Corrosion behaviour of Ni and nickel aluminide coatings exposed in a biomass fired power plant for two years
Research output: Contribution to journal › Journal article – Annual report year: 2019 › Research › peer-review

Self-repair by stress-induced diffusion of noble elements during oxidation of Zr48Cu36Al8Ag8 bulk metallic glass
Research output: Contribution to journal › Journal article – Annual report year: 2019 › Research › peer-review

Characterization of oxide layers developed on ZrCuAl-based bulk metallic glasses during gaseous thermochemical treatment
Research output: Contribution to conference › Conference abstract for conference – Annual report year: 2018 › Research › peer-review

Effects of Different Fuel Specifications and Operation Conditions on the Performance of Coated and Uncoated Superheater Tubes in Two Different Biomass-Fired Boilers
Research output: Contribution to journal › Journal article – Annual report year: 2018 › Research › peer-review

Expanded austenite; from fundamental understanding to predicting composition- and stress-depth profiles
Research output: Contribution to conference › Paper – Annual report year: 2018 › Research › peer-review

Future trends in gaseous surface hardening of titanium and titanium alloys
Research output: Contribution to journal › Journal article – Annual report year: 2018 › Research › peer-review

Gaseous surface hardening of martensitic stainless steels
Research output: Contribution to conference › Paper – Annual report year: 2018 › Research › peer-review

High temperature gas nitriding of Cr containing martensitic steels
Research output: Contribution to conference › Paper – Annual report year: 2019 › Research › peer-review

High temperature solution-nitriding and low-temperature nitriding of AISI 316: Effect on pitting potential and crevice corrosion performance
Research output: Contribution to journal › Journal article – Annual report year: 2018 › Research › peer-review

High-temperature solution nitriding and low-temperature surface nitriding of 3D printed stainless steel
Research output: Contribution to conference › Paper – Annual report year: 2018 › Research › peer-review

Microstructural investigations of Ni and Ni2Al3 coatings exposed in biomass power plants
Research output: Contribution to journal › Journal article – Annual report year: 2018 › Research › peer-review

Residual stress in expanded austenite on stainless steel; origin, measurement, and prediction
Surface hardening of Zr-Cu based bulk metallic glasses using gaseous thermochemical treatment

A case hardened component of titanium

Application of aluminum diffusion coatings to mitigate the KCl-induced high-temperature corrosion

Characterization of Thermochemically Surface-Hardened Titanium by Light Optical Microscopy

Effect of carbon on interstitial ordering and magnetic properties of ε-Fe2(N,C)1-z

Hard Surface Layers by Pack Boriding and Gaseous Thermo-Reactive Deposition and Diffusion Treatments

Measurement and tailoring of residual stress in expanded austenite on austenitic stainless steel

On the elusive crystal structure of expanded austenite

Thermochemical Surface Engineering: A Playground for Science and Innovation

The ternary Fe-C-N system: Homogeneous distributions of nitrogen and carbon

Composition-dependent variation of magnetic properties and interstitial ordering in homogeneous expanded austenite
Influence of Microstructure and Process Conditions on Simultaneous Low-Temperature Surface Hardening and Bulk Precipitation Hardening of Nanoflex®
Research output: Contribution to journal › Journal article – Annual report year: 2015 › Research › peer-review

Influence of Plastic Deformation on Low Temperature Surface Hardening of Austenitic and Precipitation Hardening Stainless Steels by Gaseous Nitriding
Research output: Contribution to journal › Journal article – Annual report year: 2015 › Research › peer-review

Influence of Plastic Deformation on Low Temperature Surface Hardening of Austenitic Stainless Steel by Gaseous Nitriding
Research output: Contribution to journal › Journal article – Annual report year: 2015 › Research › peer-review

Influence of plastic deformation on low temperature surface hardening of stainless steel by gaseous nitriding
Research output: Contribution to journal › Journal article – Annual report year: 2015 › Research › peer-review

Investigation of Martensite Formation in Fe Based Alloys During Heating From Boiling Nitrogen Temperature
Villa, M., Christiansen, T. L., Hansen, M. F. & Somers, M. A. J., 2015, In : La Metallurgia Italiana. 11, 12, p. 39-46
Research output: Contribution to journal › Journal article – Annual report year: 2015 › Research › peer-review

