Research outputs:

**Learning-by-doing: experience from 20 years of teaching LCA to future engineers**
Research output: Research - peer-review • Journal article – Annual report year: 2019

**Spatially explicit fate factors of waterborne nitrogen emissions at the global scale**
Research output: Research - peer-review • Journal article – Annual report year: 2018

**Characterization of waterborne nitrogen emissions for marine eutrophication modelling in life cycle impact assessment at the damage level and global scale**
Research output: Research - peer-review • Journal article – Annual report year: 2017

**Modelling the influence of changing climate in present and future marine eutrophication impacts from spring barley production**
Cosme, N. M. D. & Niero, M. 2017 In : Journal of Cleaner Production. 140, p. 537-546
Research output: Research - peer-review • Journal article – Annual report year: 2016

**Contribution of waterborne nitrogen emissions to hypoxia-driven marine eutrophication: modelling of damage to ecosystems in life cycle impact assessment (LCIA)**

**Effect factors for marine eutrophication in LCIA based on species sensitivity to hypoxia**
Research output: Research - peer-review • Journal article – Annual report year: 2016

**How to consistently make your product, technology or system more environmentally-sustainable?**
Research output: Research - peer-review • Conference abstract for conference – Annual report year: 2016

**Spatial differentiation in environmental impact assessment: how to properly estimate impacts from agricultural use of fertilizers**
Cosme, N. M. D. 2016 1 p.
Research output: Research - peer-review • Conference abstract for conference – Annual report year: 2016

**Spatial differentiation of marine eutrophication damage indicators based on species density**
Cosme, N. M. D., Jones, M. C., Cheung, W. W. L. & Larsen, H. F. 2016 In : Ecological Indicators. 73, p. 676-685
Research output: Research - peer-review • Journal article – Annual report year: 2016

**A marine eutrophication impacts assessment method in LCIA coupling coastal ecosystems exposure to nitrogen and species sensitivity to hypoxia**
Cosme, N. M. D., Koski, M. & Hauschild, M. Z. 2015
Research output: Research • Conference abstract for conference – Annual report year: 2015

**A teaching and communication tool based on DPSIR and LCIA indicator for marine eutrophication**
Cosme, N. M. D. & Olsen, S. I. 2015
Research output: Research - peer-review • Conference abstract for conference – Annual report year: 2015
Coupling ecosystems exposure to nitrogen and species sensitivity to hypoxia: modelling marine eutrophication in LCIA
Research output: Research › Conference abstract for conference – Annual report year: 2015

Exposure factors for marine eutrophication impacts assessment based on a mechanistic biological model
Research output: Research - peer-review › Journal article – Annual report year: 2015

From nitrogen enrichment to oxygen depletion: a mechanistic model of coastal marine ecosystems response
Research output: Research › Conference abstract for conference – Annual report year: 2015

From species sensitivity to hypoxia to effect factors modelling in life cycle impact assessment (LCIA)
Research output: Research - peer-review › Conference abstract for conference – Annual report year: 2016

Marine eutrophication impacts from present and future production of spring barley
Research output: Research - peer-review › Article in proceedings – Annual report year: 2015

Large Marine Ecosystems and coastal water archetypes implemented in LCIA methods for marine eutrophication and metals ecotoxicity
Research output: Research - peer-review › Conference abstract for conference – Annual report year: 2014

Estimation of Effect Factors for application to marine eutrophication in LCIA
Research output: Research - peer-review › Conference abstract in proceedings – Annual report year: 2014

Estimation of Effect Factors for application to marine eutrophication in LCIA
Cosme, N. M. D. & Hauschild, M. Z. 2014
Research output: Research › Sound/Visual production (digital) – Annual report year: 2014
Parameterisation of LCI/LCIA models of agricultural systems emissions under future pressures
Research output: Research - peer-review › Poster – Annual report year: 2014

Pursuing an ecological component for the Effect Factor in LCIA methods
Research output: Research - peer-review › Poster – Annual report year: 2014

Spatially-explicit LCIA model for marine eutrophication as a tool for sustainability assessment
Research output: Research - peer-review › Conference abstract in proceedings – Annual report year: 2014

