Grunde Jomaas - DTU Orbit (19/01/2019)

Jomaas, Grunde

Research outputs:

**Experimental assessment of the robustness in fire of lightweight ship bulkheads**
Research output: Research - peer-review › Journal article – Annual report year: 2019

**Scaling analysis of ice melting during burning of oil in ice-infested waters**
Research output: Research - peer-review › Journal article – Annual report year: 2019

**A fire risk assessment model for residential high-rises with a single stairwell**
Research output: Research - peer-review › Journal article – Annual report year: 2018

**A simple correlation for monitoring the ignition propensity of wet nordic spruce wood**
Research output: Research - peer-review › Journal article – Annual report year: 2018

**Can a spreading flame over electric wire insulation in concurrent flow achieve steady propagation in microgravity?**
Research output: Research - peer-review › Journal article – Annual report year: 2018

**Convection-driven cavity formation in ice adjacent to externally heated flammable and non-flammable liquids**
Research output: Research - peer-review › Journal article – Annual report year: 2018

**Experimental Study of the Fire Behaviour on Flat Roof Constructions with Multiple Photovoltaic (PV) Panels**
Kristensen, J. S. & Jomaas, G. 2018 In : Fire Technology. 54, 6, p. 1807-1828
Research output: Research - peer-review › Journal article – Annual report year: 2018

**Experimental study of the performance of intumescent coatings exposed to standard and non-standard fire conditions**
Research output: Research - peer-review › Journal article – Annual report year: 2018

**Fire-induced reradiation underneath photovoltaic arrays on flat roofs**
Research output: Research - peer-review › Journal article – Annual report year: 2018

**Fire Performance of Sandwich Panels in a Modified ISO 13784-1 Small Room Test: The Influence of Increased Fire Load for Different Insulation Materials**
Research output: Research - peer-review › Journal article – Annual report year: 2018

**Pumice stones as potential in-situ burning enhancer**
Research output: Research - peer-review › Journal article – Annual report year: 2018
Research Investigations into Herder Fate, Effects and Windows of Opportunity
Research output: Research › Report – Annual report year: 2018

A study on burning behavior and convective flows in Methanol pool fires bound by ice
Research output: Research › peer-review › Article in proceedings – Annual report year: 2017

Convection-driven melting in an n-octane pool fire bounded by an ice wall
Research output: Research › peer-review › Journal article – Annual report year: 2017

Effectiveness of a chemical herder in association with in-situ burning of oil spills in ice-infested water
Research output: Research › peer-review › Journal article – Annual report year: 2016

Effect of Flow Direction on the Extinction Limit for Flame Spread over Wire Insulation in Microgravity
Research output: Research › peer-review › Paper – Annual report year: 2017

Effect of the Ignition Method on the Extinction Limit for a Flame Spreading over Electric Wire Insulation
Research output: Research › peer-review › Paper – Annual report year: 2017

Experimental study on the influence of different thermal insulation materials on the fire dynamics in a reduced-scale enclosure
Research output: Research › peer-review › Journal article – Annual report year: 2017

Firefighter Nozzle Reaction
Research output: Research › peer-review › Journal article – Annual report year: 2017

Fire-induced re-radiation underneath photovoltaic arrays on flat roofs
Research output: Research › peer-review › Article in proceedings – Annual report year: 2017

Ice & Fire: the Burning Question
Research output: Research › Communication › Journal article – Annual report year: 2017

Ongoing Research on Herding Agents for In Situ Burning in Arctic Waters: Studies on Fate and Effects
Research output: Research › peer-review › Paper – Annual report year: 2017
Parametric study on cavity formation during in-situ burning of oils in ice
Research output: Research - peer-review › Article in proceedings – Annual report year: 2017

Quantitative risk assessment of continuous liquid spill fires based on spread and burning behaviours
Research output: Research - peer-review › Journal article – Annual report year: 2017

Reducing the computational requirements for simulating tunnel fires by combining multiscale modelling and multiple processor calculation
Research output: Research - peer-review › Journal article – Annual report year: 2017

Spread and burning behavior of continuous spill fires
Research output: Research - peer-review › Journal article – Annual report year: 2017

The influence of vehicular obstacles on longitudinal ventilation control in tunnel fires
Research output: Research - peer-review › Journal article – Annual report year: 2017

