Research outputs:

**Compression of dry lysozyme targets: The target preparation pressure as a new parameter in protein thin film production by pulsed laser deposition**
Research output: Contribution to journal › Journal article – Annual report year: 2019 › Research › peer-review

**Comparison of potassium-functionalized Cu2ZnSnS4 nanoparticles annealed in different reactive sulfide atmospheres**
Research output: Chapter in Book/Report/Conference proceeding › Article in proceedings – Annual report year: 2018 › Research › peer-review

**Large process-dependent variations in band alignment and interface band gaps of Cu2ZnSnS4/CdS solar cells**
Research output: Contribution to journal › Journal article – Annual report year: 2018 › Research › peer-review

**Liquid phase assisted grain growth in Cu2ZnSnS4 nanoparticle thin films by alkali element incorporation**
Research output: Contribution to journal › Journal article – Annual report year: 2018 › Research › peer-review

**Micro-scale Real-Time Wear Dynamics Investigated by Synchroton Radiation**
Research output: Chapter in Book/Report/Conference proceeding › Book chapter – Annual report year: 2018 › Research › peer-review

**Pulsed laser deposition of chalcogenide sulfides from multi- and single-component targets: the non-stoichiometric material transfer**
Research output: Contribution to journal › Journal article – Annual report year: 2018 › Research › peer-review

**Boosting the Open Circuit Voltage of Cu2ZnSnS4 Solar Cells by a Lattice-Matched CeO2 Layer and Theoretical Understanding of Interface Defects**
Research output: Contribution to conference › Conference abstract for conference – Annual report year: 2017 › Research › peer-review

**Development of CZTSSe Thin Film Solar Cells with Inclusions of Selenium in the Precursor Stack**
Research output: Contribution to conference › Poster – Annual report year: 2018 › Research › peer-review

**Effect of alkali elements in thin-film Cu2ZnSnS4 solar cells produced by solution-processing**
Research output: Contribution to conference › Paper – Annual report year: 2017 › Research › peer-review
High-energy deposition methods for CZTS and CTS solar cells
Research output: Contribution to conference › Conference abstract for conference – Annual report year: 2017 › Research › peer-review

Investigation of Cu$_2$ZnSnS$_4$ nanoparticles for thin-film solar cell applications
Research output: Contribution to journal › Journal article – Annual report year: 2017 › Research › peer-review

Na-assisted grain growth in CZTS nanoparticle thin films for solar cell applications
Research output: Contribution to conference › Conference abstract for conference – Annual report year: 2017 › Research › peer-review

Nonstoichiometric transfer during laser ablation of metal alloys
Research output: Contribution to journal › Journal article – Annual report year: 2017 › Research › peer-review

Non-stoichiometry in sulfides produced by pulsed laser deposition
Research output: Contribution to conference › Conference abstract for conference – Annual report year: 2017 › Research › peer-review

Pulsed laser deposition (PLD) of multi-component oxide target for Cu2ZnSnS4 solar cells
Research output: Contribution to conference › Poster – Annual report year: 2018 › Research › peer-review

Pulsed laser deposition (PLD) of the CZTS absorber for thin solar cells with up to 5.2-% efficiency
Research output: Contribution to conference › Conference abstract for conference – Annual report year: 2017 › Research › peer-review

Pulsed laser deposition (PLD) of the CZTS absorber for thin solar cells with up to 5.2-% efficiency
Research output: Contribution to conference › Poster – Annual report year: 2017 › Research › peer-review

Spray-coated Cu2ZnSnS4 thin films for large-scale photovoltaic applications
Research output: Chapter in Book/Report/Conference proceeding › Conference abstract in proceedings – Annual report year: 2017 › Research › peer-review

Spray-coated ligand-free Cu2ZnSnS4 nanoparticle thin films
Research output: Contribution to conference › Conference abstract for conference – Annual report year: 2017 › Research › peer-review

Technology for Si/CZTS Tandem Solar Cell
Research output: Chapter in Book/Report/Conference proceeding › Conference abstract in proceedings – Annual report year: 2017 › Research › peer-review
Temperature dependent photoreflectance study of Cu2SnS3 thin films produced by pulsed laser deposition

The effect of dopants on grain growth and PL in CZTS nanoparticle thin films for solar cell applications

Ultra-thin Cu2ZnSnS4 solar cell by pulsed laser deposition

Versatile two-dimensional transition metal dichalcogenides

Al-doped ZnO: RF- or DC-sputtering?

Band gap tuning of amorphous Al oxides by Zr alloying

Comparison of Pulsed Electron Deposition and Pulsed Laser Deposition of selected materials

Depth-dependent composition of sputtered ZnO:Al

Dielectric function and double absorption onset of monoclinic Cu2SnS3: Origin of experimental features explained by first-principles calculations

Formation of copper tin sulfide films by pulsed laser deposition at 248 and 355 nm

Large CZTS Nanoparticles Synthesized by Hot-injection for Thin Film Solar Cells
Lattice-matched Cu$_2$ZnSnS$_4$/CeO$_2$ solar cell with open circuit voltage boost
Research output: Contribution to journal › Journal article – Annual report year: 2016 › Research › peer-review

Material transfer in Pulsed Laser Deposition of the solar cell materials Cu$_2$SnS$_3$ and Cu$_2$ZnSnS$_4$.
Research output: Contribution to conference › Conference abstract for conference – Annual report year: 2016 › Research › peer-review

Novel field test design for acquisition of DC and AC parameters during service
Research output: Chapter in Book/Report/Conference proceeding › Article in proceedings – Annual report year: 2016 › Research › peer-review

On performance limitations and property correlations of Al-doped ZnO deposited by radio-frequency sputtering: Paper
Research output: Contribution to journal › Journal article – Annual report year: 2016 › Research › peer-review

Optical and electrical properties of polycrystalline and amorphous Al-Ti thin films
Research output: Contribution to journal › Journal article – Annual report year: 2016 › Research › peer-review

Pulsed laser deposition of Cu$_2$ZnSnS$_4$ absorber layers assisted by a reactive sulfur beam for solar cells
Research output: Contribution to conference › Conference abstract for conference – Annual report year: 2017 › Research › peer-review

Pulsed Laser Deposition (PLD) of the Solar Cell Materials CZTS and CTS
Research output: Contribution to conference › Conference abstract for conference – Annual report year: 2017 › Research › peer-review

Synthesis of ligand-free CZTS nanoparticles via a facile hot injection route
Research output: Contribution to journal › Journal article – Annual report year: 2016 › Research › peer-review

Thermal analysis of CZTS nanoparticles and inks
Research output: Contribution to conference › Poster – Annual report year: 2016 › Research

Chalcogenide compounds made by pulsed laser deposition at 355 and 248 nm
Research output: Contribution to conference › Poster – Annual report year: 2015 › Research › peer-review
Large CZTS Nanoparticles Synthesized by Hot-Injection for Thin Film Solar Cells.
Research output: Contribution to conference › Poster – Annual report year: 2015 › Research › peer-review

Morphology of Copper Tin Sulfide Films Grown by Pulsed Laser Deposition at 248 and 355 nm
Research output: Contribution to conference › Poster – Annual report year: 2015 › Research › peer-review

Optical properties and surface characterization of pulsed laser-deposited Cu2ZnSnS4 by spectroscopic ellipsometry
Research output: Contribution to journal › Journal article – Annual report year: 2015 › Research › peer-review

Optical properties of photovoltaic Cu2SnS3 films deposited on soda lime glass and Mo-coated glass
Research output: Contribution to conference › Poster – Annual report year: 2015 › Research › peer-review

Optical properties of pulsed laser-deposited Cu2SnS3 films for photovoltaics
Research output: Chapter in Book/Report/Conference proceeding › Conference abstract in proceedings – Annual report year: 2015 › Research › peer-review

Optimized Packing Density of Large CZTS Nanoparticles Synthesized by Hot-Injection for Thin Film Solar Cells.
Research output: Contribution to conference › Poster – Annual report year: 2015 › Research › peer-review

Pulsed Electron Deposition of CZTS
Research output: Contribution to conference › Poster – Annual report year: 2015 › Research

Pulsed laser deposition from ZnS and Cu2SnS3 multicomponent targets
Research output: Contribution to journal › Journal article – Annual report year: 2015 › Research › peer-review

Pulsed laser deposition (PLD) of the solar cell materials CZTS and CTS
Research output: Chapter in Book/Report/Conference proceeding › Conference abstract in proceedings – Annual report year: 2015 › Research › peer-review

Simulation of reflectance from white-anodised aluminium surfaces using polyurethane-TiO2 composite coatings
Research output: Contribution to journal › Journal article – Annual report year: 2015 › Research › peer-review

Research output: Chapter in Book/Report/Conference proceeding › Conference abstract in proceedings – Annual report year: 2015 › Research › peer-review

