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## II. PUBLICATIONS

### *Veröffentlichungen*

1. **Hybrid Solar Cells**  
S. Guenes, N.S. Sariciftci  
Inorganica Chimica Acta 361 (2008), 581
2. **Mobile Ionic Impurities in Poly(vinyl alcohol) Gate Dielectric: Possible Source of the Hysteresis in Organic Field-Effect Transistors**  
M. Egginger, M. Irimia-Vladu, R. Schwödianer, A. Tanda, I. Frischauf, S. Bauer, N.S. Sariciftci  
Advanced Materials 20 (2008), 1018
3. **Organic Field-Effect Transistors: From Material to Device Physics**  
B. Singh, N.S. Sariciftci, M. Jaiswal, R. Menon  
Chapter 4 of Handbook of Organic Electronics and Photonics,  
Edited by Hari Singh Nalwa, Vol 3 (2008), 153
4. **Ionic Impurities in Poly(vinyl alcohol) Gate Dielectrics and Hysteresis Effects in Organic Field Effect Transistors**  
M. Egginger, M. Irimia-Vladu, R. Schwödianer, A. Tanda, S. Bauer, N.S. Sariciftci  
MRS Symp. Proc. Vol. 1091 (2008), 1091-AA11-46
5. **Temperature Tuning of Nonlinear Exciton Processes in Self-Assembled Oligophenyl Nanofibers under Laser Action**  
F. Quochi, M. Saba, F. Cordella, A. Gocalinska, R. Corpino, M. Marceddu, A. Anedda, A. Andreev, H. Sitter, N.S. Sariciftci, A. Mura, G. Bongiovanni  
Advanced Materials 20 (2008), 3017
6. **Substituting the postproduction treatment for bulk-heterojunction solar cells using chemical additives**  
A. Pivrikas, P. Stadler, H. Neugebauer, N.S. Sariciftci  
Organic Electronics 9 (2008), 775-782
7. **Synthesis of poly(2,5-Thienylene Vinylene) and its derivatives: Low band gap materials for photovoltaics**  
F. Banishoeib, A. Henckens, S. Fourier, G. Vanhooyland, M. Bresselge, J. Manca, T.J. Cleij, L. Lutsen, D. Vanderzande, L.H. Nguyen, H. Neugebauer, N.S. Sariciftci  
Thin Solid Films 516 (2008), 3978-3988

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8. **Luminescent Tags on Fullerenes: Eu<sup>3+</sup> Complexes with Pendant Fullerenes**  
A. Fuchsbauer, O. A. Troshina, P. Troshin, R. Koeppe, R. N. Lyubovskaya, N.S. Sariciftci  
Advanced Functional Materials 18 (2008), 1-7
  9. **Vacuum-Processed Polyaniline-C<sub>60</sub> Organic Field Effect Transistors**  
M. Irimia-Vladu, N. Marjanovic, A. Vlad, A. Moutagne Ramil, G. Hernandez-Sosa, R. Schwödiauer, S. Bauer, N.S. Sariciftci  
Advanced Materials 20 (2008), 1-6
  10. **Photovoltaic and photophysical properties of a novel bis-3-hexylthiophene substituted quinoxaline derivative**  
S. Guenes, D. Baran, G. Guenbas, F. Özyurt, A. Fuchsbauer, N.S. Sariciftci, L. Toppare  
Solar Energy Materials & Solar Cells 92 (2008), 1162-1169
  11. **Photovoltaic characterization of hybrid solar cells using surface modified TiO<sub>2</sub> nanoparticles and poly(3-hexyl)thiophene**  
S. Guenes, N. Marjanovic, J.M. Nedeljkovic, N.S. Sariciftci  
Nanotechnology 19 (2008), 424009
  12. **Energy Transfer from CdSe/ZnS Nanocrystals to Zinc-Phthalocyanine for Advanced Photon Harvesting in Organic Photovoltaics**  
R. Koeppe, A. Fuchsbauer, S. Lu, N.S. Sariciftci  
Progress in Colloid and Polymer Science 135 (2008), 16-20
  13. **Current filamentation and negative differential resistance in C<sub>60</sub> diodes**  
P. Stadler, G. Hesser, T. Fromherz, G. Matt, H. Neugebauer, N.S. Sariciftci  
physica status solidi (b) 245, No. 10 (2008), 2300-2302
  14. **IV-VI Nanocrystal-polymer solar cells**  
K. Fritz, S. Guenes, J. Luther, S. Kumar, N.S. Sariciftci, G. Scholes  
Journal of Photochemistry and Photobiology A: Chemistry 195 (2008), 39-46
  15. **Monitoring the channel formation in organic field effect transistors via photoinduced charge transfer**  
T. B. Singh, R. Koeppe, N. S. Sariciftci, M. Morana, C. Brabec  
Advanced Functional Materials 19 (2009), 1-7

