

[XV International Conference on Electron Microscopy](#)

Selected, peer reviewed papers presented at the XV International Conference on Electron Microscopy
EM2014, 15-18 September 2014, Kraków, Poland

Bearbeitet von
Beata Dubiel

1. Auflage 2015. Taschenbuch. 200 S. Paperback
ISBN 978 3 03835 468 0

[Weitere Fachgebiete > Technik > Werkstoffkunde, Mechanische Technologie > Werkstoffkunde, Materialwissenschaft: Forschungsmethoden](#)

schnell und portofrei erhältlich bei


DIE FACHBUCHHANDLUNG

Die Online-Fachbuchhandlung beck-shop.de ist spezialisiert auf Fachbücher, insbesondere Recht, Steuern und Wirtschaft. Im Sortiment finden Sie alle Medien (Bücher, Zeitschriften, CDs, eBooks, etc.) aller Verlage. Ergänzt wird das Programm durch Services wie Neuerscheinungsdienst oder Zusammenstellungen von Büchern zu Sonderpreisen. Der Shop führt mehr als 8 Millionen Produkte.

Table of Contents

Editors'note, Organizers, International Scientific Committee, Sponsors, Exhibitors and Conference Photo	
Recrystallization Behaviour of Plane Strain Deformed Al-Mn-Mg-Sc-Zr Alloy M.M. Miszczyk and H. Paul	1
Mechanical and Structural Characterization of Rapidly Solidified Al-Fe-Mg Alloys A. Kula, L. Blaz, P. Kusper and M. Sugamata	11
Influence of Sr-Doping on the Structure of LaCoO₃ Thin Films Prepared by Pulsed Laser Deposition A. Kopia, Ł. Cieniek, K. Kowalski and J. Kusiński	19
Effect of the Electron Energy on the Structural Evolution of Functional Perovskite La_{0.6}Ca_{0.4}CoO₃ Thin Films Produced by the Pulsed Electron Deposition (PED) Technique Ł. Cieniek	25
Effect of Hydrogen on the Corrosion of Rare Earth-Containing Magnesium Alloys in Sodium Sulfate Solution A. Mościcki, B. Chmiela and M. Sozańska	33
Application of Electron Microscopy to Investigation of Corrosion of Mg-Al Alloys in Various Electrolyte Solutions B. Chmiela, A. Mościcki and M. Sozańska	41
Microstructural Features of Cu-Zn Single Crystals Deformed at Elevated Temperature B. Grzegorezyk, W. Ozgowicz, E. Kalinowska-Ozgowicz and A. Kowalski	49
Shape, Size and Distribution of Metal Particles Embedded in a Ceramic Matrix K. Konopka	57
Electron Microscopy Investigation of Cast Aluminium Alloy after Laser Feeding with Ceramic Powder K. Labisz, T. Tanski, J. Konieczny, M. Pawlyta and E. Jonda	65
The Effect of Additions of Zn and Zr on the Microstructure and Texture of Cast and Wrought Mg Alloys with Different Content of Ca S. Boczekal, M. Lech-Grega and J. Żelechowski	73
Characterization of Precipitates in 3xxx Series Alloys with Zirconium M. Bigaj, S. Boczekal, M. Mitka, Z. Zamkotowicz, J. Żelechowski and M. Gawlik	81
Morphology of Tungsten Growth Forms in Quasicrystalline Al₆₅Cu₂₀Fe₁₄W Alloys W. Gurdziel, J. Krawczyk, W. Bogdanowicz and G. Dercz	87
Electron Microscopy Characterization of Friction Stir Welded 5083-H111 and 7075-T651 Aluminum Alloys I. Kalemba and M. Kopyściański	93
TEM Investigations of the Microstructure of 7CrMoVTiB10-10 Steel Weld Metal K. Pańcikiewicz and A. Zielińska-Lipiec	101
Pad Welding of Inconel 625 Layer on Structural Steel Used in the Power Industry W. Osuch, G. Michta and A. Kruk	107
Electron Microscopy Investigation of Inconel 625 Weld Overlay on Boiler Steel P. Petrzak, M. Blicharski, S. Dymek and M. Solecka	113
The Microstructure of Weld Overlay Ni-Base Alloy Deposited on Carbon Steel by CMT Method M. Solecka, P. Petrzak and A. Radziszewska	119
Application of Scanning Electron Microscopy and EDS Microanalysis for Microstructural Investigation of Hypoeutectoid Steel E. Roźniata and D. Zasada	125
Microstructural Investigations of Cracks in Turbine Wheels in Car Engine Turbochargers S. Krawiec and Ł. Krawczyk	133
Application of Peltier Cooling Device in a Variable-Pressure SEM A. Wassilkowska and T. Woźniakiewicz	139
Scanning Electron Microscopy in the Studies of Hydrated Cementitious Materials Microstructure Formed in the Presence of some Heavy Metals Containing Admixtures W. Nocuń-Wczelik and B. Trybalska	145