Theoretical Analysis on Marangoni-driven Cavity Formation in Ice during In-situ Burning of Oil Spills in Ice-infested Waters -Paper Number IN43D-0096
Farahani, H. F., Jomaas, G. & Rangwala, A. S. 2017
Research output: Research - peer-review › Poster – Annual report year: 2017

The Parameters Controlling the Burning Efficiency of In-Situ Burning of Crude Oil on Water
Research output: Research - peer-review › Article in proceedings – Annual report year: 2017

Thermal properties and burning efficiency of crude oils and refined fuel oil
Research output: Research - peer-review › Article in proceedings – Annual report year: 2017

Vaporization order and burning efficiency of crude oils during in-situ burning on water
Research output: Research - peer-review › Journal article – Annual report year: 2017

A Helium-Technique Experimental Study of Longitudinal Ventilation Control in Sloped, Small-Scale Tunnels
Research output: Research - peer-review › Conference abstract in proceedings – Annual report year: 2016

An experimental study of the fire development of various sandwich panels with mineral and plastic core materials exposed to a 1:5 scaled ISO 13784-1 fire test.
Research output: Research - peer-review › Conference abstract for conference – Annual report year: 2017
A novel model for interpreting experimental results from sandwich composites exposed to fire conditions
Research output: Research - peer-review › Conference abstract for conference – Annual report year: 2016

Chemical herder effectiveness as oil spill response tool in ice-infested water
Research output: Research - peer-review › Conference abstract in proceedings – Annual report year: 2016

Effectiveness of a chemical herder as a tool for in-situ burning of oil spills in ice-infested water
Research output: Research - peer-review › Conference abstract in proceedings – Annual report year: 2016

Effects of oil and oil burn residues on seabird feathers
Research output: Research - peer-review › Journal article – Annual report year: 2016

Experimental Study of the Behavior of Steel Structures Protected by Different Intumescent Coatings and Exposed to Various Fire Scenarios
Research output: Research - peer-review › Article in proceedings – Annual report year: 2016

Fire safety in space – Investigating flame spread interaction over wires
Research output: Research - peer-review › Journal article – Annual report year: 2016

Fundamentals of Premixed Flames
Research output: Research - peer-review › Book chapter – Annual report year: 2016

Performance of chemical herders for in situ burning of crude oil in ice infested waters
Research output: Research - peer-review › Conference abstract for conference – Annual report year: 2016

The effectiveness of chemical herders as oil spill response tool in ice-infested water
Research output: Research - peer-review › Conference abstract for conference – Annual report year: 2016

Topology optimization for simplified structural fire safety
Research output: Research - peer-review › Journal article – Annual report year: 2016

Vaporization order of crude oil during in-situ burning on water
Research output: Research - peer-review › Poster – Annual report year: 2016

Chemical herding and in-situ burning of crude oil in a water basin in Sisimiut, Greenland
Research output: Research › Poster – Annual report year: 2015
Crude oil burning mechanisms: A conceptual model review
Research output: Research - peer-review › Article in proceedings – Annual report year: 2015

Determination of the moisture content of Nordic spruce wood through cone heater experiments and an integral model
Research output: Research - peer-review › Conference abstract in proceedings – Annual report year: 2015

Effects of convective motion in n-octane pool fires in an ice cavity
Research output: Research - peer-review › Journal article – Annual report year: 2015

Experimental assessment of the suitability of monitors and tv-screens for placement in evacuation routes
Research output: Research - peer-review › Conference abstract for conference – Annual report year: 2015

Field study of the indoor environment in a Danish prison
Research output: Research - peer-review › Journal article – Annual report year: 2015

Fire safety in space: Beyond flammability testing of small samples
Research output: Research - peer-review › Journal article – Annual report year: 2015

Importance of the slick thickness for effective in-situ burning of crude oil
Research output: Research - peer-review › Journal article – Annual report year: 2015

Modification of poly(styrene-block-butadiene-block-styrene) [SBS] with phosphorus containing fire retardants
Research output: Research - peer-review › Journal article – Annual report year: 2015

On the use of Bio-based Building Products in Denmark - Fire safety regulations, research and future challenges
Research output: Research › Conference abstract for conference – Annual report year: 2015

Residual Structural Capacity of Timber Components after Exposure to High Temperatures
Research output: Research - peer-review › Conference abstract for conference – Annual report year: 2015

