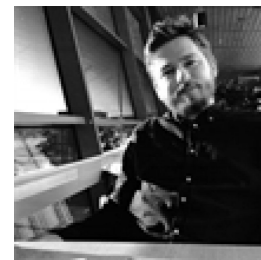


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Publications

Unveiling the Energy Alignment across Ultrathin 4P-NPD Hole Extraction Interlayers in Organic Solar Cells

Ahmad, M., Amelot, D., Cruguel, H., Patil, B. R., Ahmadpour, M., Giangrisostomi, E., Ovsyannikov, R., Silly, M. G., Dudy, L., Madsen, M. & Witkowski, N., 25. Apr 2022, In: ACS Applied Energy Materials. 5, 4, p. 5018–5025

2D materials for organic and perovskite photovoltaics

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Efficiency-enhanced scalable organic photovoltaics using roll-to-roll nanoimprint lithography

Lamminaho, J., Rubahn, H. G., Madsen, M., Yakoob, M. A., Patil, B. R., Destouesse, E., Petersons, K., Prajapati, A., Shalev, G. & Stensborg, J., 21. Jan 2022, In: ChemSusChem. 15, 2, 10 p., e202101611.

Influence of solvent additive on the performance and aging behavior of non-fullerene organic solar cells

Arredondo, B., Carlos Pérez-Martínez, J., Muñoz-Díaz, L., López-González, M. D. C., Martín-Martín, D., del Pozo, G., Hernández-Balaguera, E., Romero, B., Lamminaho, J., Turkovic, V. & Madsen, M., 15. Jan 2022, In: Solar Energy. 232, p. 120-127

Near-Infrared to Visible Photon Upconversion by Palladium(II) Octabutoxyphthalocyanine and Rubrene in the Solid State

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Bias-Dependent Dynamics of Degradation and Recovery in Perovskite Solar Cells

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Degradation Behavior of Scalable Nonfullerene Organic Solar Cells Assessed by Outdoor and Indoor ISOS Stability Protocols

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Photo-induced and electrical degradation of organic field-effect transistors

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Dibenzo-tetraphenyl diindeno perylene as hole transport layer for high-bandgap perovskite solar cells

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Electrical properties of *in-situ* grown and transferred organic nanofibers

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Scanning electron microscopy of semiconducting nanowires at low voltages

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Projects

Bitten & Mads Clausen Foundation - Development of Smart Materials: From research to production

Madsen, M.
01/05/2019 → 31/12/2022

DFF FTP - Large scale integration of nanowire based solar cells

Madsen, M.
01/02/2010 → 31/01/2011

DFF FTP - Reactively sputtered metal oxides for high performance photovoltaics (React-PV)

Madsen, M.
01/10/2018 → 31/03/2023

DFF FTP - Tuning the Photostability of Organic Photovoltaics Components

Madsen, M.
01/07/2020 → 30/06/2024

Fabrikant Mads Clausen Foundation - High Efficiency Solar Cells for PV Units

Madsen, M.
01/01/2013 → 31/12/2013

FP7 Marie Curie ITN - Thin-film Hybrid Interfaces: a training initiative for the design of next-generation energy devices (THINFACE)

Madsen, M.
01/09/2013 → 31/08/2017

InnovationsFonden - High-efficiency solar cells by spectral transformation using nano-optical enhancement (SunTune)

Madsen, M.
01/03/2015 → 31/12/2019

Interreg5A - RollFlex – An innovation project center for Roll-to-Roll processed flexible devices

Madsen, M.
01/04/2016 → 31/12/2020

Optimisation of small-scale OPV device fabrication

Greenbank, W. & Madsen, M.
01/06/2018 → 31/05/2019

Porphyrin materials for OPV applications

Greenbank, W., Madsen, M. & Bähring, S.
19/02/2019 → 31/05/2019

SDU2020 - Production of next-generation energy devices

Madsen, M.
01/01/2014 → 30/06/2017

Simulation and X-ray analysis of high efficiency OPV active layers

Greenbank, W., Madsen, M., Andreasen, J. W., Prete, M. & Engmann, V.
28/01/2019 → ...

UFM - Structures of Materials in Real Time

Madsen, M.
15/12/2019 → 14/12/2022

Villum Fonden - Mechanical and photochemical stabilization of flexible organic solar cells (Compliant-PV)

Engmann, V. & Madsen, M.
01/01/2017 → 31/05/2020

Teaching and supervision

Advanced Topics in Renewable Energy Technologies

Morten Madsen
01/10/2012 → 01/02/2013

ENPHYS (Guest Lecturer)

Morten Madsen
01/09/2018 → 30/11/2018

Experts in Teams

Morten Madsen
01/09/2018 → 21/01/2019

Master and Bachelor projects

Morten Madsen
01/02/2011 → ...

Mechanics 1: Statics (MECH1)

Morten Madsen
01/09/2015 → ...

Mechatronics Design and Build 2

Morten Madsen
01/09/2011 → 31/01/2012

Micro- and Nanofabrication 2 (Guest Lecturer)

Morten Madsen
01/09/2011 → 30/11/2017

Nano Project

Morten Madsen
01/02/2011 → 31/01/2015

Nanofabrication Technology (NFAB)

Yogendra Kumar Mishra & Morten Madsen
04/02/2022 → 27/05/2022

Nanofabrication Technology, (F20)

Morten Madsen & Yogendra Kumar Mishra
01/02/2021 → 30/06/2021

Optoelectronic Device Project (ODPRO)

Morten Madsen
01/02/2011 → ...

Optoelectronic Device Technology (ODT)

Morten Madsen
01/02/2011 → ...

Pædagogisk grundsyn

Morten Madsen
01/02/2011 → ...

PhD André Cauduro

Morten Madsen
01/10/2012 → 01/10/2016

PhD Arkadiusz Goszczak

Morten Madsen
25/02/2013 → 25/02/2016

PhD Bhushan Patil

Morten Madsen
01/10/2014 → 01/10/2017

PhD Golnaz Sherafatipour

Morten Madsen
01/11/2014 → 01/06/2018

PhD Le Lena Maria Nguyen

Morten Madsen
01/06/2020 → ...

PhD Mariam Ahmad

Morten Madsen
15/12/2019 → ...

PhD Mehrad Ahmadpour

Morten Madsen
01/10/2014 → 01/10/2017

PhD Michal Radziwon

Morten Madsen
01/02/2011 → 25/03/2013

PhD Michela Prete

Morten Madsen
01/01/2018 → ...

PhD Mina Mirsafaei

Morten Madsen
01/10/2014 → 01/02/2018

Sustainable Materials in Product Creation

Lykke Margot Ricard, Sofie Bach Hybel, Søren Buchholtz Storm, , Yasser Ahmad Hannan, Diane Bastien & Morten Madsen
01/02/2020 → 30/06/2020

Employment**Postdoc**

University of California, Berkeley

Berkeley, United States

1. Feb 2010 → 31. Jan 2011

Qualifications

Functional Materials and Nanotechnology, PhD, University of Southern Denmark

Award Date: 15. Sep 2009

Prizes

BHJ Foundation Research Prize 2016

Madsen, Morten (Recipient), 1. Feb 2016

DFF FTP - Large scale integration of nanowire based solar cells

Madsen, Morten (Recipient), 1. Feb 2010