Synthesis of large CZTSe nanoparticles through a two-step hot-injection method
Research output: Contribution to journal › Journal article – Annual report year: 2015 › Research › peer-review
Thin film CZTS solar cells made by Pulsed Electron Deposition
Research output: Chapter in Book/Report/Conference proceeding › Conference abstract in proceedings – Annual report year: 2015 › Research › peer-review

Thin films of CZTS prepared by Pulsed Laser Deposition

Use 200x less material! Solar cells based on the Cu2ZnSnS4 compound
Research output: Chapter in Book/Report/Conference proceeding › Conference abstract in proceedings – Annual report year: 2015 › Research › peer-review

ZnS top layer for enhancement of the crystallinity of CZTS absorber during the annealing
Research output: Chapter in Book/Report/Conference proceeding › Article in proceedings – Annual report year: 2015 › Research › peer-review

Annealing in Sulfur of Doctor Bladed CZTS Nanoparticles
Research output: Contribution to conference › Poster – Annual report year: 2014 › Research › peer-review

Anodization and Optical Appearance of Sputter Deposited Al-Zr Coatings
Research output: Chapter in Book/Report/Conference proceeding › Book chapter – Annual report year: 2014 › Research › peer-review

Appearance of anodised aluminium: Effect of alloy composition and prior surface finish
Research output: Contribution to journal › Journal article – Annual report year: 2014 › Research › peer-review

Band gap structure modification of amorphous anodic Al oxide film by Ti-alloying
Research output: Contribution to journal › Journal article – Annual report year: 2014 › Research › peer-review

Controlling the Ratio of CZTS to CZTSe Nanocrystals by Hot Injection of Selenium.
Research output: Contribution to conference › Poster – Annual report year: 2014 › Research › peer-review

Cu2SnS3 for solar cells produced by pulsed laser deposition
Research output: Contribution to conference › Poster – Annual report year: 2014 › Research

CZTS - A new environmentally friendly material for thin-film solar cells
Research output: Contribution to conference › Conference abstract for conference – Annual report year: 2014 › Research › peer-review
Electrical characterization of sputtered ZnO:Al films with microprobe technique
Research output: Chapter in Book/Report/Conference proceeding › Conference abstract in proceedings – Annual report year: 2014 › Research › peer-review

Electrical property mapping of ZnO:Al films with micro four-point-probe technique
Research output: Contribution to conference › Poster – Annual report year: 2014 › Research › peer-review

Enhanced Desorption From Solid Deuterium Driven by Charging with KeV Electrons
Research output: Contribution to conference › Conference abstract for conference – Annual report year: 2014 › Research › peer-review

Nanosecond laser ablation and deposition of silver, copper, zinc and tin
Research output: Contribution to journal › Journal article – Annual report year: 2014 › Research › peer-review

Optical properties and secondary phase identification in PLD-grown Cu2ZnSnS4 for thin-film photovoltaics
Research output: Chapter in Book/Report/Conference proceeding › Conference abstract in proceedings – Annual report year: 2014 › Research

Optical properties and surface characterization of PLD-grown Cu2ZnSnS4 by spectroscopic ellipsometry
Research output: Contribution to conference › Poster – Annual report year: 2014 › Research

Production of top and bottom layers for CZTS-based solar cells
Research output: Contribution to conference › Poster – Annual report year: 2015 › Research › peer-review

Pulsed laser deposition of Cu-Sn-S for thin film solar cells
Research output: Contribution to conference › Poster – Annual report year: 2014 › Research

Pulsed laser deposition of ZnS and Cu2SnS3 multicomponent targets
Research output: Contribution to conference › Poster – Annual report year: 2014 › Research

Pulsed laser deposition (PLD) of dielectrics – is femtosecond laser ablation better than nanosecond ablation
Research output: Contribution to conference › Conference abstract for conference – Annual report year: 2014 › Research › peer-review

Study of Grain Growth of CZTS Nanoparticles Annealed in Sulfur Atmosphere
Research output: Chapter in Book/Report/Conference proceeding › Conference abstract in proceedings – Annual report year: 2014 › Research › peer-review
Laser deposition rates of thin films of selected metals and alloys
Research output: Contribution to conference › Conference abstract for conference – Annual report year: 2013 › Research › peer-review

Pulsed laser deposition of lysozyme: the dependence on shot numbers and the angular distribution
Research output: Contribution to journal › Journal article – Annual report year: 2013 › Research › peer-review

Reflectance spectroscopy from TiO2 particles embedded in polyurethane
Research output: Chapter in Book/Report/Conference proceeding › Article in proceedings – Annual report year: 2013 › Research › peer-review

Thin films of C60 produced by matrix-assisted pulsed laser evaporation (MAPLE)
Research output: Contribution to conference › Conference abstract for conference – Annual report year: 2013 › Research › peer-review

Time-resolved and integrated angular distributions of plume ions from silver at low and medium laser fluence
Research output: Contribution to journal › Journal article – Annual report year: 2013 › Research › peer-review

A study on matrix assisted pulsed evaporation (MAPLE) of organic materials
Research output: Chapter in Book/Report/Conference proceeding › Article in proceedings – Annual report year: 2012 › Research › peer-review

Energy distributions of plume ions from silver at different angles ablated in vacuum.
Research output: Contribution to conference › Conference abstract for conference – Annual report year: 2012 › Research › peer-review

Excitation of anodized alumina films with a light source
Research output: Contribution to conference › Conference abstract for conference – Annual report year: 2012 › Research › peer-review

Functionalized Ormosil Scaffolds Processed by Direct Laser Polymerization for Application in Tissue Engineering
Research output: Contribution to conference › Conference abstract for conference – Annual report year: 2012 › Research › peer-review

Growth of thin carbon-based films by laser assisted methods
Research output: Chapter in Book/Report/Conference proceeding › Conference abstract in proceedings – Annual report year: 2012 › Research › peer-review

In vitro studies of PEG thin films with different molecular weights deposited by MAPLE
Research output: Contribution to journal › Journal article – Annual report year: 2012 › Research › peer-review
Laser ablation dynamics and production of thin films of lysozyme
Research output: Contribution to conference › Conference abstract for conference – Annual report year: 2012 › Research › peer-review

Laser ablation of the protein lysozyme
Research output: Contribution to conference › Conference abstract for conference – Annual report year: 2012 › Research › peer-review

Light Scattering of TiO₂ Nanoparticles Embedded in Polyurethane
Research output: Contribution to conference › Conference abstract for conference – Annual report year: 2012 › Research › peer-review

Pulsed laser deposition of the lysozyme protein: an unexpected "Inverse MAPLE" process
Research output: Chapter in Book/Report/Conference proceeding › Conference abstract in proceedings – Annual report year: 2012 › Research › peer-review

Epitaxial growth of atomically flat gadolinia-doped ceria thin films by pulsed laser deposition
Research output: Contribution to journal › Journal article – Annual report year: 2011 › Research › peer-review

Growth of thin films of low molecular weight proteins by matrix assisted pulsed laser evaporation (MAPLE)
Research output: Contribution to journal › Journal article – Annual report year: 2011 › Research › peer-review

Growth of thin fullerene films by matrix assisted pulsed laser evaporation
Research output: Contribution to conference › Conference abstract for conference – Annual report year: 2011 › Research › peer-review

Growth of thin fullerene films by Matrix Assisted Pulsed Laser Evaporation
Research output: Contribution to conference › Conference abstract for conference – Annual report year: 2011 › Research › peer-review

Investigation of photocatalytic activity of titanium dioxide coating deposited on aluminium alloy substrate by plasma technique
Research output: Chapter in Book/Report/Conference proceeding › Article in proceedings – Annual report year: 2011 › Research › peer-review

Laser ablation dynamics and production of thin films of lysozyme
Research output: Contribution to conference › Conference abstract for conference – Annual report year: 2011 › Research › peer-review
Laser ablation of the lysozyme protein: a model system for soft materials
Research output: Contribution to conference › Conference abstract for conference – Annual report year: 2011 › Research › peer-review

Laser-assisted deposition of thin C60 films
Research output: Contribution to conference › Conference abstract for conference – Annual report year: 2011 › Research › peer-review

Matrix Assisted Pulsed Laser Evaporation for growth of fullerene thin films
Research output: Contribution to conference › Conference abstract for conference – Annual report year: 2011 › Research › peer-review

Nanostructured PLD-grown gadolinia doped ceria: Chemical and structural characterization by transmission electron microscopy techniques
Research output: Contribution to journal › Journal article – Annual report year: 2010 › Research › peer-review

Processing of C60 thin films by Matrix-Assisted Pulsed Laser Evaporation (MAPLE)
Research output: Contribution to journal › Journal article – Annual report year: 2011 › Research › peer-review

Pulsed laser deposition growth of FeSb2 films for thermoelectric applications
Research output: Contribution to journal › Journal article – Annual report year: 2010 › Research › peer-review

