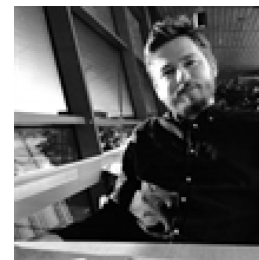


Morten Madsen
Lektor
OPV gruppeleder
SDU NanoSYD
Mads Clausen Institute
Alsion 2
6400, Sønderborg
Denmark
E-mail: madsen@mci.sdu.dk
Phone: +45 65501621
Fax: 65501654



Publikationer

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, I: ACS Applied Energy Materials. 5, 4, s. 5018–5025

2D materials for organic and perovskite photovoltaics

Aryal, U. K., Ahmadpour, M., Turkovic, V., Rubahn, H. G., Di Carlo, A. & Madsen, M., apr. 2022, I: Nano Energy. 94, 24 s., 106833.

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, I: ChemSusChem. 15, 2, 10 s., 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, I: Solar Energy. 232, s. 120-127

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

Lissau, J. S., Khelfallah, M. & Madsen, M., 25. nov. 2021, I: Journal of Physical Chemistry C. 125, 46, s. 25643-25650

Synergistic effect of carotenoid and silicone-based additives for photooxidatively stable organic solar cells with enhanced elasticity

Prete, M., Oglioni, E., Bregnhøj, M., Lissau, J. S., Dastidar, S., Rubahn, H. G., Engmann, S., Skov, A. L., Brook, M. A., Ogilby, P. R., Printz, A., Turkovic, V. & Madsen, M., sep. 2021, I: Journal of Materials Chemistry C. 9, 35, s. 11838-11850

Deciphering electron interplay at the Fullerene/Sputtered TiO_x Interface: a barrier-free electron extraction for organic solar cells

Amelot, D., Ahmadpour, M., Ros, Q., Cruguel, H., Casaretto, N., Cossaro, A., Floreano, L., Madsen, M. & Witkowski, N., 28. apr. 2021, I: ACS Applied Materials and Interfaces. 13, 16, s. 19460-19466

Progress of Hybrid Nanocomposite Materials for Thermoelectric Applications

Bisht, N., More, P., Khanna, P. K., Abolhassani, R., Mishra, Y. K. & Madsen, M., 30. jan. 2021, I: Materials Advances. 6, s. 1927-1956

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

Prete, M., Khenkin, M. V., Glowienka, D., Patil, B. R., Lissau, J. S., Dogan, I., Hansen, J. L., Leißner, T., Fiutowski, J., Rubahn, H. G., Julsgaard, B., Balling, P., Turkovic, V., Galagan, Y., Katz, E. A. & Madsen, M., 2021, I: ACS Applied Energy Materials. 4, 7, s. 6562-6573

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

Greenbank, W., Djeddaoui, N., Destouesse, E., Lamminaho, J., Prete, M., Boukezzi, L., Ebel, T., Bessissa, L., Rubahn, H. G., Engmann, V. & Madsen, M., dec. 2020, I: Energy Technology. 8, 12, 10 s., 2000295.

Planar perovskite solar cells using fullerene C70 as electron selective transport layer

Jafari, F., Bejat, A., Torabi, N., Patil, B. R., Ahmadpour, M., Engmann, V. & Madsen, M., 25. aug. 2020, I: International Journal of Optics and Photonics. 14, 1, s. 15-24

Identification of degradation mechanisms in slot-die coated non-fullerene ITO-free organic solar cells using different illumination spectra

Arredondo, B., del Pozo, G., Hernandez-Balaguera, E., Martin, D. M., Lopez Gonzalez, M. D. C., Romero, B., Lopez-Fraguas, E., Vergaz, R., Quintana, X., Lamminaho, J., Destouesse, E., Ahmadpour, M., Engmann, V. & Madsen, M., 27. jul. 2020, I: ACS Applied Energy Materials. 3, 7, s. 6476-6485

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

Cielecki, P. P., Leissner, T., Ahmadpour, M., Madsen, M., Rubahn, H-G., Fiutowski, J. & Kjelstrup-Hansen, J., jul. 2020, I: Organic Electronics. 82, 7 s., 105717.

