

II. PUBLICATIONS / Veröffentlichungen

1. Investigation of Relaxation Properties of Polymer Melts by Comparison of Relaxation Time Spectra Calculated From Different Algorithms
C. Brabec, H. Rögl, A. Schausberger
Rheol. Acta 36: 667-676, (1997)
2. Investigation of the Linear Flow Regime of Technical Polymers by Numerical Conversion of MVM Creep Measurements
M. Ringhofer, C. Brabec, R Sobczak , D. Mead, J. Driscoll
Rheol. Acta 36: 657-666 (1997)
3. Dynamic Orientation of Oligothiophenes in Nematic Liquid Crystalline Matrices
N. Serdar Sariciftci
Synth. Met. 80, 137-141 (1997)
4. Macroscopic Ordering and Characterization of Conjugated Polymer/Fullerene Photovoltaic Composites in Host-Guest Systems
N.S. Sariciftci, H. Neugebauer, C. Brabec
SPIE Proceeding Series 3142-35, 83 (1997)
5. Electrochemically and Photoinduced Infrared Bands in PPV: A Comparative Study
H. Neugebauer, S. Srinivasan, S. Tasch, G. Leising, N. S. Sariciftci
SPIE Proceeding Series 3145-67, 507-515 (1997)
6. Photoexcitations of Conjugated Polymer- Fullerene Composites in Conventional Polymers
C. J. Brabec, V. Dyakonov, N. S. Sariciftci, W. Graupner, G. Leising
SPIE Proceeding Series 3145-68 (1997)
7. The Optoelectronic Properties of Fullerene-Conjugated Polymer-Conventional Polymer Guest-Host Systems
C. J. Brabec, N. S. Sariciftci, W. Graupner, G. Leising, F. Wudl and A. J. Heeger
Molecular Nanostructures, World Scientific Co. Singapore 128-

131, (1997)

8. Electrochemically Induced IR/V Modes of BeCHA-PPV Studied with in situ FTIR-ATR Spectroscopy
S. Srinivasan, H. Neugebauer and N. S. Sariciftci
Synth. Metals 84, 635-636 (1997)
9. Infrared Photoexcitation Spectra of Conducting Polymer-Methanofullerene Films
K. Lee, E. K. Miller, N. S. Sariciftci, J. C. Hummelen, F. Wudl and A. J. Heeger
Synth. Metals 84, 857-858 (1997)
10. Dynamic Orientation of Conjugated Oligomers in Nematic Liquid Crystalline Matrices
N. S. Sariciftci, U. Lemmer, D. Vacar, A. J. Heeger and R. A. J. Janssen
Synth. Metals 84, 609-610 (1997)
11. Die Plastiksolarzelle
C. J. Brabec and N. S. Sariciftci
Österreichische Kunststoffzeitschrift 28: 54 (1997)
12. Solarzellen aus Plastik
C. Brabec, N. Sariciftci
Erneuerbare Energien 2-97:28-34
13. In Situ ATR-FTIR Spectroscopic Investigations During Electrochemical Reduction of Fullerene Thin Films
H. Neugebauer, C. Kvarnström and N.S. Sariciftci
CPP442, Electronic Properties of Novel Materials: XII International Winterschool, edited by H. Kuzmany et al, The American Institute of Physics, Woodbury, NY, 1998, pp 249-252, L.C. Catalog Card No. 98-86576
14. Studies of Photoinduced Charge Transfer in Conjugated Polymer-Fullerene Composites by Light-Induced ESR
V. Dyakonov, G. Zorinians, M. Scharber, C. J. Brabec, R. A. J. Janssen, J. C. Hummelen and N. S. Sariciftci
Molecular Nanostructures, 257-260 (1998)

15. Photoexcitations of Conjugated Polymer/Fullerene Composites Embedded in Conventional Polymers
C. J. Brabec, V. Dyakonov, N. S. Sariciftci, W. Graupner, G. Leising and J. C. Hummelen
J. Chem. Phys. 109, 1185 - 1195 (1998)
16. Realization of Large Area Flexible Fullerene-Conjugated Polymer Photocells: A Route to Plastic Solar Cells
C. J. Brabec, F. Padinger, V. Dyakonov, J. C. Hummelen, R. A. J. Janssen and N. S. Sariciftci
Molecular Nanostructures, 519-522 (1998)
17. Organic Semiconductors
N. S. Sariciftci
"Wiley Encyclopedia of Electrical and Electronics Engineering"
edited by John G. Webster, John Wiley & Sons, Inc. (1998)
18. Nonlinear Optical Absorption Through Photoinduced Charge Transfer in Conducting Polymer/Methanofullerene Films"
M. Cha, N.S. Sariciftci, A.J. Heeger, J.C. Hummelen and F. Wudl
J. Opt. Sci. Am. B (1998)
19. Electronic Properties of Fullerene/?-Conjugated Polymer Composites
Chapter 9 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, Marcel Dekker Inc., 1997
20. Photophysics, Charge Separation and Associated Device Applications of Conjugated Polymer/Fullerene Composites
N. S. Sariciftci and A. J. Heeger
Chapter 8 of the "*Handbook of Organic Conductive Molecules and Polymers*" edited by Hari Singh Nalwa, John Wiley & Sons, (1997)
(Invited Contribution). Vol. 1, p 413-455