The effects of thermal annealing on the structure and the electrical transport properties of ultrathin gadolinia-doped ceria films grown by pulsed laser deposition
Research output: Contribution to journal › Journal article – Annual report year: 2011 › Research › peer-review

Time-resolved angular distributions of plume ions from silver at low and medium laser fluence
Christensen, B. T. & Schou, J., 2011.
Research output: Contribution to conference › Conference abstract for conference – Annual report year: 2011 › Research › peer-review

Ablation plume dynamics in a background gas: [invited]
Research output: Chapter in Book/Report/Conference proceeding › Conference abstract in proceedings – Annual report year: 2010 › Research › peer-review

Electrical characterization of gadolinia doped ceria films grown by pulsed laser deposition
Research output: Contribution to journal › Journal article – Annual report year: 2010 › Research › peer-review

Energy balance of a laser ablation plume expanding in a background gas
Research output: Contribution to journal › Journal article – Annual report year: 2010 › Research › peer-review
Epitaxial growth of atomically flat gadolinia-doped ceria thin films by pulsed laser deposition
Research output: Contribution to conference › Poster – Annual report year: 2010 › Research › peer-review

Factors controlling the microstructure of Ce0.9Gd0.1O2-δ films in pulsed laser deposition process
Research output: Contribution to journal › Journal article – Annual report year: 2010 › Research › peer-review

Growth and thermoelectric properties of FeSb2 films produced by pulsed laser deposition
Research output: Contribution to conference › Poster – Annual report year: 2010 › Research › peer-review

Instantaneous monitoring of wear on a micro-nanometer scale through hard coatings by synchrotron radiation
Research output: Contribution to conference › Conference abstract for conference – Annual report year: 2010 › Research › peer-review

Ion Production by Laser Impact on a Silver Surface
Research output: Contribution to conference › Poster – Annual report year: 2010 › Research › peer-review

Optical detections from worn and unworn titanium compound surfaces
Research output: Contribution to journal › Journal article – Annual report year: 2010 › Research › peer-review

Pulsed laser deposition of gadolinia doped ceria layers at moderate temperature – a seeding approach
Research output: Contribution to conference › Poster – Annual report year: 2010 › Research › peer-review

Quantitative TEM analysis of Al/Cu multilayer systems prepared by pulsed laser deposition
Research output: Contribution to journal › Journal article – Annual report year: 2010 › Research › peer-review

Structural and magnetic properties of Gd/Fe multilayers grown by pulsed laser deposition
Research output: Contribution to journal › Journal article – Annual report year: 2010 › Research › peer-review

Wear monitoring of protective nitride coatings using image processing
Research output: Contribution to journal › Journal article – Annual report year: 2010 › Research › peer-review

Charging-assisted desorption of deuterium films by keV electrons
Research output: Chapter in Book/Report/Conference proceeding › Conference abstract in proceedings – Annual report year: 2009 › Research › peer-review

Den fantastiske laser: fra CD-rom til Star Wars
Research output: Contribution to conference › Paper – Annual report year: 2009 › Research
Factors controlling the microstructure of Ce0.9Gd0.1O2-δ films in pulsed laser deposition process
Research output: Contribution to conference › Poster – Annual report year: 2009 › Research › peer-review

Image processing of worn and unworn protective coatings of TiAlN and TiN on 100Cr6 steel
Research output: Contribution to conference › Poster – Annual report year: 2009 › Research › peer-review

It is absolutely fascinating to work with lasers
Research output: Chapter in Book/Report/Conference proceeding › Book chapter – Annual report year: 2009 › Communication

Laser ablation plume expansion into an ambient gas: propagation dynamics and energetics
Research output: Chapter in Book/Report/Conference proceeding › Conference abstract in proceedings – Annual report year: 2010 › Research › peer-review

Materials through light, light through materials: interaction of light and matter
Research output: Chapter in Book/Report/Conference proceeding › Book chapter – Annual report year: 2009 › Communication

On the growth of gadolinia-doped ceria by pulsed laser deposition
Research output: Contribution to journal › Journal article – Annual report year: 2009 › Research › peer-review

Physical aspects of the pulsed laser deposition technique: The stoichiometric transfer of material from target to film
Research output: Contribution to journal › Journal article – Annual report year: 2009 › Research › peer-review

Quantitative TEM analysis of Al/Cu multilayer prepared by pulsed laser deposition
Research output: Contribution to conference › Poster – Annual report year: 2009 › Research › peer-review

RHEED study of titanium dioxide with pulsed laser deposition
Research output: Contribution to journal › Conference article – Annual report year: 2009 › Research › peer-review

Sputtering of cryogenic films of hydrogen by keV ions: Thickness dependence and surface morphology
Research output: Contribution to journal › Conference article – Annual report year: 2009 › Research › peer-review

Structural and magnetic properties of Gd/Fe multilayers grown by pulsed laser deposition
Research output: Contribution to conference › Poster – Annual report year: 2009 › Research › peer-review

Transport properties of nanocrystalline gadolinia doped ceria films grown by pulsed laser deposition
Research output: Contribution to conference › Poster – Annual report year: 2009 › Research › peer-review
Design of optical reflectance signals for wear control by varying the thickness of thin films of Ti-compounds
Research output: Contribution to journal › Journal article – Annual report year: 2008 › Research › peer-review

Desorption of cryogenic layers of the solid hydrogens by electron bombardment: The role of the metal substrate
Research output: Contribution to journal › Journal article – Annual report year: 2008 › Research › peer-review

Fast print - universets mærkeligste stof
Research output: Contribution to journal › Journal article – Annual report year: 2008 › Communication

Formation of plasma from pure and polymer-doped water ice during intense laser irradiation
Research output: Contribution to journal › Journal article – Annual report year: 2008 › Research › peer-review

Growth of thin films of TiN on MgO(100) monitored by high-pressure RHEED
Research output: Contribution to journal › Journal article – Annual report year: 2008 › Research › peer-review

Influence of the atomic mass of the background gas on laser ablation plume propagation
Research output: Contribution to journal › Journal article – Annual report year: 2008 › Research › peer-review

Laser-induced plasma from pure and doped water-ice at high fluence by ultraviolet and infrared radiation - art. no. 70050X
Research output: Contribution to journal › Conference article – Annual report year: 2008 › Research › peer-review

Production and fragmentation of lysozyme films at 355 nm by pulsed laser deposition (PLD)
Research output: Contribution to conference › Poster – Annual report year: 2008 › Research

Production of thin protein films by direct laser irradiation (PLD) and laser irradiation in a water ice matrix (MAPLE)
Research output: Contribution to conference › Conference abstract for conference – Annual report year: 2008 › Research
Reflectance measured from worn and unworn surfaces of titanium compounds
Research output: Contribution to conference › Conference abstract for conference – Annual report year: 2008 › Research

RHEED study of titanium dioxide using pulsed laser deposition
Research output: Contribution to conference › Conference abstract for conference – Annual report year: 2008 › Research

RHEED Study of Titanium Dioxide Using Pulsed Laser Deposition
Research output: Contribution to conference › Poster – Annual report year: 2008 › Research

Sputtering of cryogenic films of hydrogen by keV ions: Thickness dependence and surface morphology
Research output: Contribution to conference › Conference abstract for conference – Annual report year: 2008 › Research

Sputtering of cryogenic films of hydrogen by keV ions: Thickness dependence and surface morphology
Research output: Contribution to conference › Conference abstract for conference – Annual report year: 2008 › Research

Thin films of proteins produced in a dry environment by laser irradiation
Research output: Contribution to conference › Conference abstract for conference – Annual report year: 2008 › Research

Thin films of proteins produced in a dry environment by laser irradiation
Research output: Contribution to conference › Paper – Annual report year: 2008 › Research

A RHEED study of thin films grown on MgO samples by pulsed laser deposition
Research output: Contribution to conference › Conference abstract for conference – Annual report year: 2007 › Research

A tribological study of titanium nitrides with synchrotron radiation
Research output: Contribution to conference › Conference abstract for conference – Annual report year: 2007 › Research

Characterization of lysozyme films produced by matrix assisted pulsed laser evaporation (MAPLE)
Research output: Contribution to journal › Conference article – Annual report year: 2007 › Research › peer-review

Characterization of yttria-stabilized zirconia thin films grown by pulsed laser deposition (PLD) on various substrates
Research output: Contribution to journal › Journal article – Annual report year: 2007 › Research › peer-review

Deposition and fragmentation of protein films produced by MAPLE or PLD
Research output: Contribution to conference › Conference abstract for conference – Annual report year: 2007 › Research

Desorption of thin cryogenic layers by electron, ion and photon irradiation
Research output: Contribution to conference › Paper – Annual report year: 2007 › Research
Electron-induced desorption of layers of the solid hydrogens on a metal substrate: The question of the energy dissipation in the substrate
Research output: Contribution to conference › Paper – Annual report year: 2007 › Research