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

Pegu, M., Caliò, L., Ahmadpour, M., Rubahn, H-G., Kazim, S., Madsen, M. & Ahmad, S., 25. maj 2020, I: Emergent Materials. 3, 2, s. 109-116

Recent advances in fiber-shaped and planar-shaped textile solar cells

Hatamvand, M., Kamrani, E., Lira-Cantú, M., Madsen, M., Patil, B. R., Vivo, P., Mehmood, M. S., Numan, A., Ahmed, I. & Zhan, Y., maj 2020, I: Nano Energy. 71, 17 s., 104609.

Electrospun ZnO nanofiber interlayers for enhanced performance of organic photovoltaic devices

Mohtaram, F., Borhani, S., Ahmadpour, M., Fojan, P., Behjat, A., Rubahn, H. G. & Madsen, M., feb. 2020, I: Solar Energy. 197, s. 311-316

Sputter-Deposited Titanium Oxide Layers as Efficient Electron Selective Contacts in Organic Photovoltaic Devices

Mirsafaei, M., Jensen, P. B., Ahmadpour, M., Lakhotiya, H., Hansen, J. L., Julsgaard, B., Rubahn, H. G., Lazzari, R., Witkowski, N., Balling, P. & Madsen, M., 27. jan. 2020, I: ACS Applied Energy Materials. 3, 1, s. 253-259

Consensus statement for stability assessment and reporting for perovskite photovoltaics based on ISOS procedures

Khenkin, M. V., Katz, E. A., Abate, A., Bardizza, G., Berry, J. J., Brabec, C., Brunetti, F., Bulovic, V., Burlingame, Q., di Carlo, A., Cheacharoen, R., Cheng, Y-B., Colmann, A., Cros, S., Domanski, K., Dusza, M., Fell, C. J., Forrest, S. R., Galagan, Y., di Girolamo, D. & 39 flere, Grätzel, M., Hagfeldt, A., von Hauff, E., Hoppe, H., Kettle, J., Köbler, H., Leite, M. S., Liu, S., Loo, Y-L., Luther, J. M., Ma, C-Q., Madsen, M., Manceau, M., Matheron, M., McGehee, M., Meitzner, R., Nazeeruddin, M. K., Nogueira, A. F., Odabasi, C., Osherov, A., Park, N-G., Reese, M. O., de Rossi, F., Saliba, M., Schubert, U. S., Snaith, H. J., Stranks, S. D., Tress, W., Troshin, P. A., Engmann, V., Veenstra, S., Visoly-Fisher, I., Walsh, A., Watson, T., Xie, H., Yildirim, R., Zakeeruddin, S. M., Zhu, K. & Lira-Cantu, M., 22. jan. 2020, I: Nature Energy. 5, 1, s. 35-49

Oxygen-dependent photophysics and photochemistry of prototypical compounds for organic photovoltaics: inhibiting degradation initiated by singlet oxygen at a molecular level

Bregnhøj, M., Prete, M., Engmann, V., Petersen, A. U., Nielsen, M. B., Madsen, M. & Ogilby, P. R., jan. 2020, I: Methods and Applications in Fluorescence. 8, 1, 16 s., 014001.

Improving the efficiency of upconversion by light concentration using nanoparticle design

Madsen, S. P., Christiansen, J., Christiansen, R. E., Vester-Petersen, J., Møller, S. H., Lakhotiya, H., Nazir, A., Lissau, J. S., Roesgaard, S., Sigmund, O., Eriksen, E., Destouesse, E., Madsen, M., Julsgaard, B. & Balling, P., 2020, I: Journal of Physics D: Applied Physics. 53, 7, 39 s., 073001.

Slot-die processing and encapsulation of non-fullerene based ITO-free organic solar cells and modules

Destouesse, E., Top, M., Lamminaho, J., Rubahn, H-G., Fahlteich, J. & Madsen, M., 25. nov. 2019, I: Flexible and Printed Electronics. 4, 4, 9 s., 045004.