Books:

1. Primary Photoexcitations in Conjugated Polymers: Molecular Exciton versus Semiconductor Band Model
Book, edited by N. S. Sariciftci
World Scientific Publ. , Singapore (1997)

In print:

1. Photoinduced Charge Carriers in Conjugated Polymer-Fullerene Composites Studied with Light-Induced Electron Spin Resonance (LESR)
V. Dyakonov, G. Zorinants, M. Scharber, C. J. Brabec, R. A. J. Janssen, J. C. Hummelen and N. S. Sariciftci
Phys. Rev. B, in print
2. In Situ FTIR Spectroelectrochemical Characterization of Poly(3,4-Ethylenedioxythiophene) Films
C. Kvarnström, H. Neugebauer, S. Blomquist, H. J. Ahonen, J. Kankare, A. Ivaska and N. S. Sariciftci
Synth. Metals, in print
3. Investigations of Fullerene Thin Films with In situ FTIR Spectroelectrochemistry
C. Kvarnström, H. Neugebauer, G. Matt, H. Sitter and N. S. Sariciftci
Synth. Metals, in print
4. Light Induced ESR Studies in Conjugated Polymer-Fullerene Composites
G. Zorinants, V. Dyakonov, M. Scharber, C. J. Brabec, R. A. J. Janssen, J. C. Hummelen, and N. S. Sariciftci
Synth. Metals, in print
5. Photoinduced FTIR Spectroscopy of Conjugated Polymer/Fullerene Composites Embedded into Conventional Host Polymer Matrices
H. Johansson, C. J. Brabec, H. Neugebauer, C. Kvarnström, J. C.

- Hummelen, R. A. J. Janssen and N. S. Sariciftci
Synth. Metals, in print
6. Fullerene-Oligophenyl Multilayers Grown by Hot-Wall-Epitaxy
G. Matt, N. M. Tuan, C. J. Brabec, H. Sitter and N. S. Sariciftci
Synth. Metals, in print
 7. CW-Photocurrent Measurements of Conjugated Polymers and Fullerene Blends in a Conventional Polymer Matrix
F. Padinger, C. J. Brabec, J. C. Hummelen, R. A. J. Janssen and N. S. Sariciftci
Synth. Metals, in print
 8. 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 and N. S. Sariciftci
Synth. Metals, in print
 9. 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
Synth. Metals, in print
 10. Time Resolved Electron Spin Resonance Studies on Photoinduced Electron Transfer in Donor-Acceptor Assemblies
M. C. Scharber, C. J. Brabec, V. Dyakonov and N. S. Sariciftci
Synth. Metals, in print
 11. Realization of Large Area Flexible Plastic Solar Cells Based on Conjugated Polymers and Fullerenes
C. J. Brabec, F. Padinger, J. C. Hummelen, R. A. J. Janssen and N. S. Sariciftci
Synth. Metals, in print
 12. Investigation of Electron Transfer Systems with respect to PDA
C. J. Brabec, D. Comoretto, G. Dellepiane, I. Moggio, A. Cravino
La Chimica E L' Industria, in print
 13. In Situ Spectroelectrochemical Characterization of Poly(3,4-

ethylenedioxythiophene)

C. Kvarnström, H. Neugebauer, S. Blomquist, H.J. Ahonen, J. Kankare, A. Ivaska

Electrochimica Acta, in print

14. Supramolecular Photophysics and Photovoltaic Devices of Fullerene/Conjugated Polymer Composites

N. S. Sariciftci

Chapter 3 of the "*Fullerene Polymers and Fullerene-Polymer Composites*" edited by P. C. Eklund and A. M. Rao, Springer-Verlag, in print

submitted :

4 papers are submitted to international journals (31 Dec. 1998)