Jens Henrik Nielsen - DTU Orbit (26/01/2019)

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Research outputs:

Investigating the strength effects of drilling in tempered glass: A first step towards a novel dowel joint
Research output: Research - peer-review › Journal article – Annual report year: 2019

An experimental investigation of the flexural strength of soda–lime–silica glass at high loading rates
Research output: Research - peer-review › Journal article – Annual report year: 2018

Frame shading widths influence on glazings reaction to fire
Research output: Research - peer-review › Article in proceedings – Annual report year: 2018

Glass is all around us!
Research output: Research - peer-review › Editorial – Annual report year: 2018

More glass; more challenges!
Research output: Research › Editorial – Annual report year: 2018

Project families: How to improve learning in thesis work and increase impact on research
Research output: Communication › Sound/Visual production (digital) – Annual report year: 2018

Project families: How to improve learning in thesis works and increase impact on research
Research output: Research › Report – Annual report year: 2018

Research from across the life-cycle of glass
Research output: Research › Editorial – Annual report year: 2018

Deformations and strain energy in fragments of tempered glass: experimental and numerical investigation
Research output: Research - peer-review › Journal article – Annual report year: 2018

Glass Structures & Engineering
Research output: Research › Editorial – Annual report year: 2018

Project families: A new concept for student thesis activities
Research output: Research - peer-review › Conference abstract in proceedings – Annual report year: 2017

The influence of plate thickness on the welding residual stresses from submerged arc welding in offshore steel structures
Research output: Research - peer-review › Conference article – Annual report year: 2017
Editorial: Glass Structures & Engineering, second issue: the Glass Age?!  
Research output: Research › Editorial – Annual report year: 2016

Glass Structures & Engineering, Themed Issue: Challenging Glass  
Research output: Research › Editorial – Annual report year: 2016

Numerical simulation of residual stresses at holes near edges and corners in tempered glass: A parametric study  
Research output: Research - peer-review › Book chapter – Annual report year: 2016

Remaining stress-state and strain-energy in tempered glass fragments  
Research output: Research - peer-review › Journal article – Annual report year: 2016

Stress relaxation in tempered glass caused by heat soak testing  
Research output: Research - peer-review › Journal article – Annual report year: 2016

A critical flaw size approach for predicting the strength of bolted glass connections  
Research output: Research - peer-review › Journal article – Annual report year: 2013

A model for spalling of HPC thin plates exposed to fire  
Research output: Research - peer-review › Article in proceedings – Annual report year: 2013

Exploratory experimental investigations on post-tensioned structural glass beams  
Research output: Research - peer-review › Article in proceedings – Annual report year: 2013

Fire performance of basalt FRP mesh reinforced HPC thin plates  
Research output: Research - peer-review › Article in proceedings – Annual report year: 2013

Numerical analyses of the effect of SG-interlayer shear stiffness on the structural performance of reinforced glass beams  
Research output: Research - peer-review › Article in proceedings – Annual report year: 2013

Numerical analyses of the effect of SG-interlayer shear stiffness on the structural performance of reinforced glass beams  
Research output: Research - peer-review › Article in proceedings – Annual report year: 2013

Numerical investigation of a novel connection in tempered glass using holes drilled after tempering  
Research output: Research - peer-review › Article in proceedings – Annual report year: 2013

Ongoing Model Development Analyzing Glass Fracture  
Research output: Research - peer-review › Article in proceedings – Annual report year: 2013

Thermal Tempering Simulation  
Research output: Research - peer-review › Conference abstract for conference – Annual report year: 2013

Drilling in tempered glass – modelling and experiments  
Research output: Research - peer-review › Paper – Annual report year: 2012

Annual Report 2009  
Research output: Communication › Report – Annual report year: 2009

Characterization of the Residual Stress State in Commercially Fully Toughened Glass  
Research output: Research - peer-review › Journal article – Annual report year: 2010
Finite Element Implementation of a Glass Tempering Model in Three Dimensions
Research output: Research › peer-review › Journal article – Annual report year: 2010

Joints in Tempered Glass Using Glass Dowel Discs
Research output: Research › peer-review › Paper – Annual report year: 2010

Post-crack capacity of mechanically reinforced glass beams (MRGB)
Research output: Research › peer-review › Article in proceedings – Annual report year: 2010

Simulation of Residual Stresses at Holes in Tempered Glass
Research output: Research › peer-review › Journal article – Annual report year: 2010