Scaled experiments using the helium technique to study the vehicular blockage effect on longitudinal ventilation control in tunnels
Research output: Research - peer-review › Article in proceedings – Annual report year: 2015

Scaling of the burning efficiency for multicomponent fuel pool fires
Research output: Research - peer-review › Conference abstract for conference – Annual report year: 2015
Spacecraft Fire Experiment (Saffire) Development Status
Research output: Research - peer-review › Article in proceedings – Annual report year: 2014

The effect of emulsification on the in-situ burning of crude oil spills
Research output: Research - peer-review › Poster – Annual report year: 2014

The Feasibility of Multiscale Modeling of Tunnel Fires Using FDS 6
Research output: Research - peer-review › Poster – Annual report year: 2014

An experimental investigation on self-acceleration of cellular spherical flames
Research output: Research - peer-review › Journal article – Annual report year: 2013

Development of Large-Scale Spacecraft Fire Safety Experiments
Research output: Research - peer-review › Article in proceedings – Annual report year: 2013

Element size and other restrictions in finite-element modeling of reinforced concrete at elevated temperatures
Research output: Research - peer-review › Journal article – Annual report year: 2013

Evaluation of the Onset of Flashover in Room Fire Experiments
Research output: Research - peer-review › Journal article – Annual report year: 2012

Experimental Study on the Influence of Thermal Feedback on the Burning Behavior of Flexible Polyurethane
Research output: Research - peer-review › Article in proceedings – Annual report year: 2013

Experimental Study of the Effects of Flame Retardants Applied to Chipboard
Research output: Research - peer-review › Conference abstract for conference – Annual report year: 2012

Unmanned Vehicle Material Flammability Test
Research output: Research - peer-review › Poster – Annual report year: 2013

Experimental Study of the Effects of Flame Retardants Applied to Chipboard
Research output: Research - peer-review › Conference abstract for conference – Annual report year: 2012
Fire Models and Design Fires: An Experimental Investigation on the Influence of Thermal Feedback on Pre-Flashover Fires
Research output: Research › Ph.D. thesis – Annual report year: 2012

Large Scale Experiments on Spacecraft Fire Safety
Research output: Research - peer-review › Article in proceedings – Annual report year: 2012

Microgravity Flammability Experiments for Spacecraft Fire Safety
Research output: Research - peer-review › Article in proceedings – Annual report year: 2012

Spacecraft Fire Safety
Research output: Research › Poster – Annual report year: 2012

Application of Fracture Energy Based Material Models for Nonlinear FE-Analysis of Reinforced Concrete at Elevated Temperatures
Research output: Research - peer-review › Article in proceedings – Annual report year: 2011

Comparative Evaluation of Prescriptive, Performance-Based and Risk-Based Fire Safety in an Office Building
Research output: Research › Poster – Annual report year: 2011

Describing Function Analysis of Limit Cycles in a Multiple Flame Combustor
Research output: Research - peer-review › Journal article – Annual report year: 2011

Experimental Study on the Burning Behavior of Pool Fires in Rooms with Different Wall Linings
Research output: Research - peer-review › Journal article – Annual report year: 2011

Experimental study on the role of thermal feedback from different wall linings in a room fire
Poulsen, A. & Jomaas, G. 2011
Research output: Research › Poster – Annual report year: 2011

Material Modelling of the Post-Peak Response of Reinforced Concrete at Elevated Temperatures
Research output: Research › Poster – Annual report year: 2011

On Self-Acceleration of Cellular Spherical Flames
Research output: Research - peer-review › Article in proceedings – Annual report year: 2011
Spacecraft performance Analysis For Extreme events by integration and Combination Of Sensing, Modelling and Optimisation: SAFE-COSMOS
Research output: Research - peer-review › Article in proceedings – Annual report year: 2011

Describing function analysis of limit cycle in a multiple flame combustor
Research output: Research - peer-review › Article in proceedings – Annual report year: 2010

Observation and regime classification of pulsation patterns in expanding spherical flames
Research output: Research - peer-review › Journal article – Annual report year: 2010

Critical radius for sustained propagation of spark-ignited spherical flames
Research output: Research - peer-review › Journal article – Annual report year: 2009

Nonlinear analysis of combustion instabilities in a confined multipoint injection configuration
Jomaas, G. 2009
Research output: Research › Conference abstract for conference – Annual report year: 2009

