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

Fatigue of multiscale composites with secondary nanoplatelet reinforcement: 3D computational analysis
Dai, G. & Mishnaevsky, L. J. 2014 In : Composites Science and Technology. 91, p. 71-81
Publication: Research - peer-review › Journal article – Annual report year: 2014

FEM model of Embedded Fibre Bragg Grating Sensor Response: Crack Growing Detection
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Gradient ultrafine-grained titanium: Computational study of mechanical and damage behavior
Publication: Research - peer-review › Journal article – Annual report year: 2014

Graphene reinforced nanocomposites: 3D simulation of damage and fracture
Publication: Research - peer-review › Journal article – Annual report year: 2014

Hierarchical nanoreinforced composites for highly reliable large wind turbines: Computational modelling and optimization
Publication: Research - peer-review › Conference abstract in proceedings – Annual report year: 2014

Hybrid and hierarchical nanoreinforced polymer composites: Computational modelling of structure–properties relationships
Publication: Research - peer-review › Journal article – Annual report year: 2014

Hybrid carbon/glass fiber composites: Micromechanical analysis of structure–damage resistance relationships
Publication: Research - peer-review › Journal article – Annual report year: 2014

MARE-WINT: New Materials and Reliability in Offshore Wind Turbines Technology
Publication: Research - peer-review › Article in proceedings – Annual report year: 2014

Micro-macro understanding of fatigue of fibre composites
Micromechanical failure in fiber-reinforced composites

Micro-Plasto-Hydrodynamic Lubrication a Fundamental Mechanism in Cold Rolling

Microscale damage mechanisms and degradation of fiber-reinforced composites for wind energy applications: results of Danish–Chinese collaborative investigations

Microstructural characterization of stone wool fibre network

Mixed Mode cohesive law with interface dilatation
Serensen, B. F. & Goutianos, S. 2014 In : Mechanics of Materials. 70, p. 76-93

Nanostructured titanium-based materials for medical implants: Modeling and development

Natural Composites: Cellulose Fibres and the related Performance of Composites

Non-equilibrium grain boundaries in titanium nanostructured by severe plastic deformation: Computational study of sources of material strengthening

Optimal Design of Composite Structures Under Manufacturing Constraints

Orientation of PLLA tubes under simultaneous biaxial strain

Particle tracking velocimetry of a gliding arc discharge
Plasma treatment of carbon fibres and glass-fibre-reinforced polyesters at atmospheric pressure for adhesion improvement
Publication: Research - peer-review › Journal article – Annual report year: 2014

Protocol for Quantification of Defects in Natural Fibres for Composites
Publication: Research - peer-review › Journal article – Annual report year: 2015

Recycling of wind turbines
Publication: Research - peer-review › Book chapter – Annual report year: 2014

Recycling solid residues recovered from glass fibre-reinforced composites – A review applied to wind turbine blade materials
Publication: Research - peer-review › Journal article – Annual report year: 2014

Smart Rotor Research at DTU Wind
Publication: Research › Sound/Visual production (digital) – Annual report year: 2014

Stability of alternating current gliding arcs
Publication: Research - peer-review › Journal article – Annual report year: 2014

Strain Gauge Design for Compliant Materials
Mikkelsen, L. P. & Gili, J. 2014
Publication: Research › Conference abstract for conference – Annual report year: 2014

Sustained diffusive alternating current gliding arc discharge in atmospheric pressure air
Publication: Research - peer-review › Journal article – Annual report year: 2014

Towards an industrial manufactured morphing trailing edge flap system for wind turbines
Publication: Research - peer-review › Article in proceedings – Annual report year: 2014

Towards an Industrial Manufactured Morphing Trailing Edge Flap System for Wind Turbines
Publication: Research - peer-review › Poster – Annual report year: 2014

Translational, rotational and vibrational temperatures of a gliding arc discharge at atmospheric pressure air
Publication: Research - peer-review › Article in proceedings – Annual report year: 2014
Volumetric composition: Fiber content and porosity
Publication: Research - peer-review › Book chapter – Annual report year: 2015

2D micromechanical analysis of SiC/Al metal matrix composites under tensile, shear and combined tensile/shear loads
Qing, H. 2013 In : Materials & Design. 51, p. 438-447
Publication: Research - peer-review › Journal article – Annual report year: 2013

3D in situ observations of glass fibre/matrix interfacial debonding
Publication: Research - peer-review › Journal article – Annual report year: 2013

