Dorte Juul Jensen - DTU Orbit (04/02/2018)
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Department of Mechanical Engineering - Professor
Manufacturing Engineering
Materials science and characterization

Publications:

4D Study of Grain Growth in Armco Iron Using Laboratory X-ray Diffraction Contrast Tomography: Paper
Publication: Research - peer-review › Conference article – Annual report year: 2017

A method to characterize the roughness of 2-D line features: recrystallization boundaries
Publication: Research - peer-review › Journal article – Annual report year: 2016

Analysis of bearing steel exposed to rolling contact fatigue
Publication: Research - peer-review › Journal article – Annual report year: 2017

Boundary migration in a 3D deformed microstructure inside an opaque sample
Publication: Research - peer-review › Journal article – Annual report year: 2017

Direct observation of nucleation in the bulk of an opaque sample
Publication: Research - peer-review › Journal article – Annual report year: 2017

Fabricating interstitial-free steel with simultaneous high strength and good ductility with homogeneous layer and lamella structure
Publication: Research - peer-review › Journal article – Annual report year: 2017

Publication: Research - peer-review › Book – Annual report year: 2017

Quantification of deformation microstructure at ultra-low tensile strain in pure Al prepared by spark plasma sintering
Publication: Research - peer-review › Conference article – Annual report year: 2017

Roughness of grain boundaries in partly recrystallized aluminum
Publication: Research - peer-review › Journal article – Annual report year: 2016
Synchrotron X-ray measurement of residual strain within the nose of a worn manganese steel railway crossing
Publication: Research - peer-review › Journal article – Annual report year: 2017

Ultra-low-angle boundary networks within recrystallizing grains
Publication: Research - peer-review › Journal article – Annual report year: 2017

3D Characterization of Recrystallization Boundaries
Publication: Research - peer-review › Article in proceedings – Annual report year: 2017

Crystallographic Analysis of Nucleation at Hardness Indentations in High-Purity Aluminum
Publication: Research - peer-review › Journal article – Annual report year: 2016

Microstructural Analysis of Orientation-Dependent Recovery and Recrystallization in a Modified 9Cr-1Mo Steel Deformed by Compression at a High Strain Rate
Publication: Research - peer-review › Journal article – Annual report year: 2016

Nucleation of recrystallization at selected sites in deformed fcc metals
Publication: Research › Ph.D. thesis – Annual report year: 2017

Perspectives on Materials Science in 3D
Publication: Research - peer-review › Article in proceedings – Annual report year: 2017

Quantitative Characterization of Boundary Roughness in Metals
Publication: Research › Ph.D. thesis – Annual report year: 2017

A phase-field simulation study of irregular grain boundary migration during recrystallization
Publication: Research - peer-review › Conference article – Annual report year: 2015

Boundary Fractal Analysis of Two Cube-oriented Grains in Partly Recrystallized Copper
Publication: Research - peer-review › Conference article – Annual report year: 2015

Boundary migration during recrystallization: experimental observations
Publication: Research - peer-review › Conference article – Annual report year: 2015
Characterization of boundary roughness of two cube grains in partly recrystallized copper
Publication: Research - peer-review › Conference article – Annual report year: 2015

Dark field X-ray microscopy for studies of recrystallization
Publication: Research - peer-review › Conference article – Annual report year: 2015

Effects of structural heterogeneity of nanostructured copper on the evolution of the sizes of recrystallized grains during annealing
Publication: Research - peer-review › Conference article – Annual report year: 2015

Evolution of microstructure and texture during recovery and recrystallization in heavily rolled aluminum
Publication: Research - peer-review › Conference article – Annual report year: 2015

In-situ observations of nucleation in Al-0.1Mg
Publication: Research - peer-review › Conference article – Annual report year: 2015

Kinetics of individual grains during recrystallization of cold-rolled copper
Publication: Research - peer-review › Conference article – Annual report year: 2015

Local strain distributions in partially recrystallized copper determined by in situ tensile investigation
Publication: Research - peer-review › Conference article – Annual report year: 2015