Low temperature surface hardening of stainless steel
Research output: Chapter in Book/Report/Conference proceeding › Book chapter – Annual report year: 2014 › Research › peer-review

Microstructural Characterization of Low Temperature Gas Nitrided Martensitic Stainless Steel
Research output: Chapter in Book/Report/Conference proceeding › Article in proceedings – Annual report year: 2015 › Research › peer-review

New Stainless Steel Alloys for Low Temperature Surface Hardening?
Research output: Contribution to journal › Journal article – Annual report year: 2015 › Research › peer-review

On the determination of stress profiles in expanded austenite by grazing incidence X-ray diffraction and successive layer removal
Extended x-ray absorption fine structure investigation of annealed carbon expanded austenite
Research output: Contribution to journal › Journal article – Annual report year: 2012 › Research › peer-review

Extended X-Ray Absorption Fine Structure Investigation of Carbon Stabilized Expanded Austenite and Carbides in Stainless Steel AISI 316
Research output: Contribution to journal › Journal article – Annual report year: 2011 › Research › peer-review

Gaseous carburising of self-passivating Fe–Cr-Ni alloys in acetylene-hydrogen mixtures
Research output: Contribution to journal › Journal article – Annual report year: 2011 › Research › peer-review

Low temperature gaseous surface hardening of stainless steel
Research output: Contribution to journal › Journal article – Annual report year: 2011 › Research › peer-review

Method of activating an article of passive ferrous or non-ferrous metal prior to carburising, nitriding and /or nitrocarburising
Research output: Patent › Patent – Annual report year: 2012 › Research

Nitrocarburizing in ammonia-hydrocarbon gas mixtures
Research output: Contribution to journal › Journal article – Annual report year: 2011 › Research › peer-review

Expanded austenite, crystallography and residual stress
Research output: Contribution to journal › Conference article – Annual report year: 2010 › Research › peer-review

Expanded austenite, crystallography and residual stress
Research output: Contribution to journal › Conference article – Annual report year: 2010 › Research › peer-review

Expanded X-ray absorption fine structure investigation of nitrogen stabilized expanded austenite
Research output: Contribution to journal › Journal article – Annual report year: 2010 › Research › peer-review

Lattice expansion of carbon-stabilized expanded austenite
Research output: Contribution to journal › Journal article – Annual report year: 2010 › Research › peer-review

Low temperature gaseous nitriding of Ni based superalloys
Research output: Contribution to journal › Conference article – Annual report year: 2010 › Research › peer-review

Low temperature gaseous surface hardening of stainless steel
Research output: Chapter in Book/Report/Conference proceeding › Article in proceedings – Annual report year: 2010 › Research
Low temperature thermochemical treatment of stainless steel; bridging from science to technology
Research output: Chapter in Book/Report/Conference proceeding › Article in proceedings – Annual report year: 2010 › Research

Nitrocarburising in ammonia-hydrocarbon gas mixtures
Research output: Chapter in Book/Report/Conference proceeding › Article in proceedings – Annual report year: 2010 › Research

The Influence of Stress on Interstitial Diffusion - Carbon Diffusion Data in Austenite Revisited
Research output: Contribution to journal › Journal article – Annual report year: 2010 › Research › peer-review

Towards commercialization of fast gaseous nitrocarburising stainless steel
Research output: Chapter in Book/Report/Conference proceeding › Article in proceedings – Annual report year: 2010 › Research

Erosion–corrosion and corrosion properties of DLC coated low temperature
Jellesen, M. S., Christiansen, T., Hilbert, L. R. & Møller, P., 2009, In : *Wear*. 06, 038
Research output: Contribution to journal › Journal article – Annual report year: 2009 › Research › peer-review

EXAFS investigation of expanded austenite
Research output: Chapter in Book/Report/Conference proceeding › Book chapter – Annual report year: 2009 › Research

Expanded austenite; crystallography and residual stress
Research output: Chapter in Book/Report/Conference proceeding › Article in proceedings – Annual report year: 2009 › Research › peer-review