High-pressure laminar flame speeds and kinetic modeling of carbon monoxide/hydrogen combustion
Research output: Research - peer-review › Conference article – Annual report year: 2007

On transition to cellularity in expanding spherical flames
Research output: Research - peer-review › Journal article – Annual report year: 2007

Spiral waves in expanding hydrogen-air flames: Experiment and theory
Research output: Research - peer-review › Conference article – Annual report year: 2007

Spiral Waves Over Propagating Hydrogen-Air Flames
Jomaas, G. 2007
Research output: Research › Poster – Annual report year: 2007

Cellular instabilities of expanding hydrogen/propane spherical flames at elevated pressures: Theory and experiment
Research output: Research - peer-review › Conference article – Annual report year: 2005

Experimental determination of counterflow ignition temperatures and laminar flame speeds of C2-C3 hydrocarbons at atmospheric and elevated pressures
Research output: Research - peer-review › Conference article – Annual report year: 2005

Effect of Smoke Source and Horn Configuration on Enhanced Deposition, Acoustic Agglomeration, and Chladni Figures In Smoke Detectors
Research output: Research - peer-review › Journal article – Annual report year: 2003

A STUDY OF THE MECHANISMS LEADING TO RE-IGNITION IN A "WORST CASE" FIRE SCENARIO
Jomaas, G. 2000
Research output: Research › Report – Annual report year: 2000
Flow Parameters Controlling a Diffusion Flame Established behind a Backward Facing Step
Research output: Research - peer-review › Article in proceedings – Annual report year: 2000

Projects:

Fire Performance of Assemblies Incorporating Insulation Products
Leisted, R. R., Jomaas, G., Torero, J. L., Sørensen, L. S., Hadden, R. M., Hees, P. V., Hadden, R. M. & Hees, P. V.
Samfinansierede - Virksomhed
01/10/2014 → 06/09/2018
Project: PhD

In-Situ Burning of Crude Oils under arctic Conditions
Institut stipendie (DTU)
01/01/2014 → 20/04/2017
Project: PhD

Fire Models and design Fires
Poulsen, A., Hertz, K. D., Jomaas, G., Munk, K., Karlsson, B. & Bontempi, F.
Institut stipendie (DTU) Samf.
01/03/2008 → 24/08/2012
Project: PhD

FP1404: Cost actionFP1404 - Fire safe use of bio-based building products
Markert, F. & Jomaas, G.
05/12/2014 → 04/12/2018
Project: Research

Intumescent Paint: Experimental and Numerical Study of the Thermal Resistance of Intumescent Coatings
Giuliani, L. & Jomaas, G.
01/01/2014 → 30/04/2015
Project: Research

Activities:

Fire Safety in Space—Beyond Flammability Testing of Small Samples
Jomaas, G. (Invited speaker)
28 Jul 2014
Activity: Talks and presentations › Conference presentations

Design Fires and Flashover in Modern Building Design
Jomaas, G. (Lecturer)
12 Apr 2012
Activity: Talks and presentations › Conference presentations

Automated Transfer Vehicle Material Flammability Experiment
Jomaas, G. (Speaker)
9 Jan 2012 → 12 Jan 2012
Activity: Talks and presentations › Conference presentations

Propagation and Stability of Spherical Flames – Experimental Observations
Jomaas, G. (Speaker)
9 Dec 2009
Activity: Talks and presentations › Conference presentations
12th CECOST Seminar 2009
Jomaas, G. (Participant)
8 Dec 2009
Activity: Attending an event › Participating in or organising a conference

1st Joint Meeting of the Scandinavian-Nordic and French Sections of the Combustion Institute
Jomaas, G. (Participant)
9 Nov 2009 → 10 Nov 2009
Activity: Attending an event › Participating in or organising a conference

The 2009 Society of Fire Protection Engineers (SFPE) Annual Meeting, Professional Development Conference and Exposition
Jomaas, G. (Participant)
Activity: Attending an event › Participating in or organising a conference

Experimental Observations of Propagation and Stability of Spherical Flames
Jomaas, G. (Speaker)
26 Aug 2009
Activity: Talks and presentations › Conference presentations

Press clippings:

Fire Experiments with Sandwich Panels
Grunde Jomaas
01/01/2014
1 media contribution
Press/Media: Press / Media

Brandsikkerhed ved brug af flammehæmmere
Grunde Jomaas
01/01/2012
1 media contribution
Press/Media: Press / Media