Nucleation at hardness indentations in cold rolled Al
Publication: Research - peer-review › Conference article – Annual report year: 2015

Orientations of recrystallization nuclei developed in columnar-grained Ni at triple junctions
Publication: Research - peer-review › Conference article – Annual report year: 2015

Supercube grains leading to a strong cube texture and a broad grain size distribution after recrystallization
Publication: Research - peer-review › Journal article – Annual report year: 2015

Thermal stability of a highly-deformed warm-rolled tungsten plate in the temperature range 1100 °C to 1250 °C
Publication: Research - peer-review › Journal article – Annual report year: 2015
4D Characterization of Metal Microstructures
Publication: Research - peer-review › Book chapter – Annual report year: 2013

Annealing behaviour of a nanostructured Cu–45 at.%Ni alloy
Tian, H., Suo, H. L., Mishin, O., Zhang, Y., Juul Jensen, D. & Grivel, J-C. 2013 In : Journal of Materials Science. 48, 12, p. 4183-4190
Publication: Research - peer-review › Journal article – Annual report year: 2013

Danish Chinese Center for Nanometals - Annual report 2012
Publication: Communication › Report – Annual report year: 2013

Effects of widening during rolling on the subsequent recrystallization kinetics of copper
Publication: Research - peer-review › Conference article – Annual report year: 2013

Importance of Local Structural Variations on Recrystallization
Publication: Research - peer-review › Conference article – Annual report year: 2013

Kinetics of thermal grooving during low temperature recrystallization of pure aluminum
Publication: Research - peer-review › Conference article – Annual report year: 2013

Phase-field simulation study of the migration of recrystallization boundaries
Publication: Research - peer-review › Journal article – Annual report year: 2013

Recovery and recrystallization in commercial purity aluminum cold rolled to an ultrahigh strain
Mishin, O., Godfrey, A., Juul Jensen, D. & Hansen, N. 2013 In : Acta Materialia. 61, 14, p. 5354-5364
Publication: Research - peer-review › Journal article – Annual report year: 2013

Recrystallization of deformed copper - kinetics and microstructural evolution
Lin, F., Juul Jensen, D. & Panteon, W. 2013 DTU Wind Energy. 136 p. (DTU Wind Energy PhD; No. 0011(EN)).
Publication: Research › Ph.D. thesis – Annual report year: 2013

Studier af rekrystallisation med 3DXRD
Juul Jensen, D. 2013
Publication: Research › Sound/Visual production (digital) – Annual report year: 2013

Very strong nanometals and nanostructured surfaces
Juul Jensen, D. 2013
Publication: Research › Sound/Visual production (digital) – Annual report year: 2013

3D studies of coarserning kinetics of individual grains
Publication: Research › Ph.D. thesis – Annual report year: 2012
Boundary migration during recrystallization of heavily deformed pure nickel
Publication: Research - peer-review › Conference article – Annual report year: 2012

Characterization of nanometals
Publication: Research - peer-review › Conference abstract in proceedings – Annual report year: 2013

Danish Chinese Center for Nanometals - Annual report 2011
Publication: Communication › Report – Annual report year: 2012

Effects of Initial Parameters on the Development of Cube Texture during Recrystallization of Copper
Publication: Research - peer-review › Conference article – Annual report year: 2011

In-situ measurement of annealing kinetics of individual bulk grains in nanostructured aluminium
Publication: Research - peer-review › Journal article – Annual report year: 2012

Nanometals - Status and Perspective: Proceedings of the 33rd Risø International Symposium on Materials Science
Publication: Research - peer-review › Book – Annual report year: 2012

New 3DXRD results on recrystallization and grain growth
Publication: Research - peer-review › Conference article – Annual report year: 2012

Orientation changes during annealing of nanostructured aluminium
Publication: Research - peer-review › Conference article – Annual report year: 2012