Adhesion improvement of fibres by continuous plasma treatment at atmospheric pressure
Publication: Research - peer-review › Conference article – Annual report year: 2013

Adhesion improvement of glass-fibre-reinforced polyester composites by gliding arc discharge treatment
Kusano, Y., Sørensen, B. F., Legstrup Andersen, T. & Leipold, F. 2013 In : Journal of Adhesion. 89, p. 433-459
Publication: Research - peer-review › Journal article – Annual report year: 2013

Advances in wind turbine blade design and materials
Publication: Research - peer-review › Book – Annual report year: 2013

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

Analysis of composition and microstructural uniformity of hybrid glass/carbon fibre composites
Publication: Research - peer-review › Conference article – Annual report year: 2013

A new theoretical model of the quasistatic single-fiber pullout problem: Analysis of stress field
Qing, H. 2013 In : Mechanics of Materials. 60, p. 66-79
Publication: Research - peer-review › Journal article – Annual report year: 2013

Application for Wind Turbine Blades
Publication: Research - peer-review › Book chapter – Annual report year: 2013

Biobased composites: materials, properties and potential applications as wind turbine blade materials
Publication: Research - peer-review › Book chapter – Annual report year: 2013
Bonding characteristics of glass seal/metallic interconnect for SOFC applications: Comparative study on chemical and mechanical properties of the interface
Publication: Research - peer-review › Poster – Annual report year: 2013

Bondlines – Online blade measurements (October 2012 and January 2013)
McGugan, M. & Chiesura, G. 2013 DTU Wind Energy. 68 p. (DTU Wind Energy E; No. 0036(EN)).
Publication: Research › Report – Annual report year: 2013

Compressive damage mechanism of GFRP composites under off-axis loading: Experimental and numerical investigations
Publication: Research - peer-review › Journal article – Annual report year: 2013

Damage evolution in nanoclay-reinforced polymers: A three-dimensional computational study
Dai, G. & Mishnaevsky, L. 2013 In : Composites Science and Technology. 74, p. 67-77
Publication: Research - peer-review › Journal article – Annual report year: 2013

DCB Test Sample Design for Micro-Mechanical Testing
Publication: Research - peer-review › Article in proceedings – Annual report year: 2013

Design and manufacturing of a morphing flap for wind turbine blades
Publication: Research - peer-review › Article in proceedings – Annual report year: 2013

Determination of the gel point of a polyfurfuryl alcohol resin and characterization of its curing rheokinetics
Publication: Research - peer-review › Conference article – Annual report year: 2013

Determination of the minimum size of a statistical representative volume element from a fibre-reinforced composite based on point pattern statistics
Hansen, J. Z. & Brøndsted, P. 2013 In : Scripta Materialia. 68, p. 503-505
Publication: Research - peer-review › Journal article – Annual report year: 2013

Editorial: Selected Publications of the EU FP7 project VIRTUAL NANOTITANIUM
Publication: Research - peer-review › Editorial – Annual report year: 2013

Effect of consolidation pressure on volumetric composition and stiffness of unidirectional flax fibre composites
Publication: Research - peer-review › Journal article – Annual report year: 2013

Effect of processing on fracture of binderfree all-cellulose composites
Publication: Research - peer-review › Conference article – Annual report year: 2013

Experimental and numerical study of the micro-mechanical failure in composites
Publication: Research - peer-review › Article in proceedings – Annual report year: 2013
Experimental Assessments and Analysis of Steel Fibre/Polyester Composites - Interface and Compression Failures
Publication: Research - peer-review › Conference abstract in proceedings – Annual report year: 2013

Experiments and Analyses for Determining Fibre/Matrix Interface Parameters – Understanding Debonding Problems
Publication: Research - peer-review › Conference article – Annual report year: 2013

Fatigue as a design driver for composite wind turbine blades
Publication: Research - peer-review › Book chapter – Annual report year: 2013

Fatigue R=0.1 E-series Reichhold
Rasmussen, S. 2013 DTU Wind Energy. (DTU Wind Energy I; No. 51).
Publication: Research › Report – Annual report year: 2013

Fibre waviness and misalignment measurement of unidirectional glass/LPET commingled composites – Effect on mechanical properties
Publication: Research - peer-review › Conference article – Annual report year: 2013

Implementing Advanced Materials Models in a Commercial Finite Element Code
Mikkelsen, L. P. & Mishnaevsky, L. 2013
Publication: Research - peer-review › Conference abstract for conference – Annual report year: 2013

Improved Compression Strength of Carbon/Glass/Epoxy Hybrid Composites
Publication: Research - peer-review › Article in proceedings – Annual report year: 2013