Biomimetic Approach to Inhibition of Photooxidation in Organic Solar Cells Using Beta-Carotene as an Additive

Turkovic, V., Prete, M., Bregnhøj, M., Inasaridze, L., Volyniuk, D., Obrezkov, F. A., Gražulevičius, J. V., Engmann, S., Rubahn, H-G., Troshin, P. A., Ogilby, P. R. & Madsen, M., 6. nov. 2019, I: *A C S Applied Materials and Interfaces*. 11, 44, s. 41570-41579

Inverted organic solar cells with non-clustering bathocuproine (BCP) cathode interlayers obtained by fullerene doping

Jafari, F., Patil, B. R., Mohtaram, F., Cauduro, A. L. F., Rubahn, H-G., Behjat, A. & Madsen, M., 18. jul. 2019, I: *Scientific Reports*. 9, 8 s., 10422.

Degradation pathways in standard and inverted DBP-C70 based organic solar cells

Sherafatipour, G., Benduhn, J., Patil, B. R., Ahmadpour, M., Spoltore, D., Rubahn, H-G., Vandewal, K. & Madsen, M., 11. mar. 2019, I: *Scientific Reports*. 9, 11 s., 4024.

Crystalline molybdenum oxide layers as efficient and stable hole contacts in organic photovoltaic devices

Ahmadpour, M., Cauduro, A. L. F., Méthivier, C., Kunert, B., Labanti, C., Resel, R., Engmann, V., Rubahn, H-G., Witkowski, N., Schmid, A. K. & Madsen, M., 20. jan. 2019, I: *ACS Applied Energy Materials*. 2, 1, s. 420-427

A soft lithographic approach to fabricate InAs nanowire field-effect transistors

Madsen, M., Lee, S. H., Shin, S-H., Takei, K., Nah, J. & Lee, M. H., 1. dec. 2018, I: *Scientific Reports*. 8, 3204.

Photo-induced Degradation Mechanisms in 4P-NPD Thin Films

Cielecki, P. P., Adam, J., Leissner, T., Patil, B. R., Madsen, M., Rubahn, H-G., Kjelstrup-Hansen, J. & Fiutowski, J., dec. 2018, I: *Organic Electronics*. 63, s. 114-119

Improving the efficiency of solar cells by upconverting sunlight using field enhancement from optimized nano structures

Balling, P., Christiansen, J., Christiansen, R. E., Eriksen, E., Lakhotiya, H., Mirsafaei, M., Møller, S. H., Nazir, A., Vester-Petersen, J., Jeppesen, B. R., Jensen, P. B., Hansen, J. L., Ram, S. K., Sigmund, O., Madsen, M., Madsen, S. P. & Julsgaard, B., 1. sep. 2018, I: *Optical Materials*. 83, s. 279-289

Area dependent behavior of bathocuproine (BCP) as cathode interfacial layers in organic photovoltaic cells

Patil, B. R., Ahmadpour, M., Sherafatipour, G., Qamar, T., Fernandez, A. F., Zojer, K., Rubahn, H-G. & Madsen, M., 22. aug. 2018, I: *Scientific Reports*. 8, s. 1-9 12608.

Benzothiadiazole-triphenylamine as an efficient exciton blocking layer in small molecule based organic solar cells

Caliò, L., Patil, B. R., Benduhn, J., Vandewal, K., Rubahn, H. G., Madsen, M., Kazim, S. & Ahmad, S., aug. 2018, I: *Sustainable Energy and Fuels*. 2, 10, s. 2296-2302

Dynamics of photoinduced degradation of perovskite photovoltaics: from reversible to irreversible processes

Khenkin, M. V., Anoop, K. M., Visoly-Fischer, I., Kolusheva, S., Galagan, Y., Di Giacomo, F., Vukovic, O., Patil, B. R., Sherafatipour, G., Engmann, V., Rubahn, H-G., Madsen, M., Mazanik, A. V. & Katz, E., 2018, I: *ACS Applied Energy Materials*. 1, 2, s. 799-806

Modeling multijunction solar cells by nonlocal tunneling and subcell analysis

Liu, Y., Ahmadpour, M., Adam, J., Kjelstrup-Hansen, J., Rubahn, H-G. & Madsen, M., 2018, I: *IEEE Journal of Photovoltaics*. 8, 5, s. 1363-1369

Numerical analysis on effects of experimental Ga Grading on Cu(In,Ga)Se₂ solar cell performance

Liu, Y., Li, B., Lin, S., Liu, W., Adam, J., Madsen, M., Rubahn, H-G. & Sun, Y., 2018, I: *Journal of Physics and Chemistry of Solids*. 120, s. 190-196