Recrystallization kinetics of nanostructured copper processed by dynamic plastic deformation
Publication: Research - peer-review › Conference article – Annual report year: 2012

The influence of strain on annealing behaviour of heavily rolled aluminium AA1050
Publication: Research - peer-review › Conference article – Annual report year: 2012

The three dimensional X-ray diffraction technique
Publication: Research - peer-review › Journal article – Annual report year: 2012

Three-dimensional investigation of recrystallization nucleation in a particle-containing Al alloy
Publication: Research - peer-review › Journal article – Annual report year: 2012

Analysis of Orientation Relations Between Deformed Grains and Recrystallization Nuclei
Publication: Research - peer-review › Journal article – Annual report year: 2010
Publication: Research - peer-review › Book – Annual report year: 2011

Deformed metals - structure, recrystallisation and strength
Hansen, N. & Juul Jensen, D. 2011 In : Materials Science and Technology. 27, 8, p. 1229-1240
Publication: Research - peer-review › Journal article – Annual report year: 2011

Evolution of orientations and deformation structures within individual grains in cold rolled columnar grained nickel
Publication: Research - peer-review › Journal article – Annual report year: 2011

In situ measurements of growth rates and grain-averaged activation energies of individual grains during recrystallization of 50% cold-rolled aluminium
Publication: Research - peer-review › Journal article – Annual report year: 2011

In situ observation of boundary migration during recrystallization of pure aluminum cold-rolled to high strain
Zhang, Y. & Juul Jensen, D. 2011
Publication: Research › Poster – Annual report year: 2011

Local boundary migration during recrystallization in pure aluminium
Publication: Research - peer-review › Journal article – Annual report year: 2010

Recrystallization kinetics
Juul Jensen, D. 2011
Publication: Research › Conference abstract for conference – Annual report year: 2011

Recrystallization kinetics of 90% cold rolled copper with different initial grain sizes
Publication: Research › Conference abstract for conference – Annual report year: 2011

The influence of strain on annealing behaviour of heavily rolled aluminium AA1050
Mishin, O., Juul Jensen, D. & Hansen, N. 2011
Publication: Research › Conference abstract for conference – Annual report year: 2011

Towards an integrated materials characterization toolbox
Publication: Research - peer-review › Journal article – Annual report year: 2011

3D EBSD characterization of deformation structures in commercial purity aluminium
Fengxiang, L., Godfrey, A., Juul Jensen, D. & Winther, G. 2010 In : Materials Characterization. 61, 11, p. 1203-1210
Publication: Research - peer-review › Journal article – Annual report year: 2010

Alignment of serial sections for 3D microstructural characterization of cold rolled aluminum by EBSD
Challenges in materials science and possibilities in 3D and 4D characterization techniques. Proceedings of the 31st Risø International Symposium on Materials Science

Evolution of Microstructure and Texture during Annealing of Aluminum AA1050 Cold Rolled to High and Ultrahigh Strains

In-situ observations of migration of recrystallization boundaries in pure aluminium

Monitoring grain boundary migration during recrystallisation using topotomography

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Recrystallization in 3D and 4D

Recrystallization kinetics of 50% cold-rolled aluminum

3DXRD Characterization and Modelling of Recrystallization

Analysis of Deformation Structures in FCC Materials Using EBSD and TEM Techniques

Analysis of the growth of individual grains during recrystallization in pure nickel
Direct non-destructive observation of bulk nucleation in 30% deformed aluminum
Publication: Research - peer-review › Journal article – Annual report year: 2009

DXRD and Its Applications Leading to New Modelling
Publication: Research - peer-review › Article in proceedings – Annual report year: 2010

Effects of clustered nucleation on recrystallization
Publication: Research - peer-review › Journal article – Annual report year: 2009

Effects of strain on recrystallization of nickel metals and nanometals produced by heavy cold rolling
Publication: Research - peer-review › Conference article – Annual report year: 2009

Microstructural path model and strain dependence of recrystallisation in commercial aluminium
Publication: Research - peer-review › Journal article – Annual report year: 2009