Tempered Glass: Bolted Connections and Related Problems
Research output: Research › Ph.D. thesis – Annual report year: 2009

Design of Mechanically Reinforced Glass Beams: Modelling and Experiments
Research output: Research › peer-review › Journal article – Annual report year: 2009

The Fracture Process of Tempered Soda-Lime-Silica Glass
Research output: Research › peer-review › Journal article – Annual report year: 2009

Experimental Investigation of Residual Stresses in Toughened Glass
Research output: Research › peer-review › Article in proceedings – Annual report year: 2008

Properties of an Adhesive for Structural Glass Applications
Research output: Research › peer-review › Article in proceedings – Annual report year: 2008

The Use and Properties of Toughened Glass
Research output: Research › Book chapter – Annual report year: 2007

An Implementation of 3D viscoelastic behavior for glass during toughening
Research output: Research › peer-review › Article in proceedings – Annual report year: 2007

Connections in Glass Structures: Lecture notes for Course 11365
Research output: Education › Compendium/lecture notes – Annual report year: 2007

Mechanically reinforced glass beams
Research output: Research › peer-review › Article in proceedings – Annual report year: 2007

Modeling of Residual Stresses In Toughened Glass
Research output: Research › peer-review › Article in proceedings – Annual report year: 2007

Projects:

Blast loading on glass in facades
Project: PhD

The Properties and Structural Use of Toughened Glass
Project: PhD
Activities:

**Engineered Transparency Conference 2018**  
Activity: Attending an event › Participating in or organising workshops, courses, seminars etc.

**IABSE Conference 2018**  
Activity: Attending an event › Participating in or organising a conference

**challenging glass conference**  
Activity: Attending an event › Participating in or organising a conference

**Structural Glass Facades: From sketch to the final construction**  
Activity: Talks and presentations › Guest lectures, external teaching and course activities at other universities

**Glass Performance Days**  
Activity: Talks and presentations › Conference presentations

**Engineered Transparency Conference 2016**  
Activity: Attending an event › Participating in or organising a conference

**Examination board, Ph.D. Joren Pelfrene: "Numerical Analysis of the Post-Fracture Response of Laminated Glass under Impact and Blast Loading", TU Gent (External organisation)**  
Activity: Membership › Membership of committees, commissions, boards, councils, associations, organisations, or similar

**International Association for Bridge and Structural Engineering (External organisation)**  
Activity: Membership › Membership of committees, commissions, boards, councils, associations, organisations, or similar

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Activity: Membership › Membership of committees, commissions, boards, councils, associations, organisations, or similar

**Glass Structures & Engineering (Journal)**  
Activity: Research › Journal editor

**Scientific Committee member for the international conference "Challenging Glass" (External organisation)**  
Activity: Membership › Membership in review committee

**ESR workshop 2014**  
Activity: Talks and presentations › Conference presentations

**COST-Action TU0905, TG7: Numerical know how and validation of numerical work. (External organisation)**  
Activity: Membership › Membership of research networks or expert groups

**Thermal Tempering Simulation**  
Activity: Talks and presentations › Conference presentations

**Numerical modeling of glass components**  
Activity: Talks and presentations › Guest lectures, external teaching and course activities at other universities

**Scientific Committee member for the international conference "Engineered Transparency" (External organisation)**  
Activity: Membership › Membership in review committee
UDTU
Activity: Attending an event › Participating in or organising workshops, courses, seminars etc.

COST Action TU0905 : STRUCTURAL GLASS - Novel Design Methods and Next Generation Products (External organisation)
Activity: Membership › Membership of committees, commissions, boards, councils, associations, organisations, or similar

Nonlinear finite element analysis
Activity: Attending an event › Participating in or organising workshops, courses, seminars etc.

6th Glass Stress Summerschool
Activity: Attending an event › Participating in or organising workshops, courses, seminars etc.

Computational Contact Mechanics
Activity: Attending an event › Participating in or organising workshops, courses, seminars etc.

Abaqus training courses I & II
Activity: Attending an event › Participating in or organising workshops, courses, seminars etc.

Prizes:

Annual DTU Award for developing Teaching and Learning
Prize: Prizes, scholarships, distinctions

DTU-Byg Ph.D. thesis of the year
Prize: Prizes, scholarships, distinctions

The Outstanding Paper Award 2009 (IABSE)
Prize: Prizes, scholarships, distinctions