

III. SEMINARS & PRESENTATIONS / Vorträge und Konferenzbeiträge

3.-9.3.01 International Winterschool on Electronic Properties of Novel Materials, (IWEPM 01) Kirchberg, Austria

Invited Talk (Sariciftci): *Effect of the Nanostructure & Morphology on the Efficiency of Plastic Solar Cells*

Poster (Neugebauer): *Fullerenes as Functional Moieties in Conjugated Polymers: Towards Donor – Acceptor Double Cable Polymeric Materials*

H. Neugebauer, A. Cravino, G. Zerza, M. Maggini, S. Bucella, G. Scorrano, M. Svensson, M. Andersson, N. S. Sariciftci

10.-17.3.01 Quantsol 2001 , Kirchberg, Austria

organized by Prof. Sariciftci, Prof. Meissner together with Prof. Hummelen

Talk (Meissner): *Amorphus Carbon (a-C:H): a Mono-Elemental CerMet*

B. Rubarth, D. Meissner

Talk (Padinger): *Parameters limiting the lifetime of bulk heterojunction solar cells: a systematic study*

F. Padinger, P. Denk, C.J. Brabec, N.S. Sariciftci

Talk (Knol): *Effects of structural variation in the fullerene-acceptor part on I_{sc} and V_{oc} of conjugated polymer/fullerene bulk heterojunction PV cells*

J. Knol, M. Rispens, J. Hummelen, C. Brabec, N.S. Sariciftci, M. Wienk, J. Kroon

Talk (Brabec): *Efficient Bulk Heterojunction Solar Cells from Conjugated Polymer/Fullerene Blends*

C. Brabec, S. Shaheen, M. Rispens, J. Hummelen, R. Hanssen, D. Meissner, N.S. Sariciftci

Talk (Dyakonov): *Electronic Properties of Polymer-Fullerene Solar Cells*

V. Dyakonov, I. Riedel, J. Parisi, C. Brabec, N.S. Sariciftci, J. Hummelen

Talk (Neugebauer): Donor-Acceptor double cable polymer films prepared by electrochemical polymerization. Investigation of the photoinduced charge transfer as the basic process for optoelectronic devices

H. Neugebauer, A. Cravino, G. Zerza, M. Maggini, S. Bucella, G. Scorrano, M. Svensson, M. Andersson, R. Gomez, J. Segura, N. Martin, N.S. Sariciftci

Talk (Vertsimakha): *Development of Organic Solar Cells in Ukrain: Near IR-Photosensitive Organic Devices*

Y. Vertsimakha, A. Ishchenko, D. Meissner, A. Verbitsky, N. Derevyanko

Further participants: A. Andreev, E. Arici, M. Loi, A. Cravino, H. Hoppe, G. Matt, N.S. Sariciftci

13-19.03.01 American Physical Society March 2001 Meeting, (APS) Seattle, USA

Invited Talk (Brabec): *Plastic Solar Cells*

25.-30.3.01 199th Electrochemical Society Meeting, (ECS)

Symposium Fullerenes, Nanotubes and Carbon Nanoclusters Q2: Electrochemistry and ESR, Washington DC, USA

Invited Talk (Cravino): *Photoinduced electron transfer in donor/acceptor double-cable polymers*

A. Cravino, G. Zerza, H. Neugebauer, S. Bucella, M. Maggini, M. Svensson, M.R. Andersson, N.S. Sariciftci

16.-20.4.01 Materials Research Society-Meeting,(MRS) San Francisco, USA

Talk (Schultz): *Low-temperature recombination kinetics of long-lived, persistent charge carriers in fullerene doped conjugated polymers*

N. Schultz, C. Brabec, N.S. Sariciftci

Talk (Dyakonov): *Electronic properties of Polymer-Fullerene Solar Cells*

V. Dyakonov, I. Riedel, J. Parisi, C. Brabec, N.S. Sariciftci, J. Hummelen

Talk (Shaheen): *Photoinduced electron transfer reactions in organic semiconductors: from Nanoscaled P-N junctions to large area organic Solar Cells*

C. Brabec

Poster (Sitter): *Self-assembled growth of highly oriented paraxiphenyl thin films controlled by elastic strain*

A. Andreev, C. Brabec, N. Sariciftci, H. Sitter, G. Springholz, P. Hinterdorfer

Poster (Scharber): *Magnetic resonance studies on a polythiophene with different solid state morphologies*

