

Contents

Review Papers

- Local electron microanalysis in microprobe and electron microscopes *V. Starý* 163

Papers

- Microstructural Investigation of Hard Metals by combination of Electron Backscatter Diffraction and X-ray Diffraction *M. Dopita, D. Rafaja, H. J. Seifert, D. Janisch, and W. Lengauer* 169

- The exploitation of X-ray diffraction in characterization of strength of hot-rolled and cold-drawn ferritic-pearlitic steel *D. Šimek, D. Rafaja, M. Motylenko, V. Klemm, C. Ullrich, A. Oswald, R. Schmidtchen and G. Lehmann* 178

- Study of zirconium based alloys by neutron diffraction *M. Krůželová, S. Vratislav, M. Dlouhá* 184

- High-energy milling induced calcite to aragonite transformation in eggshell *A. Zorkovská, P. Baláž* 188

- Cobalt based ferromagnetic shape memory alloy *J. Kopeček, M. Jarošová, K. Jurek, J. Drahokoupil, I. Kratochvílová, L. Fekete, L. Bodnárová, H. Seiner, P. Sedlák, M. Landa, J. Šepitka, J. Lukeš, O. Heczko* 191

- Study of Mn interstitials in (Ga,Mn)As using HRXRD *L. Horák, J. Matějová, X. Martí, V. Holý, V. Novák, Z. Šobáň, S. Mangold, and F. Jimenez-Villacorta* 194

- X-ray diffraction analysis of surface Si nanostructures used for Ge nanoheteroepitaxy *J. Matějová, G. Kozłowski, P. Zaumseil, V. Holý, T. Schröder* 199

- X-ray Laue diffraction study of oxygen precipitates in Czochralski silicon *J. Růžička, O. Caha and M. Meduňa* 204

- Structural studies of titania nanotubes *T. Brunátová, D. Popelková, S. Daniš, M. Šlouf, R. Kužel* 209

- Preparation and analysis of Fe-Zr, Fe-Ti, and Fe-V composites for hydrogen storage *P. Roupcová, O. Schneeweiss* 212

Laboratories

- The past and presence of protein crystallography at the Institute of Molecular Biology of the Slovak Academy of Sciences *J. Ševčík* 214

- X-ray Diffraction in U. S. Steel Košice Research Laboratories for Phase Analysis, Texture and Residual Stress Estimation *M. Černík, I. Kohútek, A. Leško* 221

- Crystallography at the Institute of Inorganic Chemistry of the Slovak Academy of Sciences, Bratislava *L. Smrčok, D. Gyepesová, S. Ďurovič* 227

Czech and Slovak Crystallographic Association 2008-2011

- R. Kužel, J. Hašek, I. Kutá Smatanová* 229

- Contents** 245

- Author Index** 246