

Publications 2011

Benson, M. L.; Reetz, B.; Liaw, P. K.; Reimers, W.; Choo, H.; Brown, D. W.; Saleh, T. A.; Klarstrom, D. L.:

Phase-transformation and subgrain-deformation characteristics in a cobalt-based superalloy

Materials Science and Engineering, A 528, (2011), pp. 1987-1993

Brömmelhoff, K.; Huppmann, M.; Reimers, W.:

The effect of heat treatments on the microstructure, texture and mechanical properties of the extruded magnesium alloy ME21

International Journal of Materials Research, 102, 9, (2011), pp. 1133-1141

Epishin, A.; Link, T.; Ulbricht, A.; Zizak, I.; Bansal, M.:

Synchrotron measurement of the 3D shape of X-ray reflections from the gamma/gamma'-microstructure of nickel-base superalloys

International Journal of Materials Research, 102, 12, (2011), pp.1452-1458

Epishin, A.I.; Svetlov, I.L.; Petrushin, N.V.; Loshchinin, Yu V., Link, T.:

Segregation in Single-Crystal Nickel-Base Superalloys

Defect and Diffusion Forum, Vols 309-310, (2011), pp. 121-126

Gall, S.; Müller, S.; Reimers, W.:

Microstructure and mechanical properties of magnesium AZ31 sheets produced by extrusion

International Journal of Materials Forming, August, (2011),

DOI 10.1007/s12289-011-1069-0

Gall, S.; Müller, S.; Reimers, W.:

Extrusion of magnesium sheets with increased width

Steel Research International, Special Edition: 10th International Conference on Technology of Plasticity - ICTP, (2011), pp. 286-290

Huppmann, M; Lentz, M.; Chedid, S.; Reimers, W.:

Analyses of deformation twinning in the extruded magnesium alloy AZ31 after compressive and cyclic loading

Journal of Materials Science, 46, (2010), pp. 938-950

Link, T.; Epishin, A.; Paulisch, M.; May, T.:

Topography of semicoherent gamma/gamma'-interfaces in superalloys: Investigation of the formation mechanism

Materials Science and Engineering, A 528, 19-20, (2010), pp. 6225-6234

Meixner, M.; Fitzpatrick, M. E.; Reimers, W.:

Measurement of the evolution of internal strain and load partitioning in magnesium hybrid composites under compression load using in-situ synchrotron X-ray diffraction analysis

Composites Science and Technology, 71, (2011), pp. 167-176

Oddershede, J.; Schmidt, S.; Poulsen, H.F.; Margulies, L.; Wright, J.; Moscicki, M.; Reimers, W.; Winther, G.:

Grain-resolved elastic strains in deformed copper measured by three-dimensional X-ray diffraction

Materials Characterization, 62, (2011), pp. 651-660

Staron, P.; Fischer, T.; Lippmann, T.; Stark, A.; Daneshpour, S.; Schnubel, D.; Uhlmann, E.; Gerstenberger, R.; Camin, B.; Reimers, W.; Eidenberger, E.; Clemens, H.; Huber, N.; Schreyer, A.:

In situ experiments with synchrotron high-energy X-rays and neutrons

Advanced Engineering Materials, 13, 8, (2011), pp. 658-663

Uhlmann, E.; Gerstenberger, R.; Herter, S.; Hoghé, T.; Reimers, W.; Camin, B.; Martins, R.V.; Schreyer, A.; Fischer, T.:

In situ strain measurement in the chip formation zone during orthogonal cutting

Production Engineering Research Development, 5, 1, (2011), pp. 1-8