Formation of thin films of yttria-stabilized zirconia thin films grown by pulse laser deposition (PLD) on various substrates
Research output: Contribution to conference › Paper – Annual report year: 2007 › Research

Fundamentals of laser-assisted fabrication of inorganic and organic films
Research output: Contribution to conference › Conference abstract for conference – Annual report year: 2007 › Research

Growth dynamics of thin lysozyme films produced by matrix-assisted pulsed laser evaporation (MAPLE)
Research output: Contribution to conference › Paper – Annual report year: 2007 › Research

Growth of thin films of TiN on MgO(100) monitored by high pressure RHEED
Research output: Contribution to conference › Paper – Annual report year: 2007 › Research

High fluence deposition of polyethylene glycol films at 1064 nm by matrix assisted pulsed laser evaporation (MAPLE)
Research output: Contribution to journal › Journal article – Annual report year: 2007 › Research › peer-review

Influence of the atomic mass of the background gas on laser ablation plume propagation
Research output: Contribution to conference › Conference abstract for conference – Annual report year: 2007 › Research

Large-area production of yttria-stabilized zirconia by pulsed laser deposition
Research output: Contribution to journal › Conference article – Annual report year: 2007 › Research › peer-review

Laser-induced plasma from pure and doped water-ice at high fluence
Research output: Contribution to conference › Conference abstract for conference – Annual report year: 2007 › Research

Laser irradiation of hard and volatile solids: from laser-produced plasmas to film deposition
Research output: Contribution to conference › Conference abstract for conference – Annual report year: 2007 › Research

Optical monitoring of abrasive wear of titanium compounds in tribological hard coatings
Research output: Contribution to conference › Paper – Annual report year: 2007 › Research

Optisk kontrol af tribologiske nanotyndfilm: En laserbaseret slitagesensor
Research output: Contribution to journal › Journal article – Annual report year: 2007 › Communication

Plume dynamics
Research output: Chapter in Book/Report/Conference proceeding › Book chapter – Annual report year: 2007 › Research › peer-review
Production of active lysozyme films by matrix assisted pulsed laser evaporation at 355 nm
Research output: Contribution to journal › Journal article – Annual report year: 2007 › Research › peer-review

Slowing-down processes, energy deposition, sputtering and desorption in ion and electron interactions with solids
Research output: Chapter in Book/Report/Conference proceeding › Article in proceedings – Annual report year: 2007 › Research

Surface morphology of thin lysozyme films produced by matrix-assisted pulsed laser evaporation (MAPLE)
Research output: Contribution to journal › Journal article – Annual report year: 2007 › Research › peer-review

The spatial thickness distribution of metal films produced by large area pulsed laser deposition
Research output: Contribution to journal › Journal article – Annual report year: 2007 › Research › peer-review

Thin films of proteins produced by laser irradiation of dry or frozen targets
Research output: Contribution to conference › Conference abstract for conference – Annual report year: 2007 › Research

Water ice as a matrix for film production by matrix assisted pulsed laser evaporation (MAPLE)
Research output: Contribution to journal › Conference article – Annual report year: 2007 › Research › peer-review

Deposition of polyethylene glycol films (PEG) by matrix assisted pulsed laser evaporation (MAPLE) using infrared light
Research output: Contribution to conference › Conference abstract for conference – Annual report year: 2006 › Research

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Schou, J., 2006, In : Kvant. 17, 2, p. 3
Research output: Contribution to journal › Journal article – Annual report year: 2006 › Communication

High fluence deposition of polyethylene glycol films at 1064 nm by matrix assisted pulsed laser evaporation (MAPLE)
Research output: Contribution to conference › Conference abstract for conference – Annual report year: 2006 › Research

High-quality protein films produced by Maple (Matrix assisted pulsed laser evaporation)
Research output: Contribution to conference › Conference abstract for conference – Annual report year: 2006 › Research

Ion, electron and photon interactions with solids: Energy deposition, sputtering and desorption
Research output: Contribution to conference › Conference abstract for conference – Annual report year: 2006 › Research

Large area metal films produced by pulsed laser deposition
Research output: Contribution to conference › Conference abstract for conference – Annual report year: 2006 › Research

Laser beam-solid interactions: Fundamental aspects
Research output: Chapter in Book/Report/Conference proceeding › Book chapter – Annual report year: 2006 › Research › peer-review
Materialer, solceller og lys
Research output: Contribution to conference › Conference abstract for conference – Annual report year: 2006 › Research

Multiple-scattering effects in laser ablation plume propagation in gases
Research output: Contribution to journal › Journal article – Annual report year: 2006 › Research › peer-review

Nonlinear effects in ion-beam science
Research output: Contribution to conference › Conference abstract for conference – Annual report year: 2006 › Research

Optical control of tribological nanofilms: A wear sensor
Research output: Contribution to conference › Conference abstract for conference – Annual report year: 2006 › Research

Particle emission from polymer-doped water ice matrices induced by non-linear absorption of laser light at 1064 nm
Research output: Contribution to journal › Journal article – Annual report year: 2006 › Research › peer-review

Plume propagation dynamics and multiple scattering effects during UV pulsed laser ablation in background gases
Research output: Contribution to conference › Conference abstract for conference – Annual report year: 2006 › Research

Protein films produced by Maple (Matrix assisted pulsed laser evaporation)
Research output: Contribution to conference › Conference abstract for conference – Annual report year: 2006 › Research

Surface morphology of polyethylene glycol films produced by matrix-assisted pulsed laser evaporation (MAPLE): Dependence on substrate temperature
Research output: Contribution to journal › Conference article – Annual report year: 2006 › Research › peer-review

Thickness determination of large-area films of yttria-stabilized zirconia produced by pulsed laser deposition
Research output: Contribution to journal › Conference article – Annual report year: 2006 › Research › peer-review

Wear control of tribological hard coatings with embedded optical nano-layers
Research output: Contribution to conference › Conference abstract for conference – Annual report year: 2006 › Research

Broadening and attenuation of UV laser ablation plumes in background gases
Research output: Contribution to journal › Conference article – Annual report year: 2005 › Research › peer-review

Electrical and structural properties of La0.8Sr0.2Mn0.5Co0.5O3±δ films produced by pulsed laser deposition
Research output: Contribution to journal › Conference article – Annual report year: 2005 › Research › peer-review

Fundamental features of UV laser ablation by ns-pulses
Research output: Contribution to conference › Conference abstract for conference – Annual report year: 2005 › Research
High laser-fluence deposition of organic materials in water ice matrices by "MAPLE"
Research output: Contribution to journal › Conference article – Annual report year: 2005 › Research › peer-review

Infrared matrix assisted pulsed laser evaporation of polymeric films (poster)
Research output: Contribution to conference › Poster – Annual report year: 2005 › Research

Ion, electron and photon interactions with solids: Sputtering and desorption (Invited lecture)
Research output: Contribution to conference › Conference abstract for conference – Annual report year: 2005 › Research

Large-scale production of yttria-stabilized zirconia by pulsed laser deposition
Research output: Contribution to conference › Conference abstract for conference – Annual report year: 2005 › Research

Large-scale pulsed laser deposition (poster)
Research output: Contribution to conference › Poster – Annual report year: 2005 › Research

Laser irradiation of polymer-doped cryogenic matrices
Research output: Contribution to journal › Journal article – Annual report year: 2005 › Research › peer-review

Surface structure of polyethylene glycol films produced by matrix assisted pulsed laser evaporation (MAPLE)
Research output: Contribution to conference › Conference abstract for conference – Annual report year: 2005 › Research

Thickness determination of large-area films of yttria-stabilized zirconia produced by pulsed laser ablation
Research output: Contribution to conference › Conference abstract for conference – Annual report year: 2005 › Research

Thin film-deposition of organic material from laser-irradiated water-ice matrices
Research output: Contribution to conference › Conference abstract for conference – Annual report year: 2005 › Research

Water ice as a matrix for film production by matrix-assisted pulsed laser evaporation (MAPLE)
Research output: Contribution to conference › Conference abstract for conference – Annual report year: 2005 › Research

Diagnostics of laser ablated plasma plumes
Research output: Contribution to journal › Conference article – Annual report year: 2004 › Research › peer-review

Conductive and protective properties of La$_{0.8}$Sr$_{0.2}$Mn$_{0.5}$Co$_{0.5}$O$_3$ films produced by pulsed laser deposition
Research output: Contribution to conference › Conference abstract for conference – Annual report year: 2004 › Research

Deposition of organic materials from ice matrices by laser irradiation
Research output: Contribution to conference › Conference abstract for conference – Annual report year: 2004 › Research
Dynamics of a laser-produced silver plume in an oxygen background gas
Research output: Contribution to conference › Conference abstract for conference – Annual report year: 2004 › Research

