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Materials science and characterization

Publications:

Characterization and influence of deformation microstructure heterogeneity on recrystallization

Godfrey, A., Mishin, O. V. & Yu, T. 2015 In : I O P Conference Series: Materials Science and Engineering. 89, 19 p., 012003

Publication: Research - peer-review › Conference article – Annual report year: 2015

Effects of interface roughness on the annealing behaviour of laminated Ti-Al composite deformed by hot rolling

Du, Y., Fan, G. H., Yu, T., Hansen, N., Geng, L. & Huang, X. 2015 In : I O P Conference Series: Materials Science and Engineering. 89, 7 p., 012021

Publication: Research - peer-review › Conference article – Annual report year: 2015

Evolution of microstructure and texture during recovery and recrystallization in heavily rolled aluminum

Mishin, O., Godfrey, A., Yu, T., Hansen, N. & Juul Jensen, D. 2015 In : I O P Conference Series: Materials Science and Engineering. 82, 4 p., 012083

Publication: Research - peer-review › Conference article – Annual report year: 2015

In situ observation of triple junction motion during recovery of heavily deformed aluminum

Yu, T., Hughes, D. A., Hansen, N. & Huang, X. 2015 In : Acta Materialia. 86, p. 269-278 10 p.

Publication: Research - peer-review › Journal article – Annual report year: 2015

Recovery by triple junction motion in heavily deformed metals

Yu, T., Hansen, N. & Huang, X. 2015 In : I O P Conference Series: Materials Science and Engineering. 89, 15 p., 012014

Publication: Research - peer-review › Conference article – Annual report year: 2015

Observation of a new dynamic recovery mechanism in the high strain regime

Yu, T., Hansen, N., Huang, X. & Godfrey, A. 2014 In : Risoe International Symposium on Materials Science. Proceedings. 35, p. 493-500

Publication: Research - peer-review › Conference article – Annual report year: 2014

Observation of a New Mechanism Balancing Hardening and Softening in Metals

Yu, T., Hansen, N., Huang, X. & Godfrey, A. 2014 In : Materials Research Letters. 2, 3, p. 160-165

Publication: Research - peer-review › Journal article – Annual report year: 2014

Particle stabilization of plastic flow in nanostructured Al-1 %Si Alloy

Huang, T., Li, C., Wu, G., Yu, T., Liu, Q., Hansen, N. & Huang, X. 2014 In : Journal of Materials Science. 49, 19, p. 6667-6673

Publication: Research - peer-review › Journal article – Annual report year: 2014

Structure and mechanical properties of nanostructured Al-0.3%Cu alloy

Wakeel, A., Huang, T., Wu, G., Yu, T., Hansen, N. & Huang, X. 2014 In : Risoe International Symposium on Materials Science. Proceedings. 35, p. 463-469

Publication: Research - peer-review › Conference article – Annual report year: 2014

Coupling of local texture and microstructure evolution during restoration processes in aluminum deformed to large strains

Hansen, N., Yu, T., Mishin, O. & Huang, X. 2013 In : Materials Science Forum. 753, p. 251-256

Publication: Research - peer-review › Conference article – Annual report year: 2013

Linking recovery and recrystallization through triple junction motion in aluminum cold rolled to a large strain

Yu, T., Hansen, N. & Huang, X. 2013 In : Acta Materialia. 61, 17, p. 6577-6586

Publication: Research - peer-review › Journal article – Annual report year: 2013

Triple junction motion - A new recovery mechanism in metals deformed to large strains

Yu, T., Hansen, N. & Huang, X. 2013 In : Materials Science Forum. 753, p. 485-488

Publication: Research - peer-review › Conference article – Annual report year: 2013

A model for recovery kinetics of aluminum after large strain

Yu, T. & Hansen, N. 2012 In : Materials Science Forum. 715-716, p. 374-379

Publication: Research - peer-review › Conference article – Annual report year: 2012

EBSD-based techniques for characterization of microstructural restoration processes during annealing of metals deformed to large plastic strains

Godfrey, A., Mishin, O. & Yu, T. 2012 In : Materials Science Forum. 715-716, p. 203-210

Publication: Research - peer-review › Conference article – Annual report year: 2012

Low temperature recovery mechanisms in nanostructured commercial purity aluminum

Yu, T., Hansen, N. & Huang, X. 2012 In : Risø International Symposium on Materials Science. Proceedings. 33, p. 391-397

Publication: Research - peer-review › Conference article – Annual report year: 2012

Recovery mechanisms in nanostructured aluminium

Yu, T., Hansen, N. & Huang, X. 2012 In : Philosophical Magazine (London, 2003). 92, 33, p. 4056–4074

Publication: Research - peer-review › Journal article – Annual report year: 2012

Recovery and recrystallization of nanostructured metals – mechanisms and kinetics

Yu, T., Huang, X. & Winther, G. 2011 Risø National Laboratory for Sustainable Energy. 139 p. (Risø-PhD; No. 79(EN)).

Publication: Research › Ph.D. thesis – Annual report year: 2012

Recovery by triple junction motion in aluminium deformed to ultrahigh strains

Yu, T., Hansen, N. & Huang, X. 2011 In : Royal Society of London. Proceedings A. Mathematical, Physical and Engineering Sciences. 467, 2135, p. 3039-3065

Publication: Research - peer-review › Journal article – Annual report year: 2011

Recovery by triple junction motion in aluminium deformed to ultrahigh strains

Yu, T., Hansen, N. & Huang, X. 2011

Publication: Research › Conference abstract for conference – Annual report year: 2011

Nanostructured metals: Fundamentals to applications: Proceedings of the 30th Risø International Symposium on Materials Science

Grivel, J-C. (ed.), Hansen, N. (ed.), Huang, X. (ed.), Juul Jensen, D. (ed.), Mishin, O. (ed.), Nielsen, S. F. (ed.), Pantleon, W. (ed.), Toftegaard, H. L. (ed.), Winther, G. (ed.) & Yu, T. (ed.) 2009 Roskilde: Danmarks Tekniske Universitet, Risø Nationallaboratoriet for Bæredygtig Energi. 436 p. (Risø International Symposium on Materials Science. Proceedings, Vol. 30).

Publication: Research - peer-review › Book – Annual report year: 2009

Recovery kinetics of commercial purity aluminium after large strain

Yu, T., Hansen, N., Huang, X. & Winther, G. 2009 In : Risø International Symposium on Materials Science. Proceedings. 30, p. 393-400

Publication: Research - peer-review › Conference article – Annual report year: 2009

Projects:

Recovery and recrystallisation of nanostructured metals - mechanisms and kinetics

Yu, T., Huang, X., Winther, G., Pantleon, W., Doherty, R. D. & Driver, J. H.

01/08/2008 → 23/05/2012

Project: PhD