Influence of Temperature on Mechanical Properties of Jute/Biopolymer Composites
Publication: Research - peer-review › Journal article – Annual report year: 2013

Martensitic transformations in nanostructured nitinol: Finite element modeling of grain size and distribution effects
Liu, H-S. & Mishnaevsky, L. 2013 In : Computational Materials Science. 76, p. 27-36
Publication: Research - peer-review › Journal article – Annual report year: 2013
Mesh dependency of smeared-out non-linear composite finite element models of compressive failure mechanism in composite materials
Mikkelsen, L. P. 2013
Publication: Research - peer-review › Conference abstract for conference – Annual report year: 2013

Micromechanical modelling of wind turbine blade materials
Publication: Research - peer-review › Book chapter – Annual report year: 2013

Microstructure and Mechanical Properties of Aligned Natural Fibre Composites
Publication: Research › Ph.D. thesis – Annual report year: 2013

Monitoring debond crack propagation and pullouts for a composite interface – Pullout tests
Publication: Research - peer-review › Conference abstract in proceedings – Annual report year: 2013

Multivariate data-driven modelling and pattern recognition for damage detection and identification for acoustic emission and acousto-ultrasonics
Publication: Research - peer-review › Journal article – Annual report year: 2013

Optical diagnostics of a gliding arc
Publication: Research - peer-review › Journal article – Annual report year: 2013

Optimal Design of Composite Structures by Advanced Mixed Integer Nonlinear Optimization
Marmaras, K. & Stolpe, M. 2013
Publication: Research - peer-review › Conference abstract for conference – Annual report year: 2013

Optimal Design of Composite Structures by Advanced Mixed Integer Nonlinear Optimization
Marmaras, K., Stolpe, M., Lund, E. & Sørensen, R. 2013
Publication: Research › Sound/Visual production (digital) – Annual report year: 2013

Optimal Design of Composite Structures by Advanced Mixed Integer Nonlinear Optimization
Marmaras, K., Stolpe, M., Lund, E. & Sørensen, R. 2013
Publication: Research › Sound/Visual production (digital) – Annual report year: 2013

Performance of Biodegradable Polymers used in Mechanically Loaded Implants
Publication: Research › Ph.D. thesis – Annual report year: 2013

Polymer Nanocomposites for Wind Energy Applications: Perspectives and Computational Modeling
Publication: Research - peer-review › Conference article – Annual report year: 2013

Prediction of process induced shape distortions and residual stresses in large fibre reinforced composite laminates: With application to Wind Turbine Blades
Preliminary characterization of glass fiber sizing

Pretreatment of the macroalgae Chaetomorpha linum for the production of bioethanol - Comparison of five pretreatment technologies

Process conditions and volumetric composition in composites

Processing of fibre composites – challenges for maximum materials performance

Quantitative analysis of length-diameter distribution and cross-sectional properties of fibers from three-dimensional tomographic images

Quantitative study on the statistical properties of fibre architecture of genuine and numerical composite microstructures

Secondary stress effects during load introduction into unidirectional composite test coupons

Selection of environmental sustainable fiber materials for wind turbine blades - a contra intuitive process?

Stiffness of carbon fibre epoxy composite tube

Strain Gauge Application in Soft Material Testing

Surface modification of nanofibrillated cellulose films by atmospheric pressure dielectric barrier discharge
Siró, I., Kusano, Y., Normman, K., Goutianos, S. & Plackett, D. 2013 In : Journal of Adhesion Science and Technology. 27, 3, p. 294-308
Tensile and compression properties of hybrid composites – A comparative study
Publication: Research - peer-review › Article in proceedings – Annual report year: 2013

Testing composites for wind turbine blades
Mikkelsen, L. P. 2013
Publication: Research - peer-review › Conference abstract for conference – Annual report year: 2013

The effects of fibre architecture on fatigue life-time of composite materials
Hansen, J. Z., Brøndsted, P. & Østergaard, R. 2013 DTU Wind Energy. 188 p. (DTU Wind Energy PhD; No. 0018(EN)).
Publication: Research › Ph.D. thesis – Annual report year: 2013

Ultrasound enhanced 50 Hz plasma treatment of glass-fiber-reinforced polyester at atmospheric pressure
Publication: Research › peer-review › Journal article – Annual report year: 2012

