Research outputs:

**Experimental observation of fatigue degradation in a composite wind turbine blade**
Research output: Research - peer-review › Journal article – Annual report year: 2019

**Modeling multiple failures of composite box beams used in wind turbine blades**
Research output: Research - peer-review › Journal article – Annual report year: 2019

**Trailing edge sub-component testing for wind turbine blades - Part A: Comparison of concepts**
Research output: Research - peer-review › Journal article – Annual report year: 2019

**Understanding progressive failure mechanisms of a wind turbine blade trailing edge section through subcomponent tests and nonlinear FE analysis**
Research output: Research - peer-review › Journal article – Annual report year: 2019

**Wind Turbine Surface Damage Detection by Deep Learning Aided Drone Inspection Analysis**
2019 In : Energies. 12, 4, 15 p., 676
Research output: Research - peer-review › Journal article – Annual report year: 2019

**Experimental investigation on ultimate strength and failure response of composite box beams used in wind turbine blades**
Research output: Research - peer-review › Journal article – Annual report year: 2018

**BLATIGUE Project Report-Standard Static Tests of a 14.3 m Olsen Wing Blade**
Chen, X., Trevisi, F., Berring, P., Yeniceli, S. C., Semenov, S., Madsen, S. H. & Branner, K. 2018
Research output: Research - peer-review › Report – Annual report year: 2018

**Buckling and progressive failure of trailing edge subcomponent of wind turbine blade**
Research output: Research - peer-review › Conference abstract in proceedings – Annual report year: 2018

**DTU - Drone inspection images of wind turbine**
Shihavuddin, A. S. M. & Chen, X. 2018
Research output: Research › Dataset – Annual report year: 2019

**Fracture of wind turbine blades in operation-Part I: A comprehensive forensic investigation**
Research output: Research - peer-review › Journal article – Annual report year: 2018

'Testing report on blade subcomponents' Work Package 7.1: Efficient blade structure Deliverable number 7.1.2 Part A
'Tests on blade sub parts'
Experimental Study on CFRP-bonded Steel Plates with Thickness Reduction using Underwater Epoxy
Research output: Research - peer-review › Journal article – Annual report year: 2012

Minimum thickness of welding patches to recover structural performance of steel pipe piles under compression
Research output: Research - peer-review › Journal article – Annual report year: 2012

Tensile and Compressive Test on Thickness-Reduced Steel Plate Repaired by CFRP Strand Sheet and Underwater Epoxy with Bond Defects
Research output: Research - peer-review › Paper – Annual report year: 2012

Compression behaviors of thickness-reduced steel pipes repaired with underwater welds
Research output: Research - peer-review › Journal article – Annual report year: 2011

Evaluation of repair design on corrosion-damaged steel pipe piles using welded patch plates under compression
Chen, X., Kitane, Y. & Itoh, Y. 2011 In: Journal of Structural Engineering. 57A
Research output: Research - peer-review › Journal article – Annual report year: 2011

Mechanical Properties of Fillet Weld Joints by Underwater Wet Welding in Repairing Corrosion-Damaged Offshore Steel Structures
Chen, X. & Kitane, Y. 2010 In: Journal of Structural Engineering. 56A
Research output: Research - peer-review › Journal article – Annual report year: 2010

Experimental study on strength and ductility of underwater fillet welds in repairing offshore steel structures
Research output: Research - peer-review › Paper – Annual report year: 2009

Projects:

Advanced methods for blade MOnitoring UNder full-scale Testing (AMOUNT)
Belloni, F., Branner, K., Kann, J. & Chen, X.
01/09/2018 → 31/08/2021
Project: PhD

Verification of Structural Properties for Bend-Twist Coupled Wind Turbine Blades
Tiedemann, M. M., Branner, K., Bode, J. & Chen, X.
Industrial PhD
01/03/2018 → 28/02/2021
Project: PhD

CASMaT: Villum Center for Advanced Structural and Material Testing
07/11/2017 → …
Project: Research

Activities:

Structural degradation of a large composite wind turbine blade in a full-scale fatigue test
Chen, X. (Speaker)