**In print/submitted**

1.        **Hybrid materials and their potential applications for white light emitting diodes**  
E. Arici-Bogner  
Thin Solid Films Special Issue for the International Conference on Science and Technology of Synthetic Metals 2008 (ICSM 2008). In press
  
2.        **Recent developments of hybrid concepts for photovoltaic applications**  
E. Arici-Bogner submitted as a book chapter in “Inorganic Nanoparticles, New Frontiers Of Research” edited by C. Altavilla, published by Research Signpost, in press
  
3.        **Nanocrystalline Inorganic Materials in Dye Sensitized Solar Cells**  
E. Arici-Bogner, S. Günes , N. S. Sariciftci,  
submitted to Journal of Materials Chemistry
  
4.        **Organic Electronics in Memories and Sensing Applications**  
Th. Birendra Singh, Siegfried Bauer, Niyazi Serdar Sariciftci  
Organic Electronics in Sensors and Biotechnology  
Ruth Shinar and Joseph Shinar, Editors, McGraw Hills, in press
  
5.        **Light- and touch-point localization using flexible large area organic photodiodes and elastomer waveguides**  
R. Koeppe, P. Bartu, S. Bauer, N. S. Sariciftci  
Advanced Materials, submitted
  
6.        **Organic solar cells with semi-transparent metal back contacts for power windows applications**  
R. Koeppe, D. Hoeglinger, P. A. Troshin, R. N. Lyubovskaya, V. F. Razumov, N. S. Sariciftci  
ChemSusChem, in print
  
7.        **Trannulenes: A new Class of Photoactive Materials for Organic Photovoltaic Devices**  
P. A. Troshin, R. Koeppe, D. K. Susarova, N. V. Polyakova, A. S. Peregudov, V. F. Razumov, N. S. Sariciftci, R. N. Lyubovskaya  
Chemistry – A European Journal, submitted
  
8.        **Bio-organic optoelectronic devices using DNA**  
Thokchom Birendra Singh , Niyazi Serdar Sariciftci and James G. Grote  
Advances in Polymer science, Special Volume: Organic Electronics, Springer series,  
Editors, Grasser, Meller and Li, in press

9. **Material Solubility-Photovoltaic Performance Relationship in the Design of Novel Fullerene Derivatives for Bulk Heterojunction Solar Cells**  
P. A. Troshin, H. Hoppe, J. Renz, M. Egginger, J. Y. Mayorova, A. E. Goryachev, A. S. Peregudov, R. N. Lyubovskaya, G. Gobsch, N. S. Sariciftci, V. F. Razumov  
Advanced Functional Materials, accepted
  
10. **Small-molecule vacuum processed melamine-C60, organic field-effect transistors**  
M. Irimia-Vladu, N. Marjanovic, M. Bodea, G. Hernandez-Sosa, A. Montaigne-Ramil, R. Schwödiauer, S. Bauer, N.S. Sariciftci, F. Nuesch  
Organic Electronics, in press

**Patente:**

1. Capacitive sensors based on organic diodes, AT, PCT pending