Low Temperature Gaseous Nitriding of Ni-based Superalloys

Low-temperature gaseous surface hardening of stainless steel: the current status
Research output: Contribution to journal › Journal article – Annual report year: 2009 › Research › peer-review

Stress and Composition of Carbon Stabilized Expanded Austenite on Stainless Steel
Research output: Contribution to journal › Journal article – Annual report year: 2009 › Research › peer-review

Determination of Concentration Dependent Diffusion Coefficients of Carbon in Expanded Austenite
Research output: Contribution to journal › Journal article – Annual report year: 2008 › Research › peer-review
Determination of the concentration dependent diffusion coefficient of nitrogen in expanded austenite
Research output: Contribution to journal › Journal article – Annual report year: 2008 › Research › peer-review

EXAFS investigation of low temperature nitrided stainless steel
Research output: Contribution to journal › Journal article – Annual report year: 2008 › Research › peer-review

Modelling the X-ray powder diffraction of nitrogen-expanded austenite using the Debye formula
Research output: Contribution to journal › Journal article – Annual report year: 2008 › Research › peer-review

Nitrogen diffusion and nitrogen depth profiles in expanded austenite: experimental assessment, numerical simulation and role of stress
Research output: Contribution to journal › Journal article – Annual report year: 2008 › Research › peer-review

Modelling the X-ray powder diffraction of nitrogen expanded austenite
Research output: Contribution to conference › Conference abstract for conference – Annual report year: 2007 › Research

XRPD and EXAFS of nitrogen expanded austenite.
Research output: Contribution to conference › Poster – Annual report year: 2007 › Research

Avoiding ghost stress on reconstruction of stress- and composition-depth profiles from destructive X-ray diffraction depth profiling
Research output: Contribution to journal › Journal article – Annual report year: 2006 › Research › peer-review

Caractérisation de l’acier inoxydable après trempe superficielle à basse température
Research output: Contribution to journal › Journal article – Annual report year: 2006 › Research

Characterisation of low temperature surface hardened stainless steel
Research output: Contribution to journal › Journal article – Annual report year: 2006 › Research

Controlled dissolution of colossal quantities of nitrogen in stainless steel
Research output: Contribution to journal › Journal article – Annual report year: 2006 › Research › peer-review

Decomposition kinetics of expanded austenite with high nitrogen contents
Research output: Contribution to journal › Journal article – Annual report year: 2006 › Research › peer-review

Evaluation of diffusion coefficients from composition profiles - the influence of trapping
Research output: Contribution to journal › Conference article – Annual report year: 2006 › Research › peer-review

Low temperature gaseous surface hardening of stainless steel; science and technology
Research output: Contribution to conference › Conference abstract for conference – Annual report year: 2006 › Research
Randschichhärtung von rostfreiem stahl durch Gasnitrierung und Gascarbonierung bei niedrigen Temperaturen
Research output: Contribution to journal › Journal article – Annual report year: 2005 › Research › peer-review

CASE-HARDENING OF STAINLESS STEEL
Research output: Patent › Patent – Annual report year: 2004 › Research

Reconstruction of Stress and Composition Profiles from X-ray Diffraction Experiments - How to Avoid Ghost Stresses?
Research output: Contribution to journal › Journal article – Annual report year: 2004 › Research › peer-review

Nitrering og Carburing af rustfrit stål
Research output: Chapter in Book/Report/Conference proceeding › Article in proceedings – Annual report year: 2003 › Research › peer-review

On the crystallographic structure of S-phase
Research output: Contribution to journal › Journal article – Annual report year: 2003 › Research › peer-review

Special Course in TEM
Research output: Book/Report › Report – Annual report year: 2001 › Research

Dannelse af produktionsgrupper: ved brug af produktionsflowanalyse
Research output: Book/Report › Book – Annual report year: 1997 › Research › peer-review

JIT-teknikker og -principper
Research output: Book/Report › Book – Annual report year: 1997 › Research › peer-review

Udvikling af produktionsgrupper
Research output: Book/Report › Book – Annual report year: 1997 › Research › peer-review