

## II. PUBLICATIONS / Veröffentlichungen

1. Characterization of Large Area Flexible Plastic Solar Cells Based on Conjugated Polymer/Fullerene Composites  
D. Gebeyehu, F. Padinger, C.J. Brabec, T. Fromherz, J.C. Hummelen, N.S. Sariciftci  
Int. J. of Photoenergy Vol. 1 (1999), 89-93
2. [Infrared spectroelectrochemical investigations on the doping of soluble poly\(isothianaphthene methine\) \(PIM\)](#)  
H. Neugebauer, C. Kvarnström, C. Brabec, N.S. Sariciftci, R. Kiebooms, F. Wudl, S. Luzzati  
J. Chem. Phys 110 (1999) 12108-12115
3. [The spin signature of charged photoexcitations in carbazolyl substituted polydiacetylene](#)  
C. Brabec, H. Johansson, A. Cravino, N.S. Sariciftci, D. Comoretto, G. Dellepiane, I. Maggio  
J. Chem. Phys. 111 (1999), 10354-10361
4. [Photovoltaic Properties of Conjugated Polymer / Methanofullerene Composites Embedded in a Polystyrene Matrix](#)  
C.J. Brabec, F. Padinger, N.S. Sariciftci  
J. Appl. Phys. 85/9 (1999) 6866-6872
5. [Stability Studies and Degradation Analysis of Plastic Solar Cell Materials by FTIR Spectroscopy](#)  
H. Neugebauer, C. J. Brabec, J. C. Hummelen, R. A. J. Janssen, N. S. Sariciftci  
Synth. Metals 102 (1999) 1002-1003
6. [In Situ FTIR Spectroelectrochemical Characterization of Poly\(3,4-Ethylene-dioxythiophene\) Films](#)  
C. Kvarnström, H. Neugebauer, S. Blomquist, H. J. Ahonen, J. Kankare, A. Ivaska, N. S. Sariciftci  
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7. [Investigations of Fullerene Thin Films with In situ FTIR Spectroelectrochemistry](#)  
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8. [Light Induced ESR Studies in Conjugated Polymer-Fullerene Composites](#)  
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Synth. Metals 102 (1999) 1241-1242
9. [Realization of Large Area Flexible Fullerene - Conjugated Polymer Photocells: A Route to Plastic Solar Cells](#)  
C. J. Brabec, F. Padinger, J. C. Hummelen, R. A. J. Janssen, N. S. Sariciftci  
Synth. Metals 102 (1999) 861-864

10. [Photoinduced FTIR Spectroscopy of Conjugated Polymer/Fullerene Composites Embedded into Conventional Host Polymer Matrices](#)  
H. Johansson, C. J. Brabec, H. Neugebauer, J. C. Hummelen, R. A. J. Janssen, N. S. Sariciftci  
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11. [Time Resolved Photoinduced Electron Spin Resonance Studies on Conjugated Polymer Fullerene Mixtures in Solution](#)  
M. C. Scharber, C. J. Brabec, V. Dyakonov, N. S. Sariciftci  
Synth. Metals 101 (1999) 356-357
12. [Photoexcitations in Carbazolyl Substituted Polydiacetylene \(PDA\) Fullerene Composites](#)  
C. Brabec, M. Scharber, H. Johansson, D. Comoretto, G. Dellepiane, I. Moggio, A. Cravino, J.C. Hummelen, N.S. Sariciftci  
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13. [CW-Photocurrent Measurements of Conjugated Polymers and Fullerenes Blended into a Conventional Polymer Matrix](#)  
F. Padinger, C. J. Brabec, J. C. Hummelen, R. A. J. Janssen, N. S. Sariciftci  
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14. [Photoinduced Charge Carriers in Conjugated Polymer-Fullerene Composites Studied with Light-Induced Electron Spin Resonance \(LESR\)](#)  
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15. [Fullerene-Oligophenyl Bilayers Grown by Hot-Wall-Epitaxy](#)  
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Synth. Metals 101 (1999) 656-657
16. [In Situ Spectroelectrochemical Characterization of Poly\(3,4-ethylenedioxythiophene\)](#)  
C. Kvarnström, H. Neugebauer, S. Blomquist, H.J. Ahonen, J. Kankare, A. Ivaska  
Electrochimica Acta 44 (1999) 2739-2750
17. In situ ATR-FTIR spectroelectrochemical comparison of pristine and polymerized C60 films  
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N. Serdar Sariciftci  
Current Opinion in Solid State & Material Science, 1999 4(4), 373-378
21. Fullerenes as photoinduced electron acceptors: from photophysics to photovoltaics  
N. Serdar Sariciftci  
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**In print:**

