Numerical simulation of scour and backfilling processes around a circular pile in waves
Research output: Contribution to journal › Journal article – Annual report year: 2017 › Research › peer-review

Tsunami Induced Scour Around Monopile Foundations
Research output: Contribution to journal › Journal article – Annual report year: 2017 › Research › peer-review

Erratum for "Simulation of Wave-Plus-Current Scour beneath Submarine Pipelines" by Bjarke Eltard Larsen, David R. Fuhrman, and B. Mutlu Sumer
Research output: Contribution to journal › Comment/debate – Annual report year: 2016 › Research › peer-review

Longitudinal dispersion of heavy particles in an oscillating tunnel and application to wave boundary layers
Research output: Contribution to journal › Journal article – Annual report year: 2016 › Research › peer-review

Simulation of Wave-Plus-Current Induced Scour Beneath Submarine Pipelines
Research output: Contribution to conference › Conference abstract for conference – Annual report year: 2016 › Research › peer-review

Simulation of Wave-Plus-Current Scour beneath Submarine Pipelines
Research output: Contribution to journal › Journal article – Annual report year: 2016 › Research › peer-review

Tsunami Induced Scour Around Monopile Foundations
Research output: Contribution to conference › Conference abstract for conference – Annual report year: 2016 › Research › peer-review

D5.10 - Interaction of the tsunami with the seabed. Implications for wind farms, aquaculture, coastal ecosystems and marine protected areas.
Research output: Book/Report › Report – Annual report year: 2015 › Research › peer-review

D5.3 Interaction between currents, wave, structure and subsoil
Research output: Book/Report › Report – Annual report year: 2015 › Research › peer-review

D5.4 Guidelines for interaction between seabed and support structure
Research output: Book/Report › Report – Annual report year: 2015 › Research › peer-review

Discussion of "Sediment entrainment probability and threshold of sediment suspension: Exponential-based approach" by Sujit K. Bose and Subhasish Dey
Research output: Contribution to journal › Comment/debate – Annual report year: 2014 › Research
Edge scour at scour protections around piles in the marine environment - Laboratory and field investigation
Research output: Contribution to journal › Journal article – Annual report year: 2015 › Research › peer-review

Flow and edge scour in current adjacent to stone covers
Research output: Contribution to journal › Journal article – Annual report year: 2015 › Research › peer-review

Flow and Turbulence at Rubble-Mound Breakwater Armor Layers under Solitary Wave
Research output: Contribution to journal › Journal article – Annual report year: 2015 › Research › peer-review

Numerical investigation of flow and scour around a vertical circular cylinder
Research output: Contribution to journal › Journal article – Annual report year: 2015 › Research › peer-review

Scour at Breakwaters Under Combined Waves and Current
Research output: Chapter in Book/Report/Conference proceeding › Article in proceedings – Annual report year: 2015 › Research › peer-review

Sinking of armour layer around a vertical cylinder exposed to waves and current
Research output: Contribution to journal › Journal article – Annual report year: 2015 › Research › peer-review

A review of recent advances in numerical modelling of local scour problems
Research output: Chapter in Book/Report/Conference proceeding › Article in proceedings – Annual report year: 2014 › Research › peer-review

Edge scour at scour protections around offshore wind turbine foundations
Research output: Chapter in Book/Report/Conference proceeding › Article in proceedings – Annual report year: 2014 › Research › peer-review

Flow and sediment transport induced by plunging waves
Research output: Chapter in Book/Report/Conference proceeding › Conference abstract in proceedings – Annual report year: 2014 › Research › peer-review

Flow-structure-seabed interactions in coastal and marine environments
Research output: Contribution to journal › Journal article – Annual report year: 2014 › Research › peer-review

Influence of clay content on residual liquefaction in waves
Research output: Chapter in Book/Report/Conference proceeding › Conference abstract in proceedings – Annual report year: 2014 › Research › peer-review
Advances in Seabed Liquefaction and its Implications for Marine Structures
Research output: Contribution to journal › Journal article – Annual report year: 2014 › Research › peer-review

Backfilling of a Scour Hole around a Pile in Waves and Current
Research output: Contribution to journal › Journal article – Annual report year: 2013 › Research › peer-review

Flow and bed shear stresses in scour protections around a pile in a current
Research output: Contribution to journal › Journal article – Annual report year: 2013 › Research › peer-review

Laboratory observations of flow and sediment transport induced by plunging regular waves
Research output: Contribution to journal › Journal article – Annual report year: 2013 › Research › peer-review

Measuring Sandy Bottom Dynamics by Exploiting Depth from Stereo Video Sequences
Research output: Chapter in Book/Report/Conference proceeding › Article in proceedings – Annual report year: 2014 › Research › peer-review