Nanostructured metals: Fundamentals to applications: Proceedings of the 30th Risø International Symposium on Materials Science
Publication: Research - peer-review › Book – Annual report year: 2009

Time Evolution in 3D Metal Microstructures-Recrystallization
Publication: Research - peer-review › Journal article – Annual report year: 2009

3DXRD characterization and modeling of solid-state transformation processes
Publication: Research - peer-review › Journal article – Annual report year: 2008

Automatic determination of recrystallization parameters based on EBSD mapping
Publication: Research - peer-review › Journal article – Annual report year: 2008

Cube texture in heavily cold rolled pure nickel
Publication: Research - peer-review › Article in proceedings – Annual report year: 2008

Direct observation of 3-D grain growth in Al–0.1% Mn

Experimental quantification of nucleation

Molecular dynamics simulations of grain boundary migration during recrystallization employing tilt and twist dislocation boundaries to provide the driving pressure

Neutron and synchrotron X-ray studies of recrystallization kinetics

Structural parameters and annealing behaviour of heavily rolled aluminium

Three-dimensional geometric simulations of random anisotropic growth during transformation phenomena

Development of the cube texture at low annealing temperatures in highly rolled pure nickel

Effect of annealing temperature on recrystallisation in Al (AA1200) cold rolled to a true strain of 4

Effect of distributions of growth rates on recrystallization kinetics and microstructure
Mapping partially recrystallised structures by 3DXRD

Microstructural-based measurement of local stored energy variations in deformed metals

Misorientation aspects of growth during recrystallisation

Orientations of recrystallization nuclei developed in columnar-grained Ni at triple junctions and a high-angle grain boundary

Simulation of recrystallization using molecular dynamics; Effects of the interatomic potential

Simulations of boundary migration during recrystallization using molecular dynamics

Three dimensional characterization of grain structures by EBSP and 3DXRD

Analytical expression for the evolution of interfacial area density between transformed grains during nucleation and growth transformations
Rios, P. R., Godiksen, R. B., Schmidt, S., Juul Jensen, D. & Vandermeer, R. A. 2006 In : Scripta Materialia. 54, 8, p. 1509-1513

Nondestructive approaches for 3-D materials characterization

Non-destructive characterization of recrystallization kinetics using three-dimensional X-ray diffraction microscopy

Recrystallization of AA1050 studied by 3DXRD
X-ray microscopy in four dimensions
In : Materials Today. 9, p. 18-25
Publication: Research - peer-review › Journal article – Annual report year: 2006

Center for Fundamental Research. Metal Structures in Four Dimensions. Annual report 2003
Publication: Research › Report – Annual report year: 2005

Deformation strain inhomogeneity in columnar grain nickel
Publication: Research - peer-review › Journal article – Annual report year: 2005

Local orientation measurements in 3D
Publication: Research - peer-review › Conference article – Annual report year: 2005

Metal structures in four dimensions
Publication: Research - peer-review › Journal article – Annual report year: 2005

Nucleation of recrystallization observed in situ in the bulk of a deformed metal
Publication: Research - peer-review › Journal article – Annual report year: 2005

Orientation correlations in metal structures from the micrometer to nanometer range
Publication: Research - peer-review › Conference article – Annual report year: 2004

Orientation of recrystallization nuclei studied by 3DXRD
Publication: Research - peer-review › Conference article – Annual report year: 2005

Recrystallisation kinetics: From statics to dynamics and from 2D to 3D
Juul Jensen, D. 2005 In : Materials Science and Technology. 21, p. 1365-1373
Publication: Research - peer-review › Journal article – Annual report year: 2005

Recrystallisation kinetics of aluminium AA1200 cold rolled to true strain of 2
Wu, G. & Juul Jensen, D. 2005 In : Materials Science and Technology. 21, p. 1407-1411
Publication: Research - peer-review › Journal article – Annual report year: 2005

The orientations of nuclei at triple junctions in deformed columnar grain Ni
Publication: Research - peer-review › Conference article – Annual report year: 2005