Uncertainty modelling and code calibration for composite materials
Toft, H. S., Branner, K., Mishnaevsky, L. J. & Sørensen, J. D. 2013 In : Journal of Composite Materials. 47, 14, p. 1729-1747
Publication: Research › peer-review › Journal article – Annual report year: 2013

Volumetric composition in composites and historical data
Publication: Research › peer-review › Conference article – Annual report year: 2013

Wire tensile test kobber Poly-Tech
Publication: Research › Report – Annual report year: 2013

Wood versus plant fibers: Similarities and differences in composite applications
Publication: Research › peer-review › Journal article – Annual report year: 2013

A Pull-out Test for Determining Interface Properties Between Steel Fibre and Polyester: A Micromechanical Model and New Experimental Technique
Publication: Research › peer-review › Conference abstract in proceedings – Annual report year: 2012

Attribute Based Selection of Thermoplastic Resin for Vacuum Infusion Process: A Decision Making Methodology
Publication: Research › peer-review › Book chapter – Annual report year: 2012

Ballistic performance of micro- and nanostructured aluminium sheets
Mechanical processing of bast fibres: The occurrence of damage and its effect on fibre structure
Hänninen, T., Thygesen, A., Mehmood, S., Madsen, B. & Hughes, M. 2012 In : Industrial Crops and Products. 39, p. 7-11
Publication: Research - peer-review › Journal article – Annual report year: 2012

Methodology for characterisation of glass fibre composite architecture
Publication: Research - peer-review › Journal article – Annual report year: 2012

Micromechanical analysis of nanocomposites using 3D voxel based material model
Mishnaevsky, L. 2012 In : Composites Science and Technology. 72, 10, p. 1167-1177
Publication: Research - peer-review › Journal article – Annual report year: 2012

Micromechanics of hierarchical materials: A brief overview
Mishnaevsky, L. J. 2012 In : Reviews on Advanced Materials Science. 30, 1, p. 60-72
Publication: Research - peer-review › Journal article – Annual report year: 2012

Modeling of nano-reinforced polymer composites: Microstructure effect on Young's modulus
Publication: Research - peer-review › Journal article – Annual report year: 2012

Natural composites: Strength, packing ability and moisture sorption of cellulose fibres, and the related performance of composites
Publication: Research - peer-review › Article in proceedings – Annual report year: 2012

Path dependence of truss-like mixed mode cohesive laws
Publication: Research - peer-review › Journal article – Annual report year: 2012

Properties and performance of flax yarn/thermoplastic polyester composites
Publication: Research - peer-review › Journal article – Annual report year: 2012

Properties of Flax and Hemp composites
Publication: Research - peer-review › Book chapter – Annual report year: 2012

Strength and failure modes of ceramic multilayers
Publication: Research - peer-review › Journal article – Annual report year: 2012

Surface charging, discharging and chemical modification at a sliding contact
Publication: Research - peer-review › Journal article – Annual report year: 2012

Test Methods for Assessing Bimaterial Interfaces in Wind Turbine Blades
Sørensen, B. F. 2012 Abstracts. Indo-Danish Workshop On Future Composites Technologies for Wind Turbine Blades. p. 35-36
Publication: Research - peer-review › Conference abstract in proceedings – Annual report year: 2012
Bio4Self
Beauson, J., Mikkelsen, L. P., Madsen, B., Christensen, J. & Mishnaevsky, L.
01/03/2016 → ...
Project

Alliance for Imaging and Modelling of Energy Applications
01/01/2014 → 31/12/2018
Project

Future Technologies for Wind Energy: Blade materials, Turbine reliability, Computation tools, and Experimental methods
Raghavalu Thirumalai, D. P., Sørensen, B. F. & Mishnaevsky, L.
01/01/2013 → 31/12/2013
Project

Raghavalu Thirumalai, D. P., Sørensen, B. F. & Mishnaevsky, L.
01/02/2012 → 31/12/2012
Project

Theoretical analysis, design and virtual testing of biocompatibility and mechanical properties of titanium-based nanomaterials
Mishnaevsky, L. & Liu, H.
01/10/2011 → 31/03/2014
Project

Development of commercially viable wind power system in Nepal
Mishnaevsky, L.
31/05/2011 → 30/06/2013
Project

High reliability of large wind turbines via computational micromechanics based enhancement of materials performances
Mishnaevsky, L. & Dai, G.
01/05/2011 → 31/07/2015
Project

Danish Centre for Composites Structures and Materials for Wind Turbines
01/04/2010 → 31/03/2017
Project

3D virtual testing of composites for wind energy applications: Computational mesomechanics approach
Mishnaevsky, L.
01/05/2009 → 31/05/2011
Project