Numerical and experimental investigation of flow and scour around a half-buried sphere
Dixen, M., Sumer, B. M. & Fredsøe, J., 2013, In : Coastal Engineering. 73, p. 84-105
Research output: Contribution to journal › Journal article – Annual report year: 2013 › Research › peer-review

Residual liquefaction of seabed under standing waves
Kirca, V. S. O., Sumer, B. M. & Fredsøe, J., 2013, In : Journal of Waterway, Port, Coastal, and Ocean Engineering. 139, 6, p. 489-501
Research output: Contribution to journal › Journal article – Annual report year: 2013 › Research › peer-review

Sinking failure of scour protection at wind turbine foundation
Research output: Contribution to journal › Journal article – Annual report year: 2013 › Research › peer-review

A note on turbulent spots over a rough bed in wave boundary layers
Research output: Contribution to journal › Journal article – Annual report year: 2012 › Research › peer-review

Backfilling of scour holes around piles
Research output: Chapter in Book/Report/Conference proceeding › Conference abstract in proceedings – Annual report year: 2012 › Research › peer-review

Edge scour in current adjacent to stone covers
Research output: Contribution to conference › Paper – Annual report year: 2012 › Research › peer-review
Scour at Vertical Piles in Sand-Clay Mixtures under Waves
Research output: Contribution to journal › Journal article – Annual report year: 2011 › Research › peer-review

Sinking of armour layer around a cylinder exposed to a current
Research output: Contribution to journal › Journal article – Annual report year: 2011 › Research › peer-review

Stability of submerged rock berms exposed to motion of liquefied soil in waves
Research output: Contribution to journal › Journal article – Annual report year: 2011 › Research › peer-review

Coherent structures in wave boundary layers. Part 1. Oscillatory motion
Research output: Contribution to journal › Journal article – Annual report year: 2010 › Research › peer-review

Coherent structures in wave boundary layers. Part 2. Solitary motion
Research output: Contribution to journal › Journal article – Annual report year: 2010 › Research › peer-review

Cover stones on liquefiable soil bed under waves
Research output: Contribution to journal › Journal article – Annual report year: 2010 › Research › peer-review

Effect of turbulence on local scour
Research output: Chapter in Book/Report/Conference proceeding › Article in proceedings – Annual report year: 2010 › Research › peer-review

Flow and sediment transport under a plunging solitary wave
Research output: Chapter in Book/Report/Conference proceeding › Article in proceedings – Annual report year: 2010 › Research › peer-review

Flow velocities and bed sand stresses in a stone cover under an oscillatory flow
Research output: Chapter in Book/Report/Conference proceeding › Article in proceedings – Annual report year: 2010 › Research › peer-review

Scour protection around offshore wind turbines. Monopiles
Research output: Chapter in Book/Report/Conference proceeding › Article in proceedings – Annual report year: 2010 › Research › peer-review

Simulation of turbulent wave boundary layers on spatially varying bottom roughness
Research output: Chapter in Book/Report/Conference proceeding › Article in proceedings – Annual report year: 2010 › Research › peer-review
Wave boundary layer over a stone-covered bed
Research output: Contribution to journal › Journal article – Annual report year: 2008 › Research › peer-review

Behaviour of riprap under liquefied backfill
Research output: Contribution to conference › Poster – Annual report year: 2007 › Research › peer-review

Earthquake-induced liquefaction around marine structures
Research output: Contribution to journal › Journal article – Annual report year: 2007 › Research › peer-review

Flow around buried spherical structures
Research output: Contribution to conference › Poster – Annual report year: 2007 › Research › peer-review

Lecture Notes on Turbulence: Revised/Updated 2007
Sumer, B. M., 2007
Research output: Book/Report › Compendium/lecture notes – Annual report year: 2007 › Education

Liquefaction around marine structures
Research output: Contribution to conference › Conference abstract for conference – Annual report year: 2007 › Research › peer-review

Liquefaction Around Marine Structures: Lecture Notes
Sumer, B. M., 2007
Research output: Book/Report › Compendium/lecture notes – Annual report year: 2007 › Education

Mathematical modelling of scour: A review
Research output: Contribution to journal › Journal article – Annual report year: 2007 › Research › peer-review

Special issue on liquefaction around marine structures: Miscellaneous
Research output: Contribution to journal › Journal article – Annual report year: 2007 › Research

Wave scour around a pile in sand, medium dense, and dense silt
Research output: Contribution to journal › Journal article – Annual report year: 2007 › Research › peer-review

Coherent structures in oscillatory boundary layers
Research output: Contribution to conference › Conference abstract for conference – Annual report year: 2006 › Research › peer-review

