

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. Breselge, J. Manca, T.J. Cleij, L. Lutsen, D. Vanderzande, L.H. Nguyen, H. Neugebauer, N.S. Sariciftci
Thin Solid Films 516 (2008), 3978-3988
8. [Luminescent Tags on Fullerenes: Eu³⁺ Complexes with Pendant Fullerenes](#)
A. Fuchsbaauer, O. A. Troshina, P. Troshin, R. Koeppe, R. N. Lyubovskaya, N.S. Sariciftci
Advanced Functional Materials 18 (2008), 1-7

9. [Vacuum-Processed Polyaniline-C₆₀ Organic Field Effect Transistors](#)
M. Irimia-Vladu, N. Marjanovic, A. Vlad, A. Montaigne Ramil, G. Hernandez-Sosa, R. Schwödianer, 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 TiO₂ 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 C₆₀ 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. Koeppel, 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. Koeppel, 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. Koeppel, 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. Schwödauer, S. Bauer, N.S. Sariciftci, F. Nuesch
Organic Electronics, in press

Patente:

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