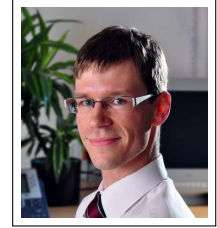


Markus Orthaber

Institut für Mechanik
Montanuniversität Leoben
Franz-Josef-Str. 18
8700 Leoben, Austria
☎ +43 (0)3842 402-4005

✉ markus.orthaber@unileoben.ac.at



Reviewed Publications

M. Orthaber, T. Antretter, and H.-P. Gänser, *On the selection of active slip systems in rate independent crystal plasticity*, *Key Engineering Materials* **554-557** (2013) 1147–1156.

M. Orthaber, T. Antretter, and H.-P. Gänser, *Maximum Dissipation Crystal Plasticity - an approach to select active slip systems*, *Proceedings of CM13 - an International Conference on Computational Mechanics* (2013) .

M. Orthaber, T. Antretter, H.-P. Gänser, and W. Ecker, *Active Slip Systems in Crystal Plasticity and the Principle of Maximum Dissipation*, *Proceedings of the 5th International Conference from "Scientific Computing to Computational Engineering"* **1** (2012) 36–41.

A. Ishmurzin, W. Ecker, M. Krobath, M. Orthaber, S. Marsoner, and T. Antretter, *The cyclic elasto-viscoplastic behavior of a high-speed steel under forging conditions - Experiments and simulations*, *Procedia Engineering* **10** (2011) 1991–1996.

M. Orthaber, F. Hebenstreit, and R. Alkofer, *Momentum spectra for dynamically assisted Schwinger pair production*, *Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics* **698** (2011) no. 1, 80–85.

Conference Presentations

M. Orthaber, *On the selection of active slip systems in rate independent crystal plasticity* @ 16th annual conference on material forming (ESAFORM2013), Aveiro, Portugal, 22 - 24 April 2013

M. Orthaber, *Maximum Dissipation Crystal Plasticity - an approach to select active slip systems* @ CM13 - an International Conference on Computational Mechanics, Durham, UK, 25 - 27 March 2013

M. Orthaber, *Crystal Plasticity using the Principle of Maximum Dissipation* @ 8th European Solid Mechanics Conference (ESMC-2012), Graz, Austria, 9 - 13 July 2012

M. Orthaber, *Active Slip Systems in Crystal Plasticity and the Principle of Maximum Dissipation* @ 5th International Conference from Scientific Computing to Computational Engineering, Athens, Greece, 4 - 7 July 2012

Attended Workshops

Plasticity and Beyond: Microstructures, Crystal-Plasticity and Phase Transitions @ International Center for Mechanical Sciences (CISM), Udine, Italy, 27 June - 1 July 2011

HoW exciting! Hands-on workshop on excitations in solids employing the EXC!TiNG code @ CECAM-HQ-EPFL, Lausanne, Switzerland, 11 - 17 November 2010