Control of scour around circular piles under waves and current
Research output: Chapter in Book/Report/Conference proceeding › Article in proceedings – Annual report year: 2006 › Research › peer-review
Control of scour around circular piles under waves and current
Research output: Contribution to conference › Conference abstract for conference – Annual report year: 2006 › Research › peer-review

Control of scour at vertical circular piles under waves and current
Research output: Contribution to journal › Journal article – Annual report year: 2006 › Research › peer-review

Cover stones/riprap over liquefiable soil
Research output: Chapter in Book/Report/Conference proceeding › Article in proceedings – Annual report year: 2006 › Research › peer-review

Cover stones/riprap over liquefiable soil
Research output: Contribution to conference › Conference abstract for conference – Annual report year: 2006 › Research › peer-review

Critical floatation density of pipelines in soils liquefied by waves and density of liquefied soils
Research output: Contribution to journal › Journal article – Annual report year: 2006 › Research › peer-review

Guidelines for pipeline on-bottom stability on liquefied noncohesive seabeds
Research output: Contribution to journal › Journal article – Annual report year: 2006 › Research › peer-review

Large Eddy Simulation of the ventilated wave boundary layer
Research output: Contribution to journal › Journal article – Annual report year: 2006 › Research › peer-review

Liquefaction around pipelines under waves
Research output: Contribution to journal › Journal article – Annual report year: 2006 › Research › peer-review

Special issue on liquefaction around marine structures
Research output: Contribution to journal › Editorial – Annual report year: 2006 › Research › peer-review

Suction removal of sediment from between armour blocks in waves
Research output: Contribution to conference › Conference abstract for conference – Annual report year: 2006 › Research › peer-review

The sequence of sediment behaviour during wave-induced liquefaction
Research output: Contribution to journal › Journal article – Annual report year: 2006 › Research › peer-review
Global and local scour at pile groups
Research output: Chapter in Book/Report/Conference proceeding › Article in proceedings – Annual report year: 2005 › Research › peer-review

Global and local scour at pile groups
Research output: Contribution to journal › Conference article – Annual report year: 2005 › Research › peer-review

Liquefaction around marine structures, LIMAS, an EU research program
Research output: Chapter in Book/Report/Conference proceeding › Article in proceedings – Annual report year: 2004 › Research › peer-review

Local scour at roundhead and along the trunk of low crested structures
Research output: Contribution to journal › Journal article – Annual report year: 2005 › Research › peer-review

Numerical and experimental investigation of flow and scour around a circular pile
Research output: Contribution to journal › Journal article – Annual report year: 2005 › Research › peer-review

Pipeline floatation in liquefied soils under waves
Research output: Chapter in Book/Report/Conference proceeding › Article in proceedings – Annual report year: 2004 › Research › peer-review

Scour around spherical bodies and self-burial
Research output: Contribution to journal › Journal article – Annual report year: 2005 › Research › peer-review

Sequence of soil liquefaction under waves
Research output: Chapter in Book/Report/Conference proceeding › Article in proceedings – Annual report year: 2005 › Research › peer-review

Subsea Structures, Research on hydrodynamic processes at/around, at Coastal, Maritime & Structural Engineering Section, Technical University of Denmark
Research output: Contribution to journal › Journal article – Annual report year: 2005 › Communication

Influence of turbulence on bedload sediment transport
Research output: Chapter in Book/Report/Conference proceeding › Article in proceedings – Annual report year: 2004 › Research › peer-review
Physical and mathematical modelling of scour
Research output: Chapter in Book/Report/Conference proceeding › Article in proceedings – Annual report year: 2004 › Research › peer-review

Scour around spherical bodies and self-burial
Research output: Chapter in Book/Report/Conference proceeding › Article in proceedings – Annual report year: 2004 › Research › peer-review

Seismic response of a rubble mound breakwater in Turkey
Research output: Contribution to journal › Journal article – Annual report year: 2005 › Research › peer-review

The cycle of soil behaviour during wave liquefaction
Research output: Chapter in Book/Report/Conference proceeding › Article in proceedings – Annual report year: 2004 › Research › peer-review

Wave boundary layers over a bed with large roughness
Research output: Chapter in Book/Report/Conference proceeding › Article in proceedings – Annual report year: 2004 › Research › peer-review

Wave scour around a vertical circular pile in silt
Research output: Chapter in Book/Report/Conference proceeding › Article in proceedings – Annual report year: 2004 › Research › peer-review

Effect of externally generated turbulence on wave boundary layer
Research output: Contribution to journal › Journal article – Annual report year: 2003 › Research › peer-review

