

II. PUBLICATIONS

Veröffentlichungen

1. **Photovoltaic performance of PPE-PPV copolymers: effect of the fullerene component**
D. Susarova, E. Khakina, P. Troshin, A. Goryachev, N. S. Sariciftci, V. Razumova, D. Egbe
Journal of Materials Chemistry 21 (2011) 2356
2. **Electrochromic and electroluminescent devices based on a novel branched quasi-dendric fluorene-carbazole-2,5-bis(2-thienyl)-1H-pyrrole system**
S. Koyuncu, O. Usluer, M. Can, S. Demic, S. Icli, N. S. Sariciftci
Journal of Materials Chemistry 21 (2011), 2684
3. **[70]Fullerene-Based Materials for Organic Solar Cells**
P. A. Troshin, H. Hoppe, A. S. Peregodov, M. Egginger, S. Shokhovets, G. Gobsch, N. S. Sariciftci, V. F. Razumov
ChemSusChem 4 (2011), 119
4. **Luminescence and spectroscopic studies of organometallic rhodium and rhenium multichromophore systems carrying polypyridyl acceptor sites and phenylethynyl antenna subunits**
K. Oppelt, D.A.M. Egbe, U. Monkowius, M. List, M. Zabel, N.S. Sariciftci, G. Knör
Journal of Organometallic Chemistry 696 (2011), 2252
5. **Water soluble poly(1-vinyl-1,2,4-triazole) as novel dielectric layer for organic field effect transistors**
M. Abbas, G. Cakmak, N. Tekin, A. Kara, H.Y. Guney, E. Arici, N.S. Sariciftci
Organic Electronics 12 (2011), 497
6. **Mobility and photovoltaic performance studies on polymer blends: effects of side chains volume fraction**
G. Adam, A. Pivrikas, A. Montaigne-Ramil, S. Tadesse, T. Yohannes, N.S. Sariciftci, D.A.M. Egbe
Journal of Materials Chemistry 21 (2011), 2594
7. **Meyer–Neldel rule for charge carrier transport in fullerene devices: A comparative study**
A. Pivrikas, M. Ullah, Th.B. Singh, C. Simbrunner, G. Matt, H. Sitter, N.S. Sariciftci
Organic Electronics 12 (2011), 161
8. **Exotic materials for bio-organic electronics**
M. Irimia-Vladu, N.S. Sariciftci, S. Bauer
Journal of Materials Chemistry Vol 21, Nr 5 (2011) 1273

9. **Effect of source-drain electric field on the Meyer–Neldel energy in organic field effect transistors**
M. Ullah, A. Pivrikas, I.I. Fishchuk, A. Kadashchuk, P. Stadler, C. Simbrunner, N. S. Sariciftci, H. Sitter
Applied Physics Letters 98, (2011), 223301
10. **Electric field dependent activation energy of electron transport in fullerene diodes and field effect transistors: Gill’s law**
A. Pivrikas, M. Ullah, H. Sitter, N.S. Sariciftci
Applied Physics Letters 98 (2011), 092114
11. **Doping of organic semiconductors induced by lithium fluoride/aluminum electrodes studied by electron spin resonance and infrared reflection-absorption spectroscopy**
E. Glowacki, K. Marshall, C. Tang, N.S. Sariciftci
Applied Physics Letters 99 (2011), 043305
12. **Electric field and grain size dependence of Meyer–Neldel energy in C₆₀ films**
M. Ullah, A. Pivrikas, I. Fishchuk, A. Kadashchuk, P. Stadler, C. Simbrunner, N.S. Sariciftci, H. Sitter
Synthetic Metals 161 (2011), 1987
13. **Natural and nature-inspired semiconductors for organic electronics**
E. D. Głowacki, L. Leonat, G. Voss, M. Bodea, Z. Bozkurt, M. Irimia-Vladu, S. Bauer, N. S. Sariciftci
Proceedings of SPIE Vol. 8118 (2011), 81180M-1
14. **Control of Structural, Electronic, and Optical Properties of Eumelanin Films by Electrospray Deposition**
M. Abbas, M. Ali, S. K. Shah, F. D’Amico, P. Postorino, S. Mangialardo, M. Cestelli Guidi, A. Cricenti, R. Gunnella
The Journal of Physical Chemistry B 115 (2011), 11199
15. **Variability of physical characteristics of electro-sprayed poly(3-hexylthiophene) thin films**
M. Ali, M. Abbas, S. K. Shah, E. Bontempi, P. Colombi, A. Di Cicco, R. Gunnella
Journal of Applied Physics 110 (2011), 054515
16. **High mobility, low voltage operating C₆₀ based n-type organic field effect transistors**
G. Schwabegger, M. Ullah, M. Irimia-Vladu, M. Baumgartner, Y. Kanbur, R. Ahmed, P. Stadler, S. Bauer, N.S. Sariciftci, H. Sitter
Synthetic Metals 161 (2011), 2058