Ejection of atoms and molecules from solid argon by keV light ion bombardment
Research output: Contribution to conference › Conference abstract for conference – Annual report year: 2004 › Research

Ejection of polymers from ice matrices induced by laser irradiation
Research output: Contribution to conference › Conference abstract for conference – Annual report year: 2004 › Research

Expansion of a laser-produced silver plume in light background gases
Research output: Contribution to journal › Journal article – Annual report year: 2004 › Research › peer-review

Fundamental interactions in laser irradiation of silver in low-pressure background gases
Research output: Contribution to conference › Conference abstract for conference – Annual report year: 2004 › Research

Fundamental interactions in pulsed laser deposition of metals
Research output: Contribution to conference › Conference abstract for conference – Annual report year: 2004 › Research

High laser-fluence deposition of organic materials in water ice matrices by "MAPLE"
Research output: Contribution to conference › Conference abstract for conference – Annual report year: 2004 › Research

Ions produced by laser-surface interactions
Research output: Contribution to conference › Conference abstract for conference – Annual report year: 2004 › Research

Langmuir probe measurements of silver plasma expanding in vacuum and argon atmosphere (poster)
norskov, t., toftmann, b. & schou, j., 2004.
Research output: Contribution to conference › Poster – Annual report year: 2004 › Research

Laser-induced ion emission during polymer deposition from a flash-frozen water ice matrix
Research output: Contribution to journal › Journal article – Annual report year: 2004 › Research › peer-review

Laser irradiation of polymer-doped water ice matrices: From fundamental processes to polymer film deposition
Research output: Contribution to conference › Conference abstract for conference – Annual report year: 2004 › Research

Polymer film deposition and laser-plume interactions from laser irradiation of doped water ice
Research output: Contribution to conference › Conference abstract for conference – Annual report year: 2004 › Research

Pulsed laser deposition: From basic processes to film deposition
Research output: Contribution to conference › Conference abstract for conference – Annual report year: 2004 › Research

Pulsed laser deposition of aluminum-doped ZnO films at 355 nm
Research output: Contribution to journal › Journal article – Annual report year: 2004 › Research › peer-review

**Pulsed laser deposition of thin films**

Research output: Contribution to conference › Conference abstract for conference – Annual report year: 2004 › Research

**The expansion of a laser-produced silver plume in background gases**

Research output: Contribution to conference › Conference abstract for conference – Annual report year: 2004 › Research

**Thermalization of a UV laser ablation plume in a background gas: From a directed to a diffusionlike flow**

Research output: Contribution to journal › Journal article – Annual report year: 2004 › Research › peer-review

**UV and RIR matrix assisted pulsed laser deposition of organic MEH-PPV films**

Research output: Contribution to journal › Journal article – Annual report year: 2004 › Research › peer-review

**A comparison of the laser plume from Cu and YBCO studied with ion probes**

Research output: Contribution to journal › Journal article – Annual report year: 2003 › Research › peer-review

**Deposition and characterization of aluminum-doped ZnO films produced by pulsed laser deposition**

Research output: Contribution to conference › Conference abstract for conference – Annual report year: 2003 › Research

**Diagnostics of laser ablated plasma plumes**

Research output: Contribution to conference › Conference abstract for conference – Annual report year: 2003 › Research

**Dynamics of the plume produced by nanosecond ultraviolet laser ablation of metals**

Research output: Contribution to journal › Journal article – Annual report year: 2003 › Research › peer-review

**Expansion of a laser-produced silver plume in light and heavy background gases**

Research output: Contribution to conference › Conference abstract for conference – Annual report year: 2003 › Research

**Laser ablation at 355 nm of organic materials embedded in matrices**

Research output: Contribution to conference › Conference abstract for conference – Annual report year: 2003 › Research

**Matrix assisted pulsed laser evaporation (MAPLE) of polyethylene glycol (PEG)**

Research output: Contribution to conference › Conference abstract for conference – Annual report year: 2003 › Research

**Plume dynamics of UV laser ablation of silver in vacuum with fs-pulses**

Research output: Contribution to conference › Conference abstract for conference – Annual report year: 2003 › Research

**Sputtering of water ice**
The angular distribution of plume ions from fs-laser irradiation

A study on Matrix assisted pulsed laser deposition of organic MEH-PPV films (poster)

Deposition and characterization of ITO films produced by laser ablation at 355 nm

Energy requirements to cut plants with a CO2 laser

Evolution of the plasma parameters in the expanding laser ablation plume of silver

Ion dynamics in laser ablation plumes from selected metals at 355 nm

Laser ablation of living plants

Plume expansion of a laser-induced plasma studied with the particle-in-cell method

Polyethylene glycol thin film production by MAPLE (poster)

Preparations of targets for interaction of heavy ions with dense plasmas (poster)

Pure and Sn-doped ZnO films produced by pulsed laser deposition
Sputtering of isotopes of the solid hydrogens by ions
Research output: Contribution to journal › Journal article – Annual report year: 2002 › Research › peer-review

Thermalization of a laser produced silver plume in a background gas
Research output: Chapter in Book/Report/Conference proceeding › Conference abstract in proceedings – Annual report year: 2002 › Research

Using laser to measure stem thickness and cut weed stems
Research output: Contribution to journal › Journal article – Annual report year: 2002 › Research › peer-review

Cutting weeds with a CO₂ laser
Research output: Contribution to journal › Journal article – Annual report year: 2001 › Research › peer-review

Doping of thin films of optical materials by pulsed laser deposition (poster)
Research output: Contribution to conference › Poster – Annual report year: 2001 › Research

Dynamics of the expansion plume from laser ablated silver
Research output: Chapter in Book/Report/Conference proceeding › Conference abstract in proceedings – Annual report year: 2001 › Research

Electron temperatures and densities from laser-ablated silver at 355 nm
Research output: Chapter in Book/Report/Conference proceeding › Conference abstract in proceedings – Annual report year: 2001 › Research

Sputtering of carbon monoxide ice by hydrogen ions
Research output: Contribution to journal › Journal article – Annual report year: 2002 › Research › peer-review

Sputtering of isotopes of the solid hydrogens by light ions
Schou, J., 2001, Extended abstracts. Nagoya: Nagoya University, Department of Nuclear Engineering, p. 57-59
Research output: Chapter in Book/Report/Conference proceeding › Conference abstract in proceedings – Annual report year: 2001 › Research

Sputtering of solid deuterium by He-ions
Research output: Contribution to journal › Conference article – Annual report year: 2001 › Research › peer-review

Angular distribution of electron temperature and density in a laser-ablation plume
Research output: Contribution to journal › Journal article – Annual report year: 2000 › Research › peer-review

Crystallinity of ITO and AZO thin films produced by laser ablation
Dynamics of laser-plasma for selected components studied with electrical probes
Research output: Book/Report › Report – Annual report year: 2000 › Research

'Flip-over' effect of a laser ablation plume
Research output: Chapter in Book/Report/Conference proceeding › Conference abstract in proceedings – Annual report year: 2000 › Research

Holographic grating formation in laser-deposited aluminium-doped zinc oxide and indium tin oxide films
Research output: Contribution to journal › Journal article – Annual report year: 2000 › Research › peer-review

SmartProbe and Langmuir probe measurements, Dublin, July 2000
Research output: Book/Report › Report – Annual report year: 2000 › Research

Time-of-flight study of water ice sputtered by slow xenon ions
Research output: Contribution to journal › Journal article – Annual report year: 2000 › Research › peer-review

Ablation from artificial or laser-induced crater surfaces of silver by laser irradiation at 355 nm
Research output: Contribution to journal › Journal article – Annual report year: 2000 › Research › peer-review

Ablation from flat or crater surfaces of silver induced by laser irradiation at 355 nm
Research output: Contribution to conference › Conference abstract for conference – Annual report year: 1999 › Research

AZO - et nyt optisk materialer
Research output: Contribution to journal › Journal article – Annual report year: 1999 › Communication

Electrical and optical properties of thin indium tin oxide films produced by pulsed laser ablation in oxygen or rare gas atmospheres
Research output: Contribution to journal › Journal article – Annual report year: 1999 › Research

Gasflow and collision dynamics in a thermally laser ablated plume of silver atoms described by Monte Carlo simulations
Research output: Chapter in Book/Report/Conference proceeding › Conference abstract in proceedings – Annual report year: 1999 › Research

Holographic gratings induced in laser deposited AZO and ITO films
Thestrup, B., Dam-Hansen, C., Schou, J. & Johansen, P. M., 1999, Post-deadline papers. Roskilde: Risø National Laboratory, p. 31-34
Research output: Chapter in Book/Report/Conference proceeding › Article in proceedings – Annual report year: 1999 › Research
Ion time-of-flight study of laser ablation of silver in low pressure gases
Research output: Contribution to journal › Journal article – Annual report year: 1999 › Research