1. Comparison of photovoltaic devices containing various blends of polymer and fullerene derivatives  
T. Fromherz, F. Padinger, D. Gebeyehu, C. Brabec, J.C. Hummelen, N.S. Sariciftci  
Publ. in 2000: Solar Energy Materials & Solar Cells (SEMISC) 61 (2000) 61-68
2. Photoinduced FT-IR Spectroscopy and CW-Photocurrent Measurements of Conjugated Polymers and Fullerenes Blended into a Conventional Polymer Matrix  
C.J. Brabec, H. Johansson, F. Padinger, H. Neugebauer, J.C. Hummelen, N.S. Sariciftci  
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3. Stability and Photodegradation Mechanisms of Conjugated Polymer / Fullerene Plastic Solar Cells  
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Publ. in 2000: Solar Energy Materials and Solar Cells (SEMISC) 61 (2000) 35-42
4. Vibrational signatures of electrochemical p- and n-doping of poly(3,4-ethylenedioxythiophene) films: an in situ attenuated total reflection Fourier transform infrared (ATR-FTIR) study  
C. Kvarnström, H. Neugebauer, A. Ivaska, N.S. Sariciftci  
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6. Investigation of Photoinduced Charge Transfer in Composites of a Novel Precursor PPV Polymer and Fullerenes  
C.J. Brabec, A. Cravino, G. Zerza, F. Padinger, N.S Sariciftci, R. Kiebooms, D. Vanderzande, J.C. Hummelen  
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7. The Interconnection between Efficiency and Morphology of two component Systems in Plastic Solar Cells  
F. Padinger, D. Gebeyehu, C.J. Brabec, T. Fromherz, N.S. Sariciftci, J.C. Hummelen  
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8. Highly Ordered Crystalline Thin Film Bilayers of para-Hexaphenyl and C60 Grown by Hot Wall Epitaxy  
H. Sitter, G. Matt, A.Y. Andreev, C.J. Brabec, D. Badt, H. Neugebauer, N.S. Sariciftci  
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9. Quenching of the magnetic field effect on the photocurrent and photocurrent detected magnetic resonance in conjugated polymer - fullerene diodes  
M.C. Scharber, C.J. Brabec, F. Padinger, N.S. Sariciftci  
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10. The Influence of Ordering on the Photoinduced Charge Transfer in Composites of Phenyl-type Substituted Polythiophenes with Methanofullerenes  
C.J. Brabec, C. Winder, M. Scharber, N.S. Sariciftci, M.R. Andersson, O. Inganäs, J.C. Hummelen  
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11. Infrared Photospectroelectrochemistry of Germanium/Pedot/Electrolyte Interfaces  
H. Neugebauer, Y. Teketel, N.S. Sariciftci  
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12. Electrochemically- and Photo-Induced IR Absorption of Low Band-Gap Polydithienothiophenes: a Comparative Study  
A. Cravino, H. Neugebauer, N.S. Sariciftci, M. Catellani, S. Luzzati  
MRS Proceedings Boston 99
13. In Situ Attenuated Total Reflection FTIR Spectroelectrochemistry of Benzimidazobenzophenanthroline (BBL)  
Y. Teketel, H. Neugebauer, N.S. Sariciftci, S. Yi, A.A. Jenekhe  
MRS Proceedings Boston 99
14. Conjugated Polymer Based Plastic Solar Cells  
C.J. Brabec, N.S. Sariciftci  
Invited Book Chapter 15 "Conjugated Polymers" edited by G. Hadziannou and P. van Hutten  
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15. Highly Anisotropically Self-Assembled Structures of Para-Sexiphenyl Grown by Hot Wall Epitaxy  
A. Andreev, G. Matt, C.J. Brabec, H. Sitter, Dirk Badt, H. Seyringer, N.S. Sariciftci  
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16. Multiple Electrochemical Doping Induced Insulator-to-Conductor Transitions Observed in Conjugated Ladder Polymer Polybenzimidazobenzophenanthroline (BBL)  
Y. Teketel, H. Neugebauer, N.S. Sariciftci, S. Luzzati, M. Catellani, S. Yi and S.A. Jenekhe  
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17. Photovoltaic Properties of Conjugated Polymer/Fullerene Composites on Large Area Flexible substrates  
D. Gebeyehu, F. Padinger, T. Fromherz, J.C. Hummelen, N.S. Sariciftci  
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18. Electronic Properties of Fullerene/ $\pi$ -Conjugated Polymer Composites, Chapter 11 of the *"Optical & Electronic Properties of Fullerenes and Fullerene-based Materials"*, N. Serdar Sariciftci, edited by Z.V. Vardeny, Z. H. Kafafi and J. Shinar  
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**submitted to:**

1. Infrared spectroelectrochemistry on conducting polymers and fullerenes  
Carita Kvarnström, Helmut Neugebauer, Ari Ivaska  
Advanced Functional Molecules and Polymers (4 Volumes), edited by H.S. Nalwa, Godon and Breach Sci. Publ., Tokyo, chapter
2. The Interplay of Efficiency and Morphology in Photovoltaic Devices Based on Interpenetrating Networks of Poly(3-octylthiophene) with Fullerenes  
D. Gebeyehu, C.J. Brabec, F. Padinger, T. Fromherz, J.C. Hummelen, D. Badt, H. Schindler, N.S. Sariciftci  
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3. Fabrication of large area photovoltaic devices containing various blends of polymer and fullerene derivatives by using the doctor blade technique  
F. Padinger, C.J. Brabec, T. Fromherz, J.C. Hummelen, N.S. Sariciftci  
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