

ACPV Workshop

List of posters

EU project ThinSi

Kris Van Nieuwenhuysen et al, IMEC, Belgium

Thin film epitaxial cells with improved light trapping features: A decade research @ IMEC.

Kwang-Leong Choy, IMPT, UK

Electrical and Optical Performance of Transparent Conducting Oxide Films Deposited by Electrostatic Spray Assisted Vapour Deposition

Junpeng Liu, Xianghui Hou and Kwang-leong Choy, IMPT, UK

Carrier concentration improvement of TCOs by post treatment

C Xu, L. R. Bailey, G. Proudfoot, B. Mackenzie, K. Beekmann, B. Gunn, M. Cooke, OIPT, UK

A scalable approach for the continuous production of thin film solar cells

Mingwen Tian, David Trimbach, Dmitri Kozodaev, Sergey Timofeev, Alexey Shchekin, Julia Alexeeva, Alexander Ulyashin, NT-MDT, Netherlands; SINTEF, Norway

Revealing stress and current relationship on Si based solar cell on nanoscale by micro raman and conductivity AFM

Keith Wells, Paul Edgar, Sharon Bailey, Jimmy Hsu, Kwang-Leong Choy, IMPT, UK

Scale up deposition of ITO using non vacuum ESAVD method

NT-MDT, Netherlands, **Commercial poster.**

Ntegra Spectra with graphene investigations.

EU Project NanoPV

Amaru Töfflinger, Maurizio Roczen, HZB, Germany

Self-organized Si/SiO₂ nanodots on tunneling oxides for photovoltaic applications

Caspar Leendertz; Amaru Töfflinger et al. HZB, Germany, UVEG, Spain

Colloidal Si-NCs as an emitter in silicon heterojunction solar cells”

R.Slunjski, I. Capan, B. Pivac, RBI, Croatia

Simulation of tunneling current in MOS device structures

G. Kovacevic, B. Pivac, RBI, Croatia

Analysis of Si/SiO₂ interface by molecular dynamics with reactive force field

K. Lovchinov, M. Ganchev, A. Rachkova, O. Angelov, H. Nichev and D. Dimova-Malinovska, CLS, Bulgaria

Optical and structural properties of electrochemically deposited ZnO thin films–influence of the $\text{Al}_2(\text{SO}_4)_3$ concentration in the electrolyte

P.Vitanov, Ch. Dikov, T.Ivanova, A.Harizanova, CLS, Bulgaria

Electrical properties of nanolaminate structures with granular conductivity and its photovoltaic application

K.Lovchinov O.Angelov,D.Dimova-Malinovska, CLS, Bulgaria

Optical and structural properties of doped with Al, V and Nb ZnO thin films deposited by RF magnetron sputtering

P.Vitanov, A.harizanova, T.Ivanova, et al., CLS, Bulgaria

Deposition and properties of pseudobinary allows $(\text{Al}_2\text{O}_3)_x (\text{B}_2\text{O}_3)$ and its application for silicon surface passivation

D.Dimova-Malinovska, K.Lovchinov, M.Ganchev, O.Angelov, M. Petrov, et al., CLS, Bulgaria

Influence of the substrate material on the surface morphology of electrochemically deposited ZnO layers”

Louise R. Bailey, Gary Proudfoot, Brodie Mackenzie. OIPT, UK

Deposition of super lattices for nanoparticle production using pulsed DC reactive sputtering

Jimmy Hsu, Paul Edgar, Kwang-Leong Choy, IMPT, UK

Non vacuum processing of nanomaterials for advanced photovoltaics

G. Jia, B. Eisenhawer, I. Höger, A. Gawlik, I. Sill, J. Plentz, T. Schmidt, J. Dellith, G. Andrä, F. Falk, A. Thürgersen, A. Ulyashin; IPHT, SINTEF

Wet chemically prepared nanowire arrays on low cost substrates for photovoltaic applications

B. Eisenhawer, A. Ulyashin, F. Falk, IPHT, SINTEF

Solar Cells Based on Vapor-Liquid-Solid Grown Silicon Nanowires

Hipersol

Enrique Cabrera, Sara Olibet, Dominik Rudolph, Joachim Glatz-Reichenbach, Radovan Kopecek, International Solar Energy Research Center(ISC)Konstanz, Germany

Daniel Reinke, Anne Götz, and Gunnar Schubert

Sunways AG, Konstanz, Germany

Impact of Si Surface Topography on the Glass Layer Resulting from Screen Printed Ag-Paste Solar Cell Contacts

Sverre G. Johnsen, SINTEF, Norway

Dissolution of Solid Particles by the Phase-Field Method

Keith Butler, University of Sheffield, UK

Modelling Contacting Interfaces in Solar Cells

Other posters

Verena Steckenreiter et al. Institut für Solarenergieforschung GmbH Hameln/Emmerthal (ISFH),
Emmerthal, Germany

Aging behavior of laser welded Al-interconnections manufactured with the AMELI process