Reconsidering figures of merit for performance and stability of perovskite photovoltaics

Khenkin, M. V., Anoop, K. M., Visoly-Fisher, I., Galagan, Y., Di Giacomo, F., Patil, B. R., Sherafatipour, G., Engmann, V., Rubahn, H-G., Madsen, M., Merckx, T., Uytterhoeven, G., Bastos, J. P. A., Aernouts, T., Brunetti, F., Lira-Cantu, M. & Katz, E., 2018, I: *Energy & Environmental Science*. 11, 4, s. 739-743

Stability of organic solar cells with PCDTBT donor polymer: an interlaboratory study

Ciammaruchi, L., Oliveira, R., Charas, A., Tulus, T., Von Hauff, E., Polino, G., Brunetti, F., Hansson, R., Moons, E., Krassas, M., Kakavelakis, G., Kymakis, E., Sanchez, J. G., Ferre-Borrull, J., Marsal, L., Züfle, S., Fluhr, D., Roesch, R., Faber, T., Schubert, U. S. & 17 flere, Hoppe, H., Bakker, K., Veenstra, S., Zanotti, G., Katz, E. A., Apilo, P., Romero, B., Tumay, T. A., Parlak, E., Stagno, L. M., Engmann, V., Rubahn, H-G., Madsen, M., Kazukauskas, V., Tanenbaum, D., Shanmugam, S. & Galagan, Y., 2018, I: Journal of Materials Research. 33, 13, s. 1909-1924

ITO with embedded silver grids as transparent conductive electrodes for large area organic solar cells

Patil, B. R., Mirsafaei, M., Cielecki, P. P., Fernandes Cauduro, A. L., Fiutowski, J., Rubahn, H-G. & Madsen, M., 6. okt. 2017, I: Nanotechnology. 28, 40, 7 s., 405303.

Current Matching in Multifold DBP/C70 Organic Solar Cells With Open-Circuit Voltages of up to 6.44 V

Ahmadpour, M., Liu, Y., Rubahn, H-G. & Madsen, M., sep. 2017, I: IEEE Journal of Photovoltaics. 7, 5, s. 1319-1323

4P-NPD ultra thin-films as efficient exciton blocking layers in DBP/C₇₀ based organic solar cells

Patil, B. R., Liu, Y., Qamar, T., Rubahn, H-G. & Madsen, M., 2017, I: Journal of Physics D: Applied Physics. 50, 38, 8 s., 385101.

Crystalline Molybdenum Oxide Thin-Films for Application as Interfacial Layers in Optoelectronic Devices

Fernandes Cauduro, A. L., dos Reis, R., Chen, G., K. Schmid, A., Méthivier, C., Rubahn, H-G., Bossard-Giannesini, L., Cruguel, H., Witkowski, N. & Madsen, M., 2017, I: ACS Applied Materials and Interfaces. 9, 8, s. 7717-7724

Cu(II) and Zn(II) based Phthalocyanines as hole selective layers for Perovskite solar cells

Rubahn, H-G., Madsen, M., Calio, L., Follana-Berná, J., Kazim, S., Sastre-Santos, Á. & Ahmad, S., 2017, I: Sustainable Energy & Fuels. 1, 10, s. 2031-2182

Enhanced Absorption in Organic Thin-Films from Imprinted Concave Nanostructures

Goszczak, A. J., Rubahn, H-G. & Madsen, M., 2017, I: MATERIALS SCIENCE (MEDŽIAGOTYRA). 23, 1, s. 6-11

The influence of electrical effects on device performance of organic solar cells with nano-structured electrodes

Mirsafaei, M., Hossein Fallahpour, A., Lugli, P., Rubahn, H-G., Adam, J. & Madsen, M., 2017, I: Scientific Reports. 7, 5300.

Work Function Mapping of MoOx Thin-Films for Application in Electronic Devices

Fernandes Cauduro, A. L., dos Reis, R., Chen, G., K. Schmid, A., Rubahn, H-G. & Madsen, M., 2017, I: Ultramicroscopy. 183, s. 99-103

Long-term stabilization of organic solar cells using hydroperoxide decomposers as additives

Engmann, V. T., Engmann, S., Tsierkezos, N., Hoppe, H., Madsen, M., Rubahn, H-G., Ritter, U. & Gobsch, G., 3. mar. 2016, I: Applied Physics A. 122, 3, s. 1-6

Long-Term Stabilization of Organic Solar Cells using UV Absorbers

Turkovic, V., Engmann, S., Tsierkezos, N., Hoppe, H., Madsen, M., Rubahn, H-G., Ritter, U. & Gobsch, G., 23. feb. 2016, I: Journal of Physics D: Applied Physics. 49, 12, 125604.