Langmuir probe study of plasma expansion in pulsed laser ablation
Research output: Contribution to journal › Journal article – Annual report year: 2000 › Research › peer-review

Laser ablation at different angles of incidence
Research output: Chapter in Book/Report/Conference proceeding › Conference abstract in proceedings – Annual report year: 1999 › Research

Laser ablation from radiation-produced or artificial craters
Research output: Chapter in Book/Report/Conference proceeding › Conference abstract in proceedings – Annual report year: 1999 › Research

Monte Carlo description of gas flow from laser-evaporated silver
Research output: Contribution to journal › Journal article – Annual report year: 2000 › Research › peer-review

Production of films of transparent semiconductors by laser ablation
Research output: Chapter in Book/Report/Conference proceeding › Conference abstract in proceedings – Annual report year: 1999 › Research

Pulsed laser deposition of transparent, conducting AZO and ITO films
Research output: Chapter in Book/Report/Conference proceeding › Conference abstract in proceedings – Annual report year: 1999 › Research

Sputtering by excitonic and elastic processes from solid neon by He ion bombardment
Research output: Contribution to journal › Journal article – Annual report year: 1999 › Research › peer-review

Transparent conducting AZO and ITO films produced by pulsed laser ablation at 355 nm
Research output: Contribution to journal › Journal article – Annual report year: 2000 › Research › peer-review

Ablation of volatile films by laser heating of substrates
Research output: Contribution to journal › Journal article – Annual report year: 1998 › Research › peer-review

Angle-resolved energy distributions of laser ablated silver ions in vacuum
Research output: Contribution to journal › Journal article – Annual report year: 1998 › Research

Angular distributions of emitted particles by laser ablation of silver at 355 nm
Research output: Contribution to journal › Journal article – Annual report year: 1998 › Research › peer-review
A study on indium tin oxide films produced by laser ablation in different background gases
Research output: Chapter in Book/Report/Conference proceeding › Conference abstract in proceedings – Annual report year: 1998 › Research

Background gas effects on deposition of ITO films by pulsed laser deposition
Research output: Chapter in Book/Report/Conference proceeding › Conference abstract in proceedings – Annual report year: 1998 › Research

Electron temperatures of laser-induced plasmas
Research output: Contribution to conference › Conference abstract for conference – Annual report year: 1998 › Research

Laser ablation of silver in a background gas
Research output: Contribution to conference › Conference abstract for conference – Annual report year: 1998 › Research

Production of thin films of ITO by laser ablation
Research output: Contribution to conference › Conference abstract for conference – Annual report year: 1998 › Research

Pulsed laser deposition of ITO in different background gases
Research output: Contribution to conference › Conference abstract for conference – Annual report year: 1998 › Research

Sputtering of Surfaces of the Solid Hydrogens
Research output: Contribution to journal › Conference article – Annual report year: 1998 › Research › peer-review

Use of image-processing tools for texture analysis of high-energy X-ray synchrotron data
Research output: Contribution to journal › Journal article – Annual report year: 1998 › Research › peer-review

Ablation of solids by pulsed UV-lasers
Research output: Contribution to conference › Conference abstract for conference – Annual report year: 1997 › Research

Ablation of volatile films from multilayer systems by laser heating of substrates
Research output: Chapter in Book/Report/Conference proceeding › Conference abstract in proceedings – Annual report year: 1997 › Research

Angular distribution and total yield of laser ablated silver
Research output: Contribution to journal › Journal article – Annual report year: 1997 › Research › peer-review

Angular distributions and total yield of laser ablated silver
Angular distributions of ions and neutrals from laser ablated silver  

Angular distributions of ions from laser irradiated silver  

Angular distributions of silver ions and neutrals emitted in vacuum by laser ablation  

Ejection of molecules from solid deuterium excited by keV electrons  

Electronic sputtering of quantum solids: Solid deuterium bombarded by keV electrons  

Electron temperatures of laser-induced plasmas  

Kinetic energy distributions of atoms sputtered from electron-excited solid neon  

Laser ablation: bestråling af overflade med ekstrem høj lysintensitet  
Schou, J., 1997, In : Kvant. 8, 1, p. 1-6

Laser ablation of silver studied by angular-resolved ion probe measurements  

Laser ablation of silver in a background gas  
Electronic sputtering and charge accumulation in thick deuterium films

Holographic gratings induced in laser ablated thin films of indium tin oxide

Laser ablation deposition measurements from silver and nickel

Laser ablation deposition measurements from silver and nickel

Laser induced evaporation of volatile films from a multicomponent system

Lattice dynamics during electronic sputtering of solid Ne

Linear and nonlinear effects at low energy ion bombardment of solid xenon

Molecular-dynamics simulation of ejection processes in electronically excited solid Ne

Secondary electrons from heavy-ion tracks

Secondary electron spectra from charged particle interactions

Thin films of ITO produced by pulsed laser deposition

Thin films of ITO produced by pulsed laser deposition

Ablation from metals induced by visible and UV laser irradiation
Ablation of silver and nickel induced by visible and UV laser irradiation
Research output: Chapter in Book/Report/Conference proceeding › Conference abstract in proceedings – Annual report year: 1995 › Research

A multipurpose cluster ion source
Research output: Contribution to conference › Conference abstract for conference – Annual report year: 1995 › Research

Laser-induced evaporation of metals studied by numerical methods
Research output: Contribution to conference › Conference abstract for conference – Annual report year: 1995 › Research

Linear and nonlinear effects at low energy ion bombardment of solid xenon
Research output: Contribution to conference › Conference abstract for conference – Annual report year: 1995 › Research

Particle dynamics during electronic sputtering of solid krypton
Research output: Contribution to journal › Conference article – Annual report year: 1995 › Research › peer-review

Particle emission induced by ionization tracks in water ice
Research output: Contribution to journal › Journal article – Annual report year: 1995 › Research › peer-review

Secondary electron emission from solids
Research output: Contribution to conference › Conference abstract for conference – Annual report year: 1995 › Research

Secondary electron emission from solids: Fundamental aspects
Research output: Contribution to conference › Conference abstract for conference – Annual report year: 1995 › Research

Secondary electrons from solids
Research output: Contribution to conference › Conference abstract for conference – Annual report year: 1995 › Research

Secondary particle emission from water ice irradiated by photons and charged particles
Research output: Contribution to conference › Conference abstract for conference – Annual report year: 1995 › Research

Setup for pulsed laser deposition of thin ITO films
Research output: Chapter in Book/Report/Conference proceeding › Conference abstract in proceedings – Annual report year: 1995 › Research

Sputtering of the most volatile solids: The solid hydrogens
Research output: Contribution to journal › Journal article – Annual report year: 1995 › Research › peer-review
Sputtering of thin and intermediately thick films of solid deuterium by keV electrons
Research output: Contribution to journal › Conference article – Annual report year: 1995 › Research › peer-review

Sputtering of water ice surfaces and the production of extended neutral atmospheres
Research output: Contribution to journal › Journal article – Annual report year: 1996 › Research › peer-review

Transition from linear to nonlinear sputtering of solid xenon
Research output: Contribution to journal › Journal article – Annual report year: 1995 › Research › peer-review

Dynamics of rigid bodies
Research output: Contribution to conference › Conference abstract for conference – Annual report year: 1994 › Research

Erosion of solid deuterium of various film thicknesses by keV electrons
Research output: Contribution to conference › Conference abstract for conference – Annual report year: 1994 › Research

Ion-surface scattering
Research output: Contribution to conference › Conference abstract for conference – Annual report year: 1994 › Research

Laser ablation from metallic targets
Research output: Contribution to conference › Conference abstract for conference – Annual report year: 1994 › Research

Laser ablation from metals
Research output: Contribution to conference › Conference abstract for conference – Annual report year: 1994 › Research

Laser ablation from silver targets
Research output: Contribution to conference › Conference abstract for conference – Annual report year: 1994 › Research

Laser-induced evaporation yields of metallic systems evaluated by numerical methods
Research output: Contribution to conference › Conference abstract for conference – Annual report year: 1994 › Research

Particle dynamics during electronic sputtering of solid krypton
Research output: Contribution to conference › Conference abstract for conference – Annual report year: 1994 › Research

Plasmon-assisted electron emission from Al and Mg surfaces
Research output: Contribution to conference › Conference abstract for conference – Annual report year: 1994 › Research

Satellite and ring atmospheres produced by ion, electron and photo-sputtering of icy satellites and ring particles: Laboratory measurements
Research output: Contribution to conference › Conference abstract for conference – Annual report year: 1994 › Research
Sputtering by excimer production from solid krypton