17. **Anodized Aluminum Oxide Thin Films for Room-Temperature-Processed, Flexible, Low-Voltage Organic Non-Volatile Memory Elements with Excellent Charge Retention**
M. Kaltenbrunner , P. Stadler , R. Schwödianer , A. W. Hassel , N. S. Sariciftci , S. Bauer
Advanced Materials 23 (2011), 4892
18. **Comparative study of bulk and interface transport in disordered fullerene films**
A. Pivrikas, M. Ullah, C. Simbrunner, H. Sitter, H. Neugebauer, N. S. Sariciftci
physica status solidi b 248, No. 11 (2011), 2656
19. **Ambipolar organic field effect transistors and inverters with the natural material Tyrian Purple**
E. D. Głowacki, L. Leonat, G. Voss, M.-A. Bodea, Z. Bozkurt, A. Montaigne Ramil, M. Irimia-Vladu, S. Bauer, N. S. Sariciftci
AIP Advances 1 (2011), 042132-1
20. **In Situ Spectroelectrochemical Study of Positively and Negatively Charged States in a Donor/Acceptor EDOT/Benzotriazole-Based Polymer**
B. Meana-Esteban, A. Balan, D. Baran, H. Neugebauer, L. Toppare, N. S. Sariciftci
Macromolecular Chemistry and Physics 212 (2011), 2459
21. **Organic Bulk Heterojunction Solar Cells Based on Poly(p-Phenylene-Vinylene) Derivatives**
C. Yumusak, D. A. M. Egbe
Solar Cells - New Aspects and Solutions edited by L. A. Kosyachenko
InTech - Open Access Publisher, ISBN 978-953-307-761-1, Chapter 19 (2011), 415-432
22. **Charge transfer excitons in low band gap polymer based solar cells and the role of processing additives**
M. Scharber, C. Lungenschmied, H.-J. Egelhaaf, G. Matt, M. Bednorz, T. Fromherz, J. Gao, D. Jarzabd, M. A. Loi
Energy & Environmental Science 4 (2011), 5077
23. **Indigo - A Natural Pigment for High Performance Ambipolar Organic Field Effect Transistors and Circuits**
M. Irimia-Vladu , E. D. Głowacki , P. A. Troshin , G. Schwabegger , L. Leonat , D. K. Susarova , O. Krystal , M. Ullah , Y. Kanbur , M. A. Bodea , V. F. Razumov , H. Sitter , S. Bauer , N. S. Sariciftci
Advanced Materials, 24 (2012), 375

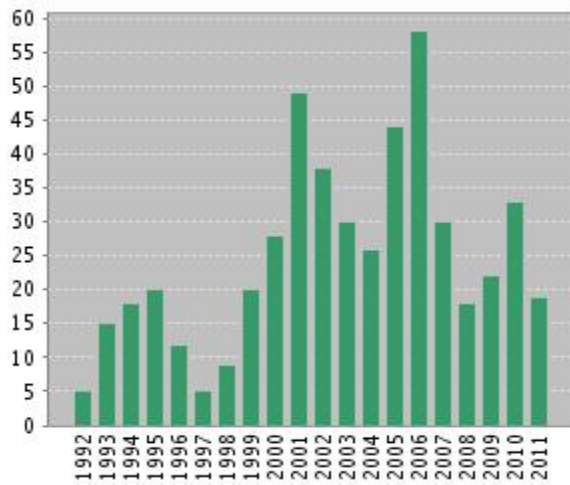
24. **Supramolecular Chemistry for Organic Photovoltaics**
P. Troshin, N.S. Sariciftci
book chapter in Supramolecular Chemistry: From Molecules to Nanomaterials
Edited by Philip A. Gale and Jonathan W. Steed
2012 John Wiley & Sons, Ltd. ISBN: 978-0-470-74640-0

in print/submitted

1. **Organic Solar Cells**
E.D. Głowacki, C.W. Tang, N.S. Sariciftci
invited book chapter in Encyclopedia of Sustainability Science and Technology, accepted
2. **Ultra-thin, -light, and -flexible organic solar cells**
M. Kaltenbrunner, M. S. White, E. D. Glowacki, T. Sekitani, T. Someya, N. S