Nanoscale aluminum concaves for light-trapping in organic thin-films

Goszczak, A. J., Adam, J., Cielecki, P. P., Fiutowski, J., Rubahn, H-G. & Madsen, M., 2016, I: Optics Communications. 370, s. 135-139 5 s.

Role of the Charge-Transfer State in Reduced Langevin Recombination in Organic Solar Cells: A Theoretical Study

Liu, Y., Zojer, K., Lassen, B., Kjelstrup-Hansen, J., Rubahn, H-G. & Madsen, M., 25. nov. 2015, I: The Journal of Physical Chemistry Part C. 119, 47, s. 26588-26597

Tuning the optoelectronic properties of amorphous MoO_x films by reactive sputtering

Fernandes Cauduro, A. L., Fabrim, Z. E., Ahmadpour, M., Papaleo Fichtner, P. F., Hassing, S., Rubahn, H-G. & Madsen, M., 19. maj 2015, I: Applied Physics Letters. 106, 5 s., 202101.

Crystallites of α -sexithiophene in bilayer small molecule organic solar cells double efficiency

Radziwon, M. J., Fernandes Cauduro, A. L., Madsen, M. & Rubahn, H-G., 11. maj 2014, I: Journal of Nanomaterials. 2014, 6 s., 482372.

Growth of α -sexithiophene nanostructures on C60 thin film layers

Radziwon, M. J., Madsen, M., Balzer, F., Resel, R. & Rubahn, H-G., 2014, I: Thin Solid Films. 558, s. 165–169

Flexible organic solar cells including efficiency enhancing grating structures

Oliveira Hansen, R. M. D., Liu, Y., Madsen, M. & Rubahn, H-G., 2013, I: Nanotechnology. 24, 14, s. 145301

Flexible PCPDTBT:PCBM solar cells with integrated grating structures

Oliveira Hansen, R. M. D., Liu, Y., Madsen, M. & Rubahn, H-G., 2013, I: Proceedings of SPIE, the International Society for Optical Engineering. 8830, s. 883021

AC-driven light emission from in-situ grown organic nanofibers

Liu, X., Kjelstrup-Hansen, J., Oliveira Hansen, R. M. D., Madsen, M. & Rubahn, H-G., 2012, I: Proceedings of SPIE, the International Society for Optical Engineering. 8435, 843524

Efficiency enhancement of ITO-free organic polymeric solar cells by light trapping

Oliveira Hansen, R. M. D., Schiek, M., Liu, Y., Madsen, M. & Rubahn, H-G., 2012, I: Proceedings of SPIE. 8438, 843813

Nanoscale InGaSb Heterostructure Membranes on Si Substrates for High Hole Mobility Transistors

Takei, K., Madsen, M., Fang, H., Kapadia, R., Chuang, S., Kim, H. S., Liu, C-H., Plis, E., Nah, J., Krishna, S., Chueh, Y-L., Guo, J. & Javey, A., 2012, I: Nano Letters. 12, 4, s. 2060-2066 7 s.

Nanoscale Semiconductor "X" on Substrate "Y" – Processes, Devices and Applications

Madsen, M., Takei, K., Kapadia, R., Fang, H., Ko, H., Takahashi, T., Ford, A. C., Lee, M. H. & Javey, A., 2011, I: Advanced Materials. 23, s. 3115-3127

Quantum Confinement Effects in Nanoscale-Thickness InAs Membranes

Takei, K., Fang, H., Kumar, S. B., Kapadia, R., Gao, Q., Madsen, M., Kim, H. S., Liu, C-H., Chueh, Y-L., Plis, E., Krishna, S., Bechtel, H. A., Guo, J. & Javey, A., 2011, I: Nano Letters. 11, s. 5008-5012

Strain engineering of epitaxially transferred, ultrathin layers of III-V semiconductor on insulator

Fang, H., Madsen, M., Carraro, C., Takei, K., Kim, H. S., Plis, E., Chen, S-Y., Krishna, S., Chueh, Y-L., Maboudian, R. & Javey, A., 2011, I: Applied Physics Letters. 98, s. 012111 3 s.