Sputtering of frozen gases by ion and electron bombardment

Sputtering of solid nitrogen and oxygen by keV hydrogen ions

Sputtering of solid deuterium by keV hydrogen ions

Sputtering of thick deuterium films by keV electrons

UV luminescence of NeD in solid neon-deuterium mixtures

Laserablation fra faste stoffer. Et område i rivende udvikling
Schou, J., 1993, In : DOPS-Nyt. 8, 3, p. 6-9

Luminescence from pure and doped solid deuterium irradiated by keV electrons

Secondary electron emission from insulators

Sputtering of inorganic insulators

Sputtering of solid deuterium by keV electrons. Paper P53
Sputtering of solid nitrogen by keV helium ions
Research output: Contribution to journal › Conference article – Annual report year: 1993 › Research › peer-review

UV laser irradiation of thin films of silver and solid nitrogen
Research output: Chapter in Book/Report/Conference proceeding › Article in proceedings – Annual report year: 1993 › Research › peer-review

Continuum emission from irradiated solid deuterium
Research output: Contribution to journal › Journal article – Annual report year: 1992 › Research

Energy spectra from solid rare gases sputtered by light ions
Research output: Contribution to conference › Conference abstract for conference – Annual report year: 1992 › Research

Enhanced sputtering of solid neon by molecular ions
Research output: Contribution to journal › Journal article – Annual report year: 1992 › Research › peer-review

Evaporation yields of solid nitrogen induced by UV-laser irradiation
Research output: Contribution to conference › Conference abstract for conference – Annual report year: 1992 › Research

Iskugler af brint er brændstof til fusionsreaktorer
Research output: Contribution to journal › Journal article – Annual report year: 1992 › Communication

Projectile- and charge-state-dependent electron yields from ion penetration of solids as a probe of preequilibrium stopping power
Research output: Contribution to journal › Journal article – Annual report year: 1992 › Research

Sputtering of solid hydrogenic targets by keV hydrogen ions
Research output: Contribution to conference › Conference abstract for conference – Annual report year: 1992 › Research

Sputtering of solid neon and argon by medium mass ions
Research output: Contribution to journal › Journal article – Annual report year: 1992 › Research › peer-review

Sputtering of solid nitrogen by keV helium ions
Research output: Contribution to conference › Conference abstract for conference – Annual report year: 1992 › Research
**Ion Energy Dissipation and Sputtering during Bombardment of Multicomponent Materials**


Research output: Chapter in Book/Report/Conference proceeding › Article in proceedings – Annual report year: 1989 › Research › peer-review

**Observation of Fluorescence from Heavy Rare-gas Hydrides and Deuterides in Electron-Irradiated Matrices of Solid Hydrogen and Deuterium**


Research output: Contribution to journal › Journal article – Annual report year: 1989 › Research › peer-review

**Secondary Electron Emission: Progress and Prospects**


Research output: Contribution to journal › Journal article – Annual report year: 1989 › Research › peer-review

**Electronic and Knock-on Sputtering of Solid Rare Gases by Light keV Ions**


Research output: Contribution to journal › Journal article – Annual report year: 1988 › Research › peer-review

**Erosion of Rare Gas Solids by Electron Bombardment**


Research output: Contribution to journal › Journal article – Annual report year: 1988 › Research › peer-review

**Range and Stopping Power of keV Electrons in the Solid Hydrogens**


Research output: Contribution to journal › Journal article – Annual report year: 1988 › Research › peer-review

**Secondary-Electron Emission from Solids by Electron and Proton-Bombardment**


Research output: Contribution to journal › Journal article – Annual report year: 1988 › Research › peer-review

**Electronic Sputtering of Solid Argon and Krypton by keV Hydrogen Ions**


Research output: Contribution to journal › Journal article – Annual report year: 1987 › Research › peer-review

**Sputtering of Frozen Gases**


Research output: Contribution to journal › Journal article – Annual report year: 1987 › Research › peer-review

**Electronic sputtering of solid nitrogen and oxygen by keV electrons**


Research output: Contribution to journal › Journal article – Annual report year: 1986 › Research › peer-review

**Erosion of solid neon by keV electrons**


Research output: Contribution to journal › Journal article – Annual report year: 1986 › Research › peer-review
Sputtering of solid neon by keV hydrogen ions
Research output: Contribution to journal › Journal article – Annual report year: 1986 › Research › peer-review

The Erosion of Condensed Gases by keV Electron Bombardment
Research output: Chapter in Book/Report/Conference proceeding › Article in proceedings – Annual report year: 1985 › Research › peer-review

The Range of 1-3 keV Electrons in Solid Oxygen and Carbon Monoxide.
Research output: Contribution to journal › Journal article – Annual report year: 1985 › Research › peer-review

Range Measurements of keV Hydrogen Ions in Solid Oxygen and Carbon Monoxide
Research output: Contribution to journal › Journal article – Annual report year: 1984 › Research › peer-review

The Measurement of Electron-Induced Erosion of Condensed Gases: Experimental Methods
Research output: Contribution to journal › Journal article – Annual report year: 1984 › Research › peer-review

Festkörperanalysen Mittels Nachionisation Zerstäubter Neutralteilchen
Research output: Contribution to journal › Journal article – Annual report year: 1983 › Research › peer-review

Secondary electron emission from solid HD and a solid H2-D2 mixture
Research output: Contribution to journal › Journal article – Annual report year: 1983 › Research › peer-review

Charged Particle Erosion of Solid Rare Gases and Dilute Rare Gas Alloys
Research output: Contribution to journal › Journal article – Annual report year: 1982 › Research › peer-review

On the Emission of Electrons from Solid H_2 and D_2 by Bombardment with 1-3 keV Electrons up to Very Large Angles of Incidence
Research output: Contribution to journal › Journal article – Annual report year: 1982 › Research › peer-review

Probe Measurements of the Impurity Flux at the Plasma Edge of the Stellerator Wendelstein VII A
Research output: Contribution to journal › Journal article – Annual report year: 1982 › Research › peer-review

Sputtered Clusters from Niobium-Vanadium Alloys
Research output: Contribution to journal › Journal article – Annual report year: 1982 › Research › peer-review

Comments to transport theory for secondary electron emission
Research output: Book/Report › Report – Annual report year: 1980 › Research
Erosion of Thin Films of D2 by keV Light Ions
Research output: Chapter in Book/Report/Conference proceeding › Article in proceedings – Annual report year: 1980 › Research

Ion-Induced Emission of Charged Particles from Solid Hydrogen and Deuterium
Research output: Contribution to journal › Journal article – Annual report year: 1980 › Research › peer-review

Transport Theory for Kinetic Emission of Secondary Electrons from Solids
Research output: Contribution to journal › Journal article – Annual report year: 1980 › Research › peer-review

Direct and Recoil-Induced Electron Emission from Ion-Bombarded Solids
Research output: Contribution to journal › Journal article – Annual report year: 1979 › Research › peer-review

Studies on keV and eV electrons in solids
Research output: Book/Report › Report – Annual report year: 1979 › Research

Energy Reflection Coefficients for 5-10 keV He Ions Incident on Au, Ag, and Cu
Research output: Contribution to journal › Journal article – Annual report year: 1978 › Research › peer-review

Interaction between Solid Nitrogen and 1-3-keV Electrons
Research output: Contribution to journal › Journal article – Annual report year: 1978 › Research › peer-review

On Secondary Electron Emission from Solid H2 and D2
Research output: Contribution to journal › Journal article – Annual report year: 1978 › Research › peer-review

PENETRATION DEPTH OF 0.5-3-KEV ELECTRONS IN SOLID HYDROGEN AND DEUTERIUM
Research output: Contribution to journal › Journal article – Annual report year: 1978 › Research › peer-review

Projects:

New thin solar cell films makes silicon cells better
Martinho, F. M. A., Schou, J., Stamate, E. & Canulescu, S.
Forskningsrådsfinansiering
01/08/2017 → 31/07/2020
Project: PhD

New thin solar cell films makes silicon cells better
Gansukh, M., Schou, J. & Canulescu, S.
Technical University of Denmark
01/04/2017 → 31/03/2020
Project: PhD

Compressed sensing for material characterization and simulation
Reagentless dissolved Oxygen-sensor for Microfluidic Applications (water/blood analysis)
Jensen, M. F., Geschke, O., Hansen, H. N., Drese, K. S., Schou, J. & Christensen, L.
Erhvervsforskerordningen
01/10/2001 → 02/02/2005
Project: PhD

Fabrication and Characterization of Mixed Ionic Electronic Conducting Thin Films for Use in Solid Oxide Fuel Cells
Forskningsrådssfinansiering
01/12/2007 → 31/08/2011
Project: PhD

Thin-film Deposition and Characterization of new Solar Cell Materials
Engberg, S. L. J., Schou, J., Grivel, J., Cabot, A., Grossberg, M. & Lam, Y. M.
Forskningsrådssfinansiering
15/08/2013 → 08/02/2017
Project: PhD