M. Scharber, N. Schultz, C. Brabec, N.S. Sariciftci, M. Andersson

Poster (Shaheen): *Effects of inserting small amounts of dielectric material between the active layer and the cathode of polymer based photovoltaic devices*

Poster (Zerza): *A comparative study of photoinduced charge transfer in conjugated polymer-electron acceptor composites*

G. Zerza, M. Scharber, A. Cravino, N.S. Sariciftci, R. Gomez, J. Segura, N. Martin, M. Svensson, M. Andersson

Further Participant: N.S. Sariciftci

23.-24.4.01 Technion Symposium 2001, Wien, Austria

Participant: H. Neugebauer

5.-8.6.01 European-Materials Research Society - Spring Meeting, (E-MRS) Straßburg, France

organized by C. Brabec, A. Jäger-Waldau, J. Poortmans together with A. Slaoui

Invited Talk (Sariciftci): *Recent Developments in Conjugated Polymer Based "Plastic" Solar Cells*

Invited Talk (Dyakonov): *Electrical Studies of Polymer-Fullerene Solar Cells*

V. Dyakonov, I. Riedel, J. Parisi, C.J. Brabec, N.S. Sariciftci, J.C. Hummelen

Invited Talk (Meissner): *Charge Carrier Separation versus Exciton Diffusion Control of Molecular Organic Solar Cells*

D. Meissner, J. Rostalski

Talk (Munters): *A Comparison Between State-of-the-art 'Gilch' and 'Sulphanyl' Synthesised MDMO-PPV/C60 Bulk Hetero-Junction Solar Cells*

T. Munters, C.J. Brabec, T. Martens, L. Goris, V. Vrindts, J. Manca, L. Lutsen, W. De

Ceuninck, N.S. Sariciftci, D. Vanderzande, L. De Schepper, J. Gelan

Talk (Matt): Device Operation of Conjugated Polymer/Fullerene Bulk Hetero-Junction Solar Cells

G. Matt, T. Munters, T. Fromherz, D. Vanderzande, J.C. Hummelen, N.S. Sariciftci, C.J. Brabec

Talk (Andreev): Investigation of highly ordered Para-Sexiphenyl Structures by atomic force Microscopy

A. Andreev, H. Sitter, N.S. Sariciftci, C.J. Brabec, G. Springholz, P. Hinterdorfer, H. Plank, R. Resel

Talk (Padinger): Degradation of Bulk Heterojunction Solar Cells Operated in an Inert Gas Atmosphere: A Systematic study

F. Padinger, P. Denk, C.J. Brabec, N.S. Sariciftci

Poster (Gebeyehu): Solid-State Organic Solar Cells based on conjugated Polymers and Dye-Sensitized TiO₂ Electrodes

D. Gebeyehu, C.J. Brabec, N.S. Sariciftci

Poster (Winder): Photophysical properties of a low Bandgap conjugated Polymer for optoelectronic devices

C. Winder, J.C. Hummelen, R.A.J. Janssen, N.S. Sariciftci, C.J. Brabec

Poster (Luzzati): Photoinduced Electron Transfer from a Dithieno Thiophene-Based Polymer TO Tio₂

S. Luzzati, M. Basso, M. Catellani, D. Gebeyehu, N.S. Sariciftci, C.J. Brabec, N.S. Sariciftci

Poster (Brabec): On the open Circuit Voltage of Bulk-Heterojunction Plastic Solar Cells

C. Brabec, A. Cravino, T. Fromherz, D. Meissner, N.S. Sariciftci, M. Rispens, J. Hummelen

Poster (Andreev): Growth and Characterization of Para-Sexiphenyl thin Films on MoSe₂ and GeS Substrates

A. Andreev, C.J. Brabec, D. Meissner, N.S. Sariciftci, H. Sitter, G. Springholz

Poster (Hoppe): Investigation of Nanoscale Phase Separation in Photovoltaic Conjugated Polymer/Fullerene Blends by AFM-Spectroscopy

H. Hoppe, A. Andreev, C.J. Brabec, N.S. Sariciftci, P. Hinterdorfer, F. Kienberger, J.C. Hummelen

21.-24.6.01 Deutsch – Türkisches Energiesymposium, Ege University Izmir, Turkey

Invited Plenary Talk (Sariciftci): Plastic Solar Cells

26.6.01 Bionik Symposium, Johannes Kepler Universität, Linz

Invited Talk (Sariciftci): Organic Solar Cells based on artificial photosynthesis