Development of wind energy technologies in Nepal on the basis of natural materials
Mishnaevsky, L.
01/11/2007 → 31/08/2011
Project
Activities:

**Specimen design and instrumentation for monitoring fatigue crack growth initiating at ply drops**
Goutianos, S. (Speaker), Di Crescenzo, L. (Speaker), McGugan, M. (Speaker), Sørensen, B. F. (Speaker)
8 Nov 2017 → 9 Nov 2017
Activity: Talks and presentations › Conference presentations

**Investigation of the flow in a rain erosion tester**
Bak, C. (Speaker), Sørensen, N. N. (Other), Olsen, A. S. (Other), Bech, J. I. (Other), Gaunaa, M. (Other), Kusano, Y. (Other)
27 Feb 2017
Activity: Talks and presentations › Conference presentations

**Compression Fatigue Testing and Damage in UD Glass Fibre Composites**
Fraisse, A. (Other), Brøndsted, P. (Speaker)
12 Dec 2016
Activity: Talks and presentations › Conference presentations

**NAFEMS Nordic Steering Committee (NNSC) (External organisation)**
Mikkelsen, L. P. (Participant)
2015 → …
Activity: Membership › Membership of committees, commissions, boards, councils, associations, organisations, or similar

**Innovation from JSME 2015**
Jespersen, K. M. (Participant)
14 Nov 2015 → 15 Nov 2015
Activity: Attending an event › Participating in or organising workshops, courses, seminars etc.

**Challenges of using composite materials for large wind turbine blades**
Mikkelsen, L. P. (Lecturer)
2 Nov 2015
Activity: Talks and presentations › Conference presentations

**Scientific Computing Using Python - 1**
Jespersen, K. M. (Participant)
2 Jun 2015 → 4 Jun 2015
Activity: Attending an event › Participating in or organising workshops, courses, seminars etc.

**Fracture Mechanics for Laminated Composite Structures**
Jespersen, K. M. (Participant)
18 May 2015 → 22 May 2015
Activity: Attending an event › Participating in or organising workshops, courses, seminars etc.

**DTU Energy Conversion 2nd International PhD Summer School**
Jespersen, K. M. (Participant)
Activity: Attending an event › Participating in or organising workshops, courses, seminars etc.

**DCAMM’s Videnskabelige Råd (External organisation)**
Mikkelsen, L. P. (Participant)
2013 → …
Activity: Membership › Membership of committees, commissions, boards, councils, associations, organisations, or similar

**19th International Conference on Composite Materials**
Zike, S. (Participant)
29 Jul 2013
Activity: Attending an event › Participating in or organising a conference

**6th International Conference on Composites Testing and Model Identification**
Zike, S. (Participant)
22 Apr 2013 → 24 Apr 2013
Activity: Attending an event › Participating in or organising a conference

**DCAMM 14th Internal Symposium**
Zike, S. (Participant)
13 Mar 2013 → 15 Mar 2013
Activity: Attending an event › Participating in or organising a conference

**DTU Wind Energy’s Board of Studies (Studienævn) (External organisation)**
Mikkelsen, L. P. (Participant)
2012 → …
Activity: Membership › Membership of committees, commissions, boards, councils, associations, organisations, or similar

**Polymers - Experimental characterization and numerical predictions**
Zike, S. (Participant)
19 Sep 2012 → 20 Sep 2012
Activity: Attending an event › Participating in or organising workshops, courses, seminars etc.

**Composites Design Workshop VII**
Zike, S. (Participant)
14 Aug 2012 → 23 Aug 2012
Activity: Attending an event › Participating in or organising workshops, courses, seminars etc.

**Multiscale Modelling of Complex Materials**
Zike, S. (Participant)
21 May 2012 → 25 May 2012
Activity: Attending an event › Participating in or organising workshops, courses, seminars etc.

**Risø DTU Board of Studies (External organisation)**
Mikkelsen, L. P. (Participant)
2007 → 2012
Activity: Membership › Membership of committees, commissions, boards, councils, associations, organisations, or similar

Press clippings:

**An Overview of 3D X-ray Microscopy**
Lars Pilgaard Mikkelsen
19/02/2018
1 media contribution
Press / Media

**Forskningens døgn - forskning for fremtiden**
Lars Pilgaard Mikkelsen
29/04/2017
1 item of media coverage
Press / Media

**Biofibre på spring til industri**
Bo Madsen
29/05/2015
1 media contribution
Press / Media