Analysing impact of oxygen and water exposure on roll-coated organic solar cell performance using impedance spectroscopy
Publication: Research - peer-review › Journal article – Annual report year: 2018

High stability of benzotriazole and benzodithiophene containing medium band-gap polymer solar cell
Publication: Research - peer-review › Journal article – Annual report year: 2018

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Publication: Research - peer-review › Journal article – Annual report year: 2018

METHOD AND APPARATUS FOR CHARACTERIZATION OF A SOLAR CELL
Krebs, F. C. 16 Mar 2017
Publication: Research › Patent – Annual report year: 2017

Analysis of electrical and thermal stress effects on PCBM:P3HT solar cells by photocurrent and impedance spectroscopy modeling
Publication: Research - peer-review › Article in proceedings – Annual report year: 2017

A Novel Algorithm for Lifetime Extrapolation, Prediction, and Estimation of Emerging PV Technologies
Publication: Research - peer-review › Journal article – Annual report year: 2017

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Publication: Research - peer-review › Journal article – Annual report year: 2017

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Gobalasingham, N. S., Ekiz, S., Pankow, R. M., Livi, F., Bundgaard, E. & Thompson, B. C. 2017 In : Polymer Chemistry. 8, 30, p. 4393-4402
Publication: Research - peer-review › Journal article – Annual report year: 2017

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Gobalasingham, N. S., Carlè, J. E., Krebs, F. C., Thompson, B. C., Bundgaard, E. & Helgesen, M. 2017 In : Macromolecular Rapid Communications. 38, 22, 7 p., 1700526
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Publication: Research - peer-review › Article in proceedings – Annual report year: 2017

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Publication: Research - peer-review › Conference abstract for conference – Annual report year: 2017

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Publication: Research - peer-review › Journal article – Annual report year: 2017

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Publication: Research - peer-review › Conference abstract for conference – Annual report year: 2017

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Publication: Research - peer-review › Journal article – Annual report year: 2017

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Publication: Research - peer-review › Journal article – Annual report year: 2017

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Publication: Research - peer-review › Article in proceedings – Annual report year: 2017

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Publication: Research - peer-review › Article in proceedings – Annual report year: 2017
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Life-Cycle Assessment of Solar Charger with Integrated Organic Photovoltaics
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Luminescence Imaging Strategies for Drone-Based PV Array Inspection
Publication: Research - peer-review › Article in proceedings – Annual report year: 2017

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Publication: Research - peer-review › Journal article – Annual report year: 2017

New Light Source Setup for Angle Resolved Light Absorption measurement of PV sample
Publication: Research - peer-review › Article in proceedings – Annual report year: 2017

Overcoming the Scaling Lag for Polymer Solar Cells
Publication: Research - peer-review › Journal article – Annual report year: 2017

Printed organic smart devices characterized by nonlinear optical
Publication: Research - peer-review › Conference abstract in proceedings – Annual report year: 2017

Printed organic smart devices characterized by ultra-short laser pulses
Pastorelli, F. 2017
Publication: Research - peer-review › Conference abstract for conference – Annual report year: 2017

Quantification of solar cell failure signatures based on statistical analysis of electroluminescence images
Publication: Research - peer-review › Article in proceedings – Annual report year: 2017

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Publication: Research - peer-review › Article in proceedings – Annual report year: 2017
Synthesis of conjugated polymers with complex architecture for photovoltaic applications
Publication: Research - peer-review › Book chapter – Annual report year: 2017

Toward a drone-based EL and PL inspection tool for PV power plants
Publication: Research - peer-review › Article in proceedings – Annual report year: 2017

Using ISOS consensus test protocols for development of quantitative life test models in ageing of organic solar cells
Publication: Research - peer-review › Journal article – Annual report year: 2017

Voltage and Thermally Driven Roll-to-Roll Organic Printed Transistor Made in Ambient Air Conditions
Pastorelli, F. 2017
Publication: Research - peer-review › Conference abstract for conference – Annual report year: 2017

A stability study of polymer solar cells using conjugated polymers with different donor or acceptor side chain patterns
Publication: Research - peer-review › Journal article – Annual report year: 2016

Baselines for Lifetime of Organic Solar Cells
Publication: Research - peer-review › Journal article – Annual report year: 2016

Characterization and modeling of organic (P3HT:PCBM) solar cells as a function of bias and illumination
Publication: Research - peer-review › Journal article – Annual report year: 2016

Comparison of ultramicrotomy and focused-ion-beam for the preparation of TEM and STEM cross section of organic solar cells
Publication: Research - peer-review › Journal article – Annual report year: 2016

Effects of current stress and thermal storage on polymeric heterojunction P3HT:PCBM solar cell
Publication: Research - peer-review › Article in proceedings – Annual report year: 2016

eGOPV introduction and Printed solar cells
Krebs, F. C. 2016
Publication: Research - peer-review › Sound/Visual production (digital) – Annual report year: 2016