Ultrathin compound semiconductor on insulator layers for high-performance nanoscale transistors

Ko, H., Takei, K., Kapadia, R., Chuang, S., Fang, H., Leu, P. W., Ganapathi, K., Plis, E., Kim, H. S., Chen, S-Y., Madsen, M., Ford, A. C., Chueh, Y-L., Krishna, S., Salahuddin, S. & Javey, A., 11. nov. 2010, I: Nature. 468, s. 286-289 4 s.

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

Oliveira Hansen, R. M. D., Madsen, M., Kjelstrup-Hansen, J., Pedersen, R. H., Gadegaard, N. & Rubahn, H-G., 27. aug. 2010, I: Proceedings of SPIE. 7764, 77640L, 8 s.

In situ-Directed Growth of Organic Nanofibers and Nanoflakes: Electrical and Morphological Properties

Oliveira Hansen, R. M. D., Madsen, M., Kjelstrup-Hansen, J. & Rubahn, H-G., 2010, I: Nanoscale Research Letters. 6, 11, s. 11

The surface microstructure controlled growth of organic nanofibres

Madsen, M., Kjelstrup-Hansen, J. & Rubahn, H-G., 24. feb. 2009, I: Nanotechnology. 20, 11, s. 115601 5 s.

Controlled growth of organic nanofibers on nano- and micro-structured gold surfaces

Madsen, M., Oliveira, R. M. D., Kjelstrup-Hansen, J. & Rubahn, H-G., 2009, I: Proceedings of SPIE, the International Society for Optical Engineering. 7406, s. 74060R 8 s.

Para-hexaphenyl nanofiber growth on Au-coated porous alumina templates

Rubahn, H-G., Madsen, M., Kartopu, G. & Es-Souni, M., 2009, I: Applied Physics A: Materials Science & Processing. 96, s. 591-594 5 s.

Scanning electron microscopy of semiconducting nanowires at low voltages

Tamulevicius, T., Šileikaite, A., Tamulevicius, S., Madsen, M. & Rubahn, H-G., 2009, I: MATERIALS SCIENCE (MEDŽIAGOTYRA). 15, 1, s. 86-90 5 s.

Light scattering from an ordered array of needle-shaped organic nanoaggregates: Evidence for optical mode launching

Fiutowski, J., Bordo, V. G., Jozefowski, L., Madsen, M. & Rubahn, H-G., 19. feb. 2008, I: Applied Physics Letters. 92, s. 073302 3 s.

Bottom-up tailoring of photonic nanofibers

Balzer, F., Madsen, M., Frese, R., Schiek, M., Tamulevicius, T., Tamulevicius, S. & Rubahn, H-G., 2008, I: Proceedings of SPIE, the International Society for Optical Engineering. s. 68830T

Periodic structures modified with silver nanoparticles for novel plasmonic application

Šileikaite, A., Tamulevicius, T., Tamulevicius, S., Andrulevicius, M., Puišo, J., Guobiene, A., Prosycevas, I., Madsen, M., Maibohm, C. & Rubahn, H-G., 2008, I: Proceedings of SPIE, the International Society for Optical Engineering. s. 69881Q-69881Q-11

UV-Laser Treatment in the Nanodomain: Forming of Organic Nanofibers

Balzer, F., Madsen, M., Frese, R., Thilsing-Hansen, K. & Rubahn, H-G., 2006, I: Journal of Laser Micro / Nanoengineering. 1, 3, s. 275-280

Projekter

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

Undervisning og vejledning

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

Ansættelse**Postdoc**

University of California, Berkeley

Berkeley, USA

1. feb. 2010 → 31. jan. 2011

Kvalifikationer

Functional Materials and Nanotechnology, PhD, Syddansk Universitet

Dimissionsdato: 15. sep. 2009

Priser

BHJ Foundation Research Prize 2016

Madsen, Morten (Modtager), 1. feb. 2016

DFF FTP - Large scale integration of nanowire based solar cells

Madsen, Morten (Modtager), 1. feb. 2010