Towards atomic level simulations of recrystallisation - setting up suitable geometry
Publication: Research - peer-review › Journal article – Annual report year: 2005

A method for in-situ measurements of the growth in the bulk of deformed single crystals at the 3DXRD microscope
Publication: Research › Article in proceedings – Annual report year: 2004
Effects on nuclei clustering on recrystallization kinetics
Publication: Research - peer-review › Conference article – Annual report year: 2004

Evolution of deformation microstructures in 3D. Proceedings
Publication: Research - peer-review › Book – Annual report year: 2004

Evolution of Mechanical and Microstructural Properties of ECAP Deformed Copper
Publication: Research - peer-review › Book chapter – Annual report year: 2004

Growth aspects of recrystallization
Publication: Research - peer-review › Conference article – Annual report year: 2004

Growth rate distributions during recrystallization of copper
Publication: Research - peer-review › Conference article – Annual report year: 2004

In-situ investigation of bulk nucleation by X-ray diffraction
Publication: Research - peer-review › Conference article – Annual report year: 2004

In-situ measurements of growth of nuclei within the bulk of deformed aluminum single crystals
Publication: Research - peer-review › Conference article – Annual report year: 2004

Local measurements of stored energy: Microstructural and stereological considerations
Publication: Research › Article in proceedings – Annual report year: 2004

Microstructural parameters and flow stress in Al-0.13% Mg deformed by ECAE processing
Publication: Research - peer-review › Conference article – Annual report year: 2004

Non-destructive characterisation of grain boundaries in 3D
Publication: Research - peer-review › Conference article – Annual report year: 2004

Recrystallization kinetics in the bulk and at the surface
Publication: Research - peer-review › Conference article – Annual report year: 2004

Statistical TEM analysis of boundary misorientations in aluminium deformed to large and extra large strains by ECAE
Publication: Research › Article in proceedings – Annual report year: 2004
Orientation inhomogeneities resolved by 3D X-ray diffraction and EBSD
Publication: Research › Article in proceedings – Annual report year: 2003

Orientation relationships between recrystallization nuclei at triple junctions and deformed structures
Publication: Research - peer-review › Journal article – Annual report year: 2003

Recrystallisation growth rates in hot deformed aluminium
Publication: Research - peer-review › Article in proceedings – Annual report year: 2003

Recrystallization at the 3DXRD microscope
Publication: Research › Article in proceedings – Annual report year: 2003

Recrystallization in hot vs cold deformed commercial aluminum: A microstructure path comparison
Publication: Research - peer-review › Journal article – Annual report year: 2003

Recrystallization kinetics of individual bulk grains in 90 % cold-rolled aluminium
Publication: Research - peer-review › Journal article – Annual report year: 2003

Recrystallization kinetics of individual bulk grains in a commercial aluminium alloy
Publication: Research › Conference abstract in proceedings – Annual report year: 2003

Reply to comment on "Microstructural path and temperature dependence of recrystallization in commercial aluminum"
Publication: Research - peer-review › Journal article – Annual report year: 2003

The three-dimensional X-ray diffraction microscope: 3D maps of grains and grain dynamics in polycrystalline materials
Publication: Research › Journal article – Annual report year: 2003

3D røntgen mikroskopet
Publication: Research › Article in proceedings – Annual report year: 2002

Annealing textures
Publication: Research - peer-review › Book chapter – Annual report year: 2002

Automatic characterization of recrystallizing microstructures by EBSD line scans
Publication: Research › Conference abstract in proceedings – Annual report year: 2002
EBSP. Method, applications, limitations and future (invited paper)
Publication: Research › Conference abstract in proceedings – Annual report year: 2002

From 2D to 3D microtexture investigations
Publication: Research - peer-review › Conference article – Annual report year: 2002

In-situ characterization of thermomechanical processes
Publication: Research › Conference abstract for conference – Annual report year: 2002