23.-25.7.01 First International Conference on Semiconductor Photochemistry, University of Strathclyde, Glasgow, UK

Participants: Elif Arici, Harald Hoppe

23.-27.7.01 10th International Conference on Modulated Semiconductor Structures (MSS 10), Johannes Kepler University Linz, Austria

Poster (Matt): *Device Operation of Conjugated Polymer/Fullerene Bulk Hetero-Junction Solar Cells*

Poster (Plank): *Epitaxial growth of para-sexiphenyl films on mica characterised with X-ray diffraction pole figure technique*

31.7.-5.8.01 The International Society for Optical Engineering (SPIE's) 46th Annual Meeting, San Diego, USA

Invited Talk (Neugebauer): *Highly Efficient Conjugated Polymer/Fullerene Plastic Solar Cells*

C. Brabec, H. Neugebauer, N.S. Sariciftci

Invited Talk (Meissner): *Modeling Organic Solar Cells*

D. Meissner, C. Brabec, A. Cravino, T. Fromherz, C. Hummelen, M. Rispens, J. Rostalski, L. Sanchez, N.S. Sariciftci

24.-30.8.01 American Chemical Society – Meeting, (ACS), Special Symposium on Nobel Laureates Chemistry 2000, Chicago, USA

Invited Talk (Sariciftci): *Conjugated Polymer Solar Cells*

31.8.-7.9.01 2001 Joint International Meeting, The Electrochemical Society,(ECS), International Society of Electrochemistry,(ISE), San Francisco, USA

Invited Talk (Neugebauer): *Plastic Solar Cells with Fullerenes: From Interpenetrating Networks to Double Cables*

4.-8.9.01 10th International Conference on Unconventional Photoactive Systems, (UPS), Les Diablerets, Switzerland

Invited Talk (Sariciftci): *Photoinduced Electron Transfer in Donor/Acceptor Double-Cable Polymers and Application to Plastic Solar Cells*

A. Cravino, G. Zerza, H. Neugebauer, S. Bucella, M. Maggini, M. Svensson, M. Andersson, N.S. Sariciftci

Further Participant: Elif Arici

8.-13.9.01 Photovoltaic Devices Conference, EURESCO ,Tomar, Portugal

Poster (Hoppe): *Plastic Solar Cells*

H. Hoppe, N.S. Sariciftci

10.-14.9.01 V. Russian Conference on Semiconductor Physics, Nizhny Novgorod, Russia

Poster (Andreev): *Highly ordered organic structures on mica by Hot Wall Epitaxy*

18.-23.9.01 4th Convegno Nazionale Materiali Molecolari Avanzati per Fotonica ed Elettronica, Cala Serena, Italy

Invited Talk (Cravino): *Politiofeni con sostituenti elettron-accettori: verso materiali non composti per applicazioni elettroniche e fotovoltaiche*

Invited Talk (Loi): *Interazione intermolecolare in Semiconduttori Organici: Proprieta' Fotofisiche in condizioni di altissima pressione*

20.-25.10.01 Polytronic, Berlin, Germany

Workshop (Padinger): *Plastic Encapsulation Technologies*

24.-26.10.01 17th European Photovoltaic Solar Energy Conference and Exhibition (EPSE), Munich, Germany

Talk: (Meissner): *CIS Plastic Solar Cells*

E. Arici, H. Hoppe, N.S. Sariciftci, D. Meissner

Poster: *CuInSe₂/Polypyrrole photovoltaic structure prepared by electrodeposition*

S. Breznev, J. Kois, E. Mellikov, A. Öpik, D. Meissner

Poster: *Trapping Light in Organic Plastic Solar Cells with integrated Diffraction Gratings*

M. Niggemanna, B. Bläsi, A. Gombert, A. Hinsch, P. Lalanne, V. Wittwer, H. Hoppe, D. Meissner

Further Participant: Elif Arici

8.11.01 Productronica 2001, Munich, Germany

Participant: Padinger

14.-16.11.01 EU-Conference, The Path to Ultra High Efficient Solar Cells, Ispra, Italy

Invited Talk (Sariciftci): *Towards High Efficiency Organic Solar Cells*