Flow synthesis - the answer to reproducible high-performance conjugated polymers on the scale that R2R processing demands
Helgesen, M. 2016
Publication: Research - peer-review › Sound/Visual production (digital) – Annual report year: 2016
High Current Printed Transistor
Publication: Research - peer-review › Conference abstract in proceedings – Annual report year: 2016

High Current Printed Transistor: Roll-to-Roll Manufacture and Thermal Behavior
Publication: Research - peer-review › Conference abstract for conference – Annual report year: 2016

High Current Temperature Sensitive RolltoRoll Printed Transistor
Pastorelli, F. 2016
Publication: Research - peer-review › Conference abstract for conference – Annual report year: 2016

In situ X-ray scattering of perovskite solar cell active layers roll-to-roll coated on flexible substrates
Publication: Research - peer-review › Journal article – Annual report year: 2016

Laser beam induced current mapping (LBIG) of solar cells
Jørgensen, M. 2016
Publication: Research - peer-review › Sound/Visual production (digital) – Annual report year: 2016

Lifetime of organic photovoltaics: Status and predictions
Gevorgyan, S. 2016
Publication: Research - peer-review › Sound/Visual production (digital) – Annual report year: 2016

Manufacture, installation and decommissioning of organic solar cell parks
Søndergaard, R. R. 2016
Publication: Research - peer-review › Sound/Visual production (digital) – Annual report year: 2016

Playing with Light in Organic Thin-Film Solar Cells
Pastorelli, F. 2016
Publication: Research - peer-review › Conference abstract for conference – Annual report year: 2016

Play with light in thin film organic materials: from nanoscale to smart windows
Pastorelli, F. 2016
Publication: Research - peer-review › Sound/Visual production (digital) – Annual report year: 2016

Polymer materials for roll coated solar cells: strategies to improve performance and stability
Publication: Research › Ph.D. thesis – Annual report year: 2017

Roll-to-Roll Printed Electronics for Standalone Smart Windows
Pastorelli, F. 2016
Publication: Research - peer-review › Conference abstract for conference – Annual report year: 2016

Screening of materials for OPV - finding the perfect candidate(s)
Bundgaard, E. 2016
Publication: Research - peer-review › Sound/Visual production (digital) – Annual report year: 2016

Self-Assembled Plasmonic Nanoparticles for Organic Photovoltaics
Pastorelli, F. 2016
Publication: Research - peer-review › Conference abstract for conference – Annual report year: 2016
Voltage and Thermally Driven High Current Roll-to-Roll Printed Transistors
Pastorelli, F. 2016
Publication: Research - peer-review › Conference abstract for conference – Annual report year: 2016

Projects:

DronEL
01/01/2017 → 31/12/2019
Project

Cost and energy effective all-black solar cell panel | Black Si BIPV | Phase 2
Poulsen, P. B., Thorsteinsson, S., Davidsen, R. S., Iandolo, B., Hansen, O., Riedel, N. & Benatto, G. A. D. R.
01/10/2016 → 30/09/2018
Project

High Current All Printed Transistors
Pastorelli, F.
01/05/2015 → …
Project

Activities:

Advanced Concepts in Photovoltaics
Poulsen, P. B. (Organizer), Benatto, G. A. D. R. (Organizer), Schou, J. (Organizer)
10 Oct 2017 → 13 Oct 2017
Activity: Attending an event › Participating in or organising workshops, courses, seminars etc.

Progress in Photovoltaic Research in Denmark 2017
Poulsen, P. B. (Organizer), Benatto, G. A. D. R. (Organizer)
9 Oct 2017
Activity: Attending an event › Participating in or organising a conference

IN SITU SMALL ANGLE STUDIES OF ROLL-TO-ROLL COATED PEROVSKITE SOLAR CELLS
Rossander, L. H. (Speaker)
14 Sep 2015
Activity: Talks and presentations › Conference presentations

In situ GISAXS/GIWAXS studies of roll-to-roll coated perovskite solar cells
Rossander, L. H. (Speaker)
10 Sep 2015
Activity: Talks and presentations › Conference presentations

Prizes:

Best Poster Award at the Sustain 2017
Gisele Alves dos Reis Benatto (Recipient), Nicholas Riedel (Recipient), Claire Mantel (Recipient), Sune Thorsteinsson (Recipient), Peter Behrens Dorff Poulsen (Recipient), Søren Forchhammer (Recipient), Kenn H. B. Frederiksen (Recipient), Jan Vedde (Recipient), Harsh Parikh (Recipient), Sergiu Spataru (Recipient) & Dezso Sera (Recipient), 6 Dec 2017
Prize: Prizes, scholarships, distinctions