

Aktuelle Veröffentlichungen

Modultechnologie

[Effect of Inhomogeneous Loads on the Mechanics of PV Modules](#)

Pascal Romer, Kishan Bharatbhai Pethani, Andreas J. Beinert

[Effects of Inhomogeneous Snow Load on the Mechanics of a PV Modules](#)

Pascal Romer, Andreas J. Beinert

[Holistic Design Optimization of the PV Module Frame: CTM, FEM, COO and LCA Analysis](#)

Ammar Tummali, Andreas J. Beinert, Christian Reichel, Max Mittag, Holger Neuhaus

[Polysilicon Contact Structures for Silicon Solar Cells Using Atomic Layer Deposited Oxides and Nitrides as Ultra-thin Dielectric Interlayers](#)

Christian Reichel, Frank Feldmann, Armin Richter, Jan Benick, Martin Hermle, Stefan W. Glunz

[A Comparative Life Cycle Assessment of Silicon PV Modules: Impact of Module Design, Manufacturing Location and Inventory](#)

Amelie Müller, Lorenz Friedrich, Christian Reichel, Sina Herceg, Max Mittag, Dirk Holger Neuhaus

[Impact of the Refractive Index on Coupling Structures for Silicon Solar Cells](#)

Laura Stevens, Oliver Höhn, Mario Hanser, Nico Tucher, Claas Müller, Stefan Glunz and Benedikt Bläsi

[Impact of Solar Cell Dimensions on Module Power, Efficiency and Cell-To-Module Losses](#)

Max Mittag, Andrea Pfreundt, Jibrán Shahid

[Performance Analysis of Bifacial PV Modules with Transparent Mesh Backsheet](#)

Juhee Jang, Andrea Pfreundt, Max Mittag, Kyungsoo Lee

[Yield Potential of Vehicle Integrated Photovoltaics on Commercial Trucks and Vans](#)

Christoph Kutter, Luis Eduardo Alanis, Dirk Holger Neuhaus, Martin Heinrich

[Energy Yield Simulation of 3D Curved VIPV Modules](#)

Sebastian Neven-du Mont, Hashem Alharthi, Christoph Kutter, Dirk Holger Neuhaus, Martin Heinrich

[Impact of the Lamination Process on the Adhesion Properties of PV Modules and their Damp Heat Stability](#)

Aksel Kaan Öz, Christoph Herzog, Christine Wellens

[A Comprehensive Study of Module Layouts for Silicon Solar Cells under Partial Shading](#)

Nils Klasen, Florian Lux, Julian Weber, Torsten Roessler, Achim Kraft

[Quantitative Evaluation of the Shading Resilience of PV Modules](#)

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[Root Cause Analysis of Solar Cell Cracks at Shingle Joints](#)

Nils Klasen, Friedemann Heinz, Angela De Rose, Torsten Roessler, Achim Kraft, Marc Kamlah

[Performance of Shingled Solar Modules Under Partial Shading](#)

Nils Klasen, Daniel Weisser, Torsten Rößler, Dirk Holger Neuhaus, Achim Kraft

[Microstructure and Long-Term Stability of Solder Joints on Nickel-Plated Aluminium Formed During Short Soldering Times](#)

Angela De Rose, Gabriele Mikolasch, Mathias Kamp, Achim Kraft, Mathias Nowottnick

[The Sun is Rising on Conductive Adhesives](#)

Daniel Tune, Torsten Rössler, Gernot Oreski, Carolyn Carriere, Christina Kaiser, Tudor Timofte, Nils Klasen, Julian Weber, Bengt Jäckel, Stephan Großer, Matthias Pander, Marko Turek, Marco Galiazzo, Ignacia Devoto, Thomas Fischer, Ingo Ullmann, Dominik Rudolph, Andreas Halm