The DPSIR approach applied to marine eutrophication in LCIA as a learning tool
Research output: Research - peer-review › Poster – Annual report year: 2014

Spatially-explicit LCIA endpoint model for marine eutrophication and application to future climatic-driven pressures
Research output: Research - peer-review › Conference abstract in proceedings – Annual report year: 2013

Endpoint characterisation modelling for marine eutrophication in LCIA
Research output: Research - peer-review › Conference abstract in proceedings – Annual report year: 2013

Final evaluation of the newly developed characterisation and normalisation factors in an LCA case study - Paper production and printing
Research output: Research › Report – Annual report year: 2013

Recommended assessment framework, method and characterisation and normalisation factors for ecosystem impacts of eutrophying emissions: phase 3 (report, model and factors)
Research output: Research - peer-review › Report – Annual report year: 2013

Spatially-explicit LCIA endpoint model for marine eutrophication and application to future climatic-driven pressures
Research output: Research - peer-review › Conference abstract in proceedings – Annual report year: 2013

Projects:

Impacts of waterbone nitrogen emissions to hypoxia-driven marine eutrophication: modelling of damage to ecosystems in life cycle impact assessment (LCIA)
Institut stipendie (DTU)
15/12/2012 → 01/09/2016
Project: PhD
LC-IMPACT: Development and application of environmental Life Cycle Impact assessment Methods for Improved sustainability Characterisation of Technologies
01/12/2009 → 31/05/2013
Project: Research

Activities:

Learning by doing – Experience from 20 years of teaching LCA to future engineers
7 Sep 2017
Activity: Talks and presentations › Talks and presentations in private or public companies and organisations

Technical Advisory Group (TAG) on Livestock Environmental Assessment and Performance (LEAP) Partnership (External organisation)
Cosme, N. M. D. (Participant)
2016
Activity: Membership › Membership of research networks or expert groups

ICES Annual Science Conference 2015
Cosme, N. M. D. (Participant)
21 Sep 2015 → 25 Sep 2015
Activity: Attending an event › Participating in or organising a conference

ASLO Aquatic Sciences Meeting 2015
Cosme, N. M. D. (Participant)
22 Feb 2015 → 27 Feb 2015
Activity: Attending an event › Participating in or organising a conference

Department of Management Engineering (Organisational unit)
Cosme, N. M. D. (Participant)
1 Jan 2015 → 31 Dec 2015
Activity: Membership › Membership of committees, commissions, boards, councils, associations, organisations, or similar

DTU Sustain Conference 2014
Cosme, N. M. D. (Participant)
17 Dec 2014
Activity: Attending an event › Participating in or organising a conference

IARU Sustainability Science Congress
Cosme, N. M. D. (Participant)
Activity: Attending an event › Participating in or organising a conference

SETAC Europe 24th Annual Meeting
Cosme, N. M. D. (Participant)
11 May 2014 → 15 May 2014
Activity: Attending an event › Participating in or organising workshops, courses, seminars etc.

Pesticides emissions modeling in LCA
Cosme, N. M. D. (Participant)
10 May 2014
Activity: Attending an event › Participating in or organising workshops, courses, seminars etc.
Department of Management Engineering (Organisational unit)
Cosme, N. M. D. (Participant)
1 Jan 2014 → 31 Dec 2014
Activity: Membership › Membership of committees, commissions, boards, councils, associations, organisations, or similar

All at Sea 2013: An integrated approach to research in the coastal zone
Cosme, N. M. D. (Participant)
4 Jul 2013 → 5 Jul 2013
Activity: Attending an event › Participating in or organising workshops, courses, seminars etc.

SETAC Europe 23rd Annual Meeting
Cosme, N. M. D. (Participant)
12 May 2013 → 16 May 2013
Activity: Attending an event › Participating in or organising workshops, courses, seminars etc.

Towards consensus about the delimitation between life cycle inventory and impact assessment in LCAs with pesticide and fertilizer use
Cosme, N. M. D. (Participant)
11 May 2013
Activity: Attending an event › Participating in or organising workshops, courses, seminars etc.