In-situ determination of grain boundary migration during recrystallization
Publication: Research - peer-review › Article in proceedings – Annual report year: 2002

Microstructural characterization in 3 dimensions (invited paper)
Publication: Research - peer-review › Article in proceedings – Annual report year: 2002

Orientation correlations in aluminium deformed by ECAE
Publication: Research - peer-review › Journal article – Annual report year: 2002

Orientation correlations in aluminium deformed by ECAE
Publication: Research › Conference abstract in proceedings – Annual report year: 2002

Recrystallization studies using the 3DXRD microscope
Publication: Research › Conference abstract in proceedings – Annual report year: 2002

Stereological studies of recrystallization kinetics
Publication: Research › Conference abstract in proceedings – Annual report year: 2002

A three-dimensional X-ray diffraction microscope for deformation studies of polycrystals
Publication: Research - peer-review › Conference article – Annual report year: 2002

Assessment of microstructural characterisation of heavily deformed materials by electron microscopy
Publication: Research - peer-review › Article in proceedings – Annual report year: 2001
EBSD contra TEM characterization of a deformed aluminum single crystal
Publication: Research - peer-review › Book chapter – Annual report year: 2001

Effect of grain orientation on microstructures during hot deformation of AA 3104 aluminium alloy by plane strain compression
Publication: Research - peer-review › Journal article – Annual report year: 2001

Experimental measurements of nucleation and growth rates
Publication: Research - peer-review › Article in proceedings – Annual report year: 2001

Growth kinetics of individual cube grains as studied by the 3D X-ray diffraction microscope
Publication: Research - peer-review › Article in proceedings – Annual report year: 2001

Growth rates for different texture components during recrystallization of IF steel
Publication: Research - peer-review › Journal article – Annual report year: 2001

Investigation of relationships between matrix orientations and nuclei at triple junctions
Publication: Research - peer-review › Article in proceedings – Annual report year: 2001

Mapping of grain boundaries in 3D
Publication: Research › Conference abstract in proceedings – Annual report year: 2001

Measurement of orientation dependent stored energy of deformation on a local scale
Publication: Research - peer-review › Article in proceedings – Annual report year: 2001

Microstructural path and temperature dependence of recrystallization in commercial aluminum
Publication: Research - peer-review › Journal article – Annual report year: 2001

Nanostructured metals - processing, microstructure and properties
Hansen, N. & Juul Jensen, D. 2001 In : Inzynieria Materialowa. 5, p. 1006-1011
Publication: Research - peer-review › Journal article – Annual report year: 2001

Plastic deformation and recrystallization studied by the 3D X-ray microscope
Publication: Research - peer-review › Article in proceedings – Annual report year: 2001
Growth during recrystallization
School of Materials Science and Engineering, p. 61-64
Publication: Research › Article in proceedings – Annual report year: 2000

Investigation of a cold-rolled microstructure by orientation imaging microscopy
Publication: Research › Article in proceedings – Annual report year: 2000

Kinetics of individual grains during recrystallization
Publication: Research - peer-review › Journal article – Annual report year: 2000

Measurements of crystallographic orientations in 1D, 2D and 3D (invited lecture)
Publication: Research › Conference abstract in proceedings – Annual report year: 2000

Nucleation at triple junctions in pure aluminium
Publication: Research › Article in proceedings – Annual report year: 2000

Recrystallization - Fundamental aspects and relations to deformation microstructure. Proceedings
Publication: Research - peer-review › Book – Annual report year: 2000

Recrystallization in 3D
Publication: Research › Article in proceedings – Annual report year: 2000

Three dimensional mapping of grain boundaries
Publication: Research › Article in proceedings – Annual report year: 2000

Three dimensional maps of polycrystalline materials
Publication: Research › Conference abstract in proceedings – Annual report year: 2000

Through-thickness texture gradients in cold-rolled aluminum
Publication: Research - peer-review › Journal article – Annual report year: 2000

