

II. PUBLICATIONS

Veröffentlichungen

1. **Hybrid solar cells based on dye-sensitized nanoporous TiO₂ electrodes and conjugated polymers as hole transport materials**
D. Gebeyehu, C. Brabec, S. Sariciftci, D. Vangeneugden, R. Kiebooms, D. Vanderzande, F. Kienberger, H. Schindler
Synthetic Metals 125 (2002) 279-287
2. **Electrochemical and Photophysical Properties of a Novel Polythiophene with Pendant Fulleropyrrolidine Moieties: Toward “Double Cable” Polymers for Optoelectronic Devices**
A. Cravino, G. Zerza, H. Neugebauer, M. Maggini, S. Bucella, E. Menna, M. Svensson, M.R. Andersson, C. Brabec, N.S. Sariciftci
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3. **Photoinduced electron transfer from a dithieno thiophene-based polymer to TiO₂**
S. Luzzati, M. Basso, M. Catellani, D. Gebeyehu, N. S. Sariciftci, C. Brabec
Thin Solid Films 403-404(2002) 52-56
4. **Solid-State Organic/inorganic Hybrid Solar Cells based on Conjugated Polymers and Dye-Sensitized TiO₂ Electrodes**
D. Gebeyehu, C. Brabec, N.S. Sariciftci
Thin Solid Films 403-404 (2002) 271-274
5. **A comparison between state-of-the-art ‘gilch’ and ‘sulphinyl’ synthesised MDMO-PPV / PCBM bulk hetero-junction solar cells**
T. Munters, T. Martens, L. Goris, V. Vrindts, J. Manca, L.Lutsen, W. De Ceuninck, D. Vanderzande, L. De Schepper, J. Gelan, N. Sariciftci, C.Brabec
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6. **The influence of materials work function on the open circuit voltage of plastic solar cells**
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7. **Sensitization of low bandgap polymer bulk heterojunction solar cells**
C. Winder, G. Matt, J. Hummelen, R. Janssen, N. S. Sariciftci, C. Brabec
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8. **Highly ordered anisotropic nano-needles in para-sexiphenyl films**
A. Andreev, H. Sitter, N.S. Sariciftci, C. Brabec, G. Springholz, P. Hinterdorfer, H. Plank, R. Resel, A. Thierry, B. Lotz
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9. **Synthesis and electropolymerisation of 3',4'-Bis(alkylsulfanyl)terthiophenes and the significance of the fused dithiin ring in 2,5-bithienyl-3,4-ethylenedithiophene (BT-EDTT)**
C. Pozo-Gonzalo, T. Khan, J. McDouall, P. Skabara, D. Roberts, M. Light, S. Coles, M. Hursthouse, H. Neugebauer, A. Cravino, N.S. Sariciftci
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10. **Effect of LiF/metal electrodes on the performance of plastic solar cells**
C. Brabec, S. Shaheen, C. Winder, P. Denk, N.S. Sariciftci
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11. **Infrared spectroscopic investigations of organic polymeric photovoltaic systems**
H. Neugebauer, C. Brabec, A. Cravino, T. Yohannes, P. Denk, S. Luzzati, M. Catellani, N.S. Sariciftci
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12. **Positive and Negative Charge Carriers in Doped or Photoexcited Polydithienothiophenes: a Comparative Study using Raman, Infrared and Electron Spin Resonance Spectroscopy**
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13. **Molecular Engineering of C₆₀-Based Conjugated Oligomer Ensembles: Modulating the Competition between Photoinduced Energy and Electron Transfer Processes**
D. Guldi, C. Luo, A. Swartz, R. Gomez, J. Segura, N. Martin, C. Brabec, N. S. Sariciftci
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14. **Structural relationship between epitaxial grown para-sexiphenyl and mica (001) substrates**
H. Plank, R. Resel, A. Andreev, N.S. Sariciftci, H. Sitter
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15. **Double-cable polymers for fullerene based organic optoelectronic applications**
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16. **CuInSe₂/Polypyrrole Photovoltaic Structure Prepared by Electrodeposition**
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17. **Trapping Light in Organic Plastic Solar Cells with integrated Diffraction Gratings**
M. Niggemann, B. Bläsi, A. Gombert, A. Hinsch, H. Hoppe, P. Lalanne, D. Meissner, V. Wittwer
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19. **Polymer Fullerene Networks for Photovoltaic Applications**
I. Riedel, V. Dyakonov, J. Parisi, C. Brabec, N.S. Sariciftci, J. Hummelen
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20. **Electronic Properties of Polymer-fullerene Solar Cells studied with Light-induced Electron Spin Resonance and Admittance Spectroscopy**
V. Dyakonov, I. Riedel, C. Deibel, J. Parisi, C. Brabec, N.S. Sariciftci, J. Hummelen
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A. Andreev, H. Sitter, C. Brabec, P. Hinterdorfer, G. Springholz, N.S. Sariciftci, R. Resel, H. Plank
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23. **Effects of inserting Highly Polar Salts between the Cathode and active Layer of Bulk Heterojunction Photovoltaic Devices**
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28. **Dependence of field-effect hole mobility of PPV-based polymer films on the spin-casting solvent**
W. Geens, J. Poortmans, S. Shaheen, C. Brabec, N.S. Sariciftci, B. Wessling
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29. **Fulleropyrrolidine-phthalocyanine: A new molecule for solar energy conversion**
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32. **Highly aligned organic semiconductor thin films grown by hot wall epitaxy**
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34. **Optical constants of conjugated polymer/fullerene based bulk-heterojunction organic solar cells**
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35. **Organic Rare Earth Complexes in Polymer Matrices and Light Emitting Diodes**
M. Koppe, H. Neugebauer, N.S. Sariciftci
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36. **Comparison of the electrochemical and spectroscopic data of the low-bandgap polymer PTPTB**
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1. **Electronic, Optical and Optoelectronic Polymers and Oligomers**
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H. Frohne, S. Shaheen, C. Brabec, D. Müller, N.S. Sariciftci, K. Meerholz
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12. **Long living photoinduced charge separation for solar cell applications in fulleropyrrolidine-phthalocyanine dyad thin films**
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13. **Organic Photovoltaics (Book)**
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14. **Convenient Synthesis and Polymerisation of 5,6-Disubstituted Dithiopthalides Towards Soluble PITN and Initial Spectroscopic Characterization of the Resulting Low Band Gap Polymers**
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15. **Hybrid Solar Cells based on Nanoparticles of CuInS₂ in Organic Matrices**
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4. **Organic Er- β -diketo complex in fluorinated host matrix**
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5. **Comparison of the electrochemical and optical bandgap of low-bandgap polymers**
D. Mühlbacher, H. Neugebauer, A. Cravino, N.S. Sariciftci
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6. **Optical- and photocurrent detected magnetic resonance studies on konjugated Polymer / Fullerene Composites**
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13. **Aggregate states and energetic disorder in highly-ordered nanostructures of para-sexiphenyl grown by Hot Wall Epitaxy**
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Patente:

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