3-D numerical modelling of flow around a groin
Research output: Chapter in Book/Report/Conference proceeding › Article in proceedings – Annual report year: 2003 › Research › peer-review

Experimental investigation of wave boundary layer
Research output: Chapter in Book/Report/Conference proceeding › Article in proceedings – Annual report year: 2003 › Research

Influence of turbulence on bed load sediment transport
Research output: Contribution to journal › Journal article – Annual report year: 2003 › Research › peer-review
Scour around coastal structures: A summary of recent research
Research output: Contribution to journal › Review – Annual report year: 2001 › Research › peer-review

Scour around pile in combined waves and current
Research output: Contribution to journal › Journal article – Annual report year: 2001 › Research › peer-review

Scour at a riprap revetment in currents
Research output: Chapter in Book/Report/Conference proceeding › Article in proceedings – Annual report year: 2001 › Research › peer-review

Solutions of pore pressure build up due to progressive waves
Research output: Contribution to journal › Journal article – Annual report year: 2001 › Research › peer-review

Suction removal of sediment from between armor blocks
Research output: Contribution to journal › Journal article – Annual report year: 2001 › Research › peer-review

Wave scour around a large vertical circular cylinder
Research output: Contribution to journal › Journal article – Annual report year: 2001 › Research › peer-review

Experimental study of 2D scour and its protection at a rubble-mound breakwater
Research output: Contribution to journal › Journal article – Annual report year: 2000 › Research › peer-review

3D mathematical modelling of scour around a circular pile in current
Research output: Chapter in Book/Report/Conference proceeding › Article in proceedings – Annual report year: 1999 › Research › peer-review

A random-walk model for pore pressure accumulation in marine soils
Research output: Chapter in Book/Report/Conference proceeding › Article in proceedings – Annual report year: 1999 › Research › peer-review

Pore pressure buildup around a buried submarine pipeline under progressive surface waves
Magda, W., Sumer, B. M. & Fredsøe, J., 1999
Research output: Book/Report › Report – Annual report year: 1999 › Research › peer-review

Scour and its protection at breakwaters
Research output: Chapter in Book/Report/Conference proceeding › Book chapter – Annual report year: 1999 › Research › peer-review

Sinking/floatation of pipelines and other objects in liquefied soil under waves
Research output: Contribution to journal › Journal article – Annual report year: 1999 › Research › peer-review
Solution of pore pressure buildup due to progressive waves
Cheng, L., Sumer, B. M. & Fredsøe, J., 1999
Research output: Book/Report › Report – Annual report year: 1999 › Research › peer-review

The circulation over a longshore bar with rip channels
Research output: Chapter in Book/Report/Conference proceeding › Article in proceedings – Annual report year: 1999 › Research › peer-review

Wave plus current over a ripple-covered bed
Research output: Contribution to journal › Journal article – Annual report year: 1999 › Research › peer-review

Wave scour around structures
Research output: Chapter in Book/Report/Conference proceeding › Article in proceedings – Annual report year: 1999 › Research

A study on bottom shear stress under irregular waves
Research output: Contribution to journal › Journal article – Annual report year: 1998 › Research › peer-review

Effect of externally generated turbulence on wave boundary layer
Research output: Book/Report › Report – Annual report year: 1998 › Research › peer-review

Scour around coastal structures
Research output: Contribution to journal › Journal article – Annual report year: 1998 › Research

Theoretical and experimental investigation on laminar boundary layers under cnoidal wave motion
Research output: Contribution to journal › Journal article – Annual report year: 1998 › Research › peer-review

Turbulent combined oscillatory flow and current in a pipe
Research output: Contribution to journal › Journal article – Annual report year: 1998 › Research › peer-review

Wave scour around group of vertical piles
Research output: Contribution to journal › Journal article – Annual report year: 1998 › Research › peer-review

Hydrodynamics Around Cylindrical Structures
Research output: Book/Report › Book – Annual report year: 1997 › Research › peer-review

Scour at the head of a vertical-wall breakwater
Research output: Contribution to journal › Journal article – Annual report year: 1997 › Research › peer-review

Scour at the round head of a rubble-mound breakwater.
Fredsøe, J. & Sumer, B. M., 1997, In : Coastal Engineering. 29, 3-4, p. 231-262
The horseshoe vortex and vortex shedding around a vertical wall-mounted cylinder exposed to waves

Theoretical and experimental investigation on laminar boundary layer under cnoidal wave motion

Vortex regimes around a freely vibrating cylinder in oscillatory flow

Scour around pipelines in combined waves and current

Velocity and concentration profiles in sheet-flow layer of movable bed

Vortex regimes around a freely vibrating cylinder in oscillatory flow