Thin-film deposition and characterization of new solar cell materials
Ettlinger, R. B., Schou, J., Jepsen, P. U., Laurynenka, A., Nistor, M. G. & Eason, R.
Forskningsrådssfinansiering
01/08/2013 → 08/02/2017
Project: PhD

Thin-film deposition an characterization of new solar cell materials
Cazzaniga, A. C., Schou, J., Pryds, N., Petersen, P. M., Lunney, J. & Siebentritt, S.
Forskningsrådssfinansiering
01/06/2013 → 30/09/2016
Project: PhD

New technology for fast localization and characterization of faults in solar cell systems
Poulsen, P. B., Thorsteinsson, S., Schou, J. & Hansen, O.
EUDP
01/01/2015 → 31/01/2016
Project: Research

Rheed
Schou, J.
03/01/2007 → 27/03/2007
Project: Research

Large area pulsed laser deposition (PLD)
Schou, J.
03/01/2007 → 21/05/2007
Project: Research

Wear Control : Wear control of tribological hard coatings with embedded optical nanolayers
Schou, J.
20/02/2006 → 20/09/2009
Project: Research

Activities:
Assessment of the photovoltaic properties of CZTS grown on representative Si solar cell structures for monolithic CZTS/Si tandem applications
Filipe Mesquita Alves Martinho (Speaker), Alireza Hajijafarassar (Other), Simón López Mariño (Other), Moises Espindola Rodriguez (Other), Mungunshagai Gansukh (Other), Stela Canulescu (Other), Eugen Stamate (Other), Sara Lena Josefin Engberg (Other), Ole Hansen (Other), Andrea Crovetto (Other), Jørgen Schou (Other)
29 Nov 2018
Activity: Talks and presentations › Conference presentations

Development of CZTS absorbers by sputter deposition for application in CZTS/Si tandem photovoltaics: The Copper problem
Filipe Mesquita Alves Martinho (Speaker), Alireza Hajijafarassar (Other), Stela Canulescu (Other), Eugen Stamate (Other), Simón López Mariño (Other), Moises Espindola Rodriguez (Other), Mungunshagai Gansukh (Other), Sara Lena Josefin Engberg (Other), Ole Hansen (Other), Andrea Crovetto (Other), Jørgen Schou (Other)
22 Jun 2018
Activity: Talks and presentations › Conference presentations

Advanced Concepts in Photovoltaics
Peter Behrens Dorff Poulsen (Organizer), Gisele Alves dos Reis Benatto (Organizer), Jørgen Schou (Organizer)
10 Oct 2017 → 13 Oct 2017
Activity: Attending an event › Participating in or organising workshops, courses, seminars etc.

Pulsed laser deposition (PLD) of the CZTS absorber for thin solar cells with up to 5.2-%-efficiency
Jørgen Schou (Guest lecturer), Andrea Carlo Cazzaniga (Other), Stela Canulescu (Other), Andrea Crovetto (Other), Rebecca Bolt Ettlinger (Other), Nini Pryds (Guest lecturer), Ole Hansen (Other), Chang Yan (Other), Kaiwen Sun (Other), Xiaojing Hao (Other)
26 Jun 2017 → 30 Jun 2017
Activity: Talks and presentations › Conference presentations

EMRS Spring meeting 2017
Jørgen Schou (Participant), Andrea Carlo Cazzaniga (Participant), Stela Canulescu (Organizer), Rebecca Bolt Ettlinger (Participant), Nini Pryds (Participant), Ole Hansen (Organizer), Andrea Crovetto (Organizer), Chang Yan (Participant), Kaiwen Sun (Participant), Xiaojing Hao (Participant)
23 May 2017
Activity: Attending an event › Participating in or organising a conference

High-energy deposition methods for CZTS and CTS solar cells
Jørgen Schou (Other), Rebecca Bolt Ettlinger (Guest lecturer), Andrea Carlo Cazzaniga (Other), Stela Canulescu (Other), K. Normann (Other), F. Pattini (Other), Stefano Rampino (Other), Eduardo Gilioli (Other)
22 May 2017 → 23 May 2017
Activity: Talks and presentations › Conference presentations

Materials Research Society Spring Meeting 2017
Jørgen Schou (Organizer), Andrea Carlo Cazzaniga (Participant), Andrea Crovetto (Participant), Rebecca Bolt Ettlinger (Participant), Sara Lena Josefin Engberg (Participant), Stela Canulescu (Participant), Nini Pryds (Participant), Ole Hansen (Participant), Chang Yan (Participant), Kaiwen Sun (Participant), Xiaojing Hao (Participant)
17 Apr 2017 → 21 Apr 2017
Activity: Attending an event › Participating in or organising workshops, courses, seminars etc.

Compression of dry lysozyme targets: A new parameter in protein thin film production by PLD
Jørgen Schou (Speaker)
1 Sep 2016
Activity: Talks and presentations › Conference presentations

Annual Meeting of the Danish Physical Society
Jørgen Schou (Participant)
6 Jun 2016 → 7 Jun 2016
Activity: Attending an event › Participating in or organising a conference
Annual Meeting of the Danish Physical Society
Jørgen Schou (Participant)
6 Jun 2016 → 7 Jun 2016
Activity: Attending an event › Participating in or organising a conference

Jørgen Schou (Participant)
30 Mar 2016
Activity: Attending an event › Participating in or organising a conference

Lys revolutionerer fysikken såvel som vores dagligdag
Jørgen Schou (Lecturer)
20 Oct 2015
Activity: Talks and presentations › Conference presentations

Laserens vej fra specialfysik til dagligdag:
Jørgen Schou (Lecturer)
24 Sep 2015
Activity: Talks and presentations › Conference presentations

Sputtering of solid deuterium below 3 K by keV electrons: An extreme case of electronic sputtering at low temperature.
Jørgen Schou (Lecturer)
22 Sep 2015
Activity: Talks and presentations › Conference presentations

Lys der har ændret vores verdensbillede og vort dagligliv
Jørgen Schou (Lecturer)
17 Sep 2015
Activity: Talks and presentations › Conference presentations

Morphology of Copper Tin Sulfide Films Grown by Pulsed Laser Deposition at 248 and 355 nm
Jørgen Schou (Lecturer)
30 Aug 2015 → 4 Sep 2015
Activity: Talks and presentations › Conference presentations

CZTS a new environmentally friendly material for thin film solar cells
Jørgen Schou (Speaker)
9 Jun 2015 → 12 Jun 2015
Activity: Talks and presentations › Conference presentations

2014 MRS Spring Meeting
Jørgen Schou (Participant)
5 May 2015 → 10 May 2015
Activity: Attending an event › Participating in or organising a conference

Laseren - de første 50 år:
Jørgen Schou (Speaker)
12 Mar 2015
Activity: Talks and presentations › Conference presentations

10th International Conference on Cryocrystals and Quantum Crystals (invited) (CC-2014)
Jørgen Schou (Lecturer)
31 Aug 2014
Activity: Talks and presentations › Conference presentations
Pulsed laser deposition (PLD) of dielectrics – is femtosecond laser ablation better than nanosecond ablation? (Invited Talk)
Jørgen Schou (Lecturer)
21 Apr 2014 → 25 Apr 2014
Activity: Talks and presentations › Conference presentations

Investigating the fragmentation of C60 by Matrix Assisted Pulsed Laser Evaporation
Jørgen Schou (Speaker)
15 Aug 2010 → 20 Aug 2010
Activity: Talks and presentations › Conference presentations

International High-Power Laser Ablation Conference (HPLA): [invited]
Jørgen Schou (Speaker)
18 Apr 2010 → 22 Apr 2010
Activity: Talks and presentations › Conference presentations

NanoDay at DTU: nm-thin films produced by pulsed laser deposition - a direction for new materials
Jørgen Schou (Speaker)
7 Dec 2009
Activity: Talks and presentations › Conference presentations

10th International Conference on Laser Ablation
Jørgen Schou (Chairman)
24 Nov 2009
Activity: Attending an event › Participating in or organising workshops, courses, seminars etc.

International Conference on Laser Ablation (COLA); 10: energetics of laser ablation plume expanding in a background gas
Jørgen Schou (Speaker)
23 Nov 2009
Activity: Talks and presentations › Conference presentations

2010 FONDECYT - National Research Funding Competition (FONDECYT) (Journal)
Jørgen Schou (Reviewer)
12 Oct 2009
Activity: Editorial work and peer review › Peer review of manuscripts › Research

Den Nordiske Konference for de fysiske selskaber
Jørgen Schou (Chairman)
16 Jun 2009 → 18 Jun 2009
Activity: Attending an event › Participating in or organising workshops, courses, seminars etc.

The Twelfth International Workshop on Desorption Induced by Electronic Transitions (DIET XII); 12
Jørgen Schou (Speaker)
21 Apr 2009
Activity: Talks and presentations › Conference presentations