PAPERS

045001  A computational study of interfaces in WC-Co cemented carbides
Martin V. G. Petisme, Sven A. E. Johansson and Göran Wahnström

045002  Calculations of lattice vibrational mode lifetimes using Jazz: a Python wrapper for LAMMPS
Y Gao, H Wang and M S Daw

045003  Stochastic modeling and predictive simulations for the microstructure of organic semiconductor films processed with different spin coating velocities
D Westhoff, J J van Franeker, T Beretan, D P Kroese, R A J Jansen and V Schmidt

045004  Spatial decay of the phason field in quasicrystal linear elasticity
Paolo Maria Mariano and Luca Salvadori

045005  Multiscale deep drawing analysis of dual-phase steels using grain cluster-based RGC scheme
D D Tjahjanto, P Eisenlohr and F Roters

045006  Multiscale modeling of lattice dynamical instability in gamma-TiAl crystal
Kai Xiong, Xiaohui Liu and Jianfeng Gu

045007  An efficient numerical method for evolving microstructures with strong elastic inhomogeneity
Darae Jeong, Seunggyu Lee and Junseok Kim

045008  Fracture behavior of lithium single crystal in the framework of (semi-)empirical force field derived from first-principles
Sébastien Groh and Masud Alam

045009  Development of a grain boundary pinning model that considers particle size distribution using the phase field method
Sébastien Groh, Masud Alam

045010  The effect of deformation twinning on stress localization in a three dimensional TWIP steel microstructure
Vahid Tari, Anthony D Rollett, Haitham El Kadiri, Hossein Beladi, Andrew L Oppedal and Roger L King

045011  A combined crystal plasticity and graph-based vertex model of dynamic recrystallization at large deformations
Y Melibin, H Hallberg and M Ristimaa

045012  Simulation of the concomitant process of nucleation-growth-coarsening of Al12Cu17 particles in a 319 foundry aluminum alloy
R Martinez, D Larouche, G Cailletaud, I Guilhot and D Massin

045013  Development of interatomic potentials appropriate for simulation of devitrification of Al12Sm20 alloy
M I Mendelev, F Zhang, Z Ye, Y Sun, M C Nguyen, S R Wilson, C Z Wang and K M Ho

045014  Angular dependent potential for α-boron and large-scale molecular dynamics simulations
P Pokatashkin, A Kokoouin and A Yanikin

045015  Ab initio-based fracture toughness estimates and transgranular traction-separation modelling of zirconium hydrides
P A T Olsson, K Kese, M Kroon and A-M Alvarez Holston

Bibliographic codes
CODEN: MSMEEU 23 (4) 045001–045015 (2015)  ISSN: 0965-0393