of TiO₂ Powders S. Bégin-Colin, G. Le Caër, F. Villieras, X. Devaux, M.O. Simonnot, T. Girot and P. Weisbecker	27
Residual Gas Effect on the Structural and Magnetic Properties of Fe₆₀Cr₄₀ Alloy Synthesised by Mechanical Alloying A. Fnidiki, C. Lemoine and J. Teillet	37
Rotational Deformation Mechanism in Fine-Grained Materials Prepared by Severe Plastic Deformation M.Y. Gutkin, A.L. Kolesnikova, I.A. Ovidko and N.V. Skiba	47
Nanoparticles and Thin Films of Cerium Dioxides: Relations between Elaboration Process and Microstructure S. Villain, C. Leroux, J. Musso, J.R. Gavarri, A. Kopia, M. Klimczak and J. Kusinski	59
Hf- and Zr-Based Bulk Metallic Glasses with Large Supercooled Liquid Region J. Uriarte, D.V. Louzguine-Luzgin and A.R. Yavari	73
Casting and Phase Transformations of Fe_{65.5}Cr₄Mo₄P₁₂C₅B_{5.5} Bulk Metallic Glass M. Stoica, J. Eckert, S. Roth, L. Schultz, A.R. Yavari and Å. Kvick	77
Preparation and Magnetic Properties of Ball-Milled and Subsequently Hot Pressed Fe₇₇Al_{2.14}Ga_{0.86}P_{8.4}C₅B₄Si_{2.6} Bulk Metallic Glass J. Degmová, S. Roth, J. Eckert and L. Schultz	85
Synthesis of Binary Mg-Based Alloys by Mechanical Alloying G.X. Liang and R. Schulz	93
Microstructure and Magnetotransport Properties of Nanocrystalline Laser Processed Co-Ag Films E. Agostinelli, D. Fiorani, S. Foglia, S. Kaciulis, A.M. Testa and M. Vittori Antisari	111
Effect of the Milling Energy on the Milling-Induced hcp-fcc Cobalt Allotropic Transformations J. Sort, N.M. Mateescu, J. Nogués, S. Suriñach and M.D. Baró	126