Automatic recognition of recrystallized grains in partly recrystallized samples from crystal orientation maps
Microtexture and microstructure investigations by orientation imaging microscopy (OIM)
Publication: Research › Article in proceedings – Annual report year: 1998

Modern modelling of recrystallization
Publication: Research › Article in proceedings – Annual report year: 1998

Optimization of properties in metals by thermomechanical processing. New possibilities by synchrotron radiation (invited lecture)
Publication: Research › Conference abstract in proceedings – Annual report year: 1998

Orientation pinning during growth
Publication: Research › Article in proceedings – Annual report year: 1998

Slip pattern, microstructure and local crystallography in an aluminium single crystal of brass orientation \[110\]
Publication: Research › Journal article – Annual report year: 1998

Slip pattern, microstructure and local crystallography in an aluminium single crystal of copper orientation \[112\]
Publication: Research › Journal article – Annual report year: 1998

Strain Distribution and Texture Inhomogeneities in Rolled Aluminium
Publication: Research - peer-review › Article in proceedings – Annual report year: 1998

The migration of high angle grain boundaries during recrystallization
Publication: Research - peer-review › Journal article – Annual report year: 1998

Three dimensional X-ray diffraction using high energy synchrotron radiation
Publication: Research › Conference abstract in proceedings – Annual report year: 1998

Through-thickness texture variations determined non-destructively by high energy synchrotron radiation
Publication: Research - peer-review › Journal article – Annual report year: 1998

Deformation induced dislocation boundaries: Alignment and effect on mechanical properties
Publication: Research - peer-review › Conference article – Annual report year: 1997
Anisotrope mekaniske egenskaber
Juul Jensen, D. 1997
Publication: Research › Conference abstract for conference – Annual report year: 1997

Applications of high-energy synchrotron radiation for structural studies of polycrystalline materials
Publication: Research - peer-review › Journal article – Annual report year: 1997

Applications of orientation mapping by scanning and transmission electron microscopy
Publication: Research › Journal article – Annual report year: 1997

Can we make and do we need a 3-D x-ray microscope
Juul Jensen, D. 1997
Publication: Research › Conference abstract for conference – Annual report year: 1997

Current issues in recrystallization: A review
Publication: Research - peer-review › Journal article – Annual report year: 1998

Dense dislocation walls and microbands aligned with slip planes - theoretical considerations
Publication: Research › Journal article – Annual report year: 1997

Effects of orientation correlations on misorientation distributions in cold-deformed aluminium
Publication: Research - peer-review › Conference article – Annual report year: 1997

Grain boundary mobility during recrystallization of copper
Publication: Research - peer-review › Journal article – Annual report year: 1997

Growth during recrystallization
Publication: Research › Conference abstract in proceedings – Annual report year: 1997

Growth effects on microstructure and texture development during recrystallization
Publication: Research › Article in proceedings – Annual report year: 1997

Growth in heavily deformed FCC metals: Effects of orientation pinning
Publication: Research › Article in proceedings – Annual report year: 1997

Hvad sker der i et metal når det rekrystilliseres?
Juul Jensen, D. 1997
Publication: Research › Conference abstract for conference – Annual report year: 1997
Karakterisering og modellering af rekrystallisation
Publication: Research › Article in proceedings – Annual report year: 1997

Modelling flow stress anisotropy caused by deformation induced dislocation boundaries
Publication: Research › Journal article – Annual report year: 1997

Nye karakteriseringsmetoder til materiale struktur og egenskaber
Juul Jensen, D. 1997
Publication: Research › Conference abstract for conference – Annual report year: 1997

Orientation aspects of growth during recrystallization
Juul Jensen, D. 1997 Roskilde: Risø National Laboratory. (Denmark. Forskningscenter Risoe. Risoe-R; No. 978(EN)).
Publication: Research › Doctoral thesis – Annual report year: 1997

Simulation of recrystallization microstructures and textures: Effects of preferential growth
Publication: Research - peer-review › Journal article – Annual report year: 1997

Three dimensional mapping of materials science properties using high energy synchrotron radiation
Publication: Research › Conference abstract in proceedings – Annual report year: 1997

Annealing behavior of dilute aluminum-alloys following hot deformation
Publication: Research - peer-review › Journal article – Annual report year: 1996

Applications of EBSP technique
Juul Jensen, D. 1996
Publication: Research › Conference abstract for conference – Annual report year: 1996

Applications of OIM in SEM and TEM
Juul Jensen, D. 1996
Publication: Research › Conference abstract for conference – Annual report year: 1996

Deformation induced changes in microstructure, local orientation and bulk texture
Publication: Research › Article in proceedings – Annual report year: 1996

Deformation microstructure and texture in hot worked aluminium alloys
Vernon-Parry, K. D., Furu, T., Juul Jensen, D. & Humphreys, F. J. 1996 In : Materials Science and Technology. 12, p. 889-896
Publication: Research - peer-review › Journal article – Annual report year: 1997

Dislocation structures in deformed metals
EBSP studies of growth rates during recrystallization
Publication: Research › Article in proceedings – Annual report year: 1996

Effect of texture on the development of grain size distribution during normal grain growth
Publication: Research › peer-review › Article in proceedings – Annual report year: 1996

Effects of anisotropic impingement on recrystallization texture, microstructure and kinetics
Publication: Research › Article in proceedings – Annual report year: 1996

Growth in heavily deformed FCC metals and effects hereof on microstructural and texture development
Juul Jensen, D. 1996
Publication: Research › Conference abstract for conference – Annual report year: 1996

High energy synchrotron radiation: a new tool for texture and strain determinations
Publication: Research › Conference abstract in proceedings – Annual report year: 1996

High energy synchrotron radiation: A new tool for texture and strain determinations
Publication: Research › Conference abstract in proceedings – Annual report year: 1996

Investigation of local texture by high energy synchrotron radiation
Publication: Research › Conference abstract for conference – Annual report year: 1996

Local structure determination in polycrystalline materials using high energy synchrotron radiation
Publication: Research › Conference abstract in proceedings – Annual report year: 1996

Local texture analysis using high energy synchrotron radiation
Publication: Research › Article in proceedings – Annual report year: 1996

Materials science
Publication: Research › Article in proceedings – Annual report year: 1996

Orientation imaging microscopy (OIM) as a method to investigate deformation microstructure in cold rolled aluminium polycrystals
Quantification of microstructural evolution and texture development during recrystallization

The deformation behaviour of grain boundary regions in polycrystalline aluminium

Axisymmetric textures in alumina

EBSP studies of growth rates during recrystallization

Effects of orientation on growth during recrystallization

Growth rates and misorientation relationships between growing nuclei/grains and the surrounding deformed matrix during recrystallization

Influence of localised glide on the recrystallisation of a channel die deformed [211][111] orientation aluminium single crystal

Microstructural and crystallographic aspects of recrystallization. Proceedings

Microstructural subdivision during cold and hot deformation. A short overview

Microstructure and local crystallography of cold rolled aluminium

Modelling microstructure and texture development during recrystallization

Modern diffraction techniques for measurements of residual strain and texture
Quantifying recrystallization nucleation and growth kinetics of cold-worked copper by microstructural analysis
Publication: Research › Article in proceedings – Annual report year: 1995

Recrystallization kinetics in copper: Comparison between techniques
Publication: Research - peer-review › Journal article – Annual report year: 1995

Simulation of recrystallization microstructures and textures in multiple texture component materials
Publication: Research › Article in proceedings – Annual report year: 1995

Synchrotron radiation diffraction: A novel tool for recrystallization studies in bulk μm³ sized local areas
Publication: Research › Article in proceedings – Annual report year: 1995

Automated determination of crystal orientations from electron backscattering patterns
Publication: Research › Ph.D. thesis – Annual report year: 1994

Annealing textures in aluminium deformed by hot plane strain compression
Publication: Research › Article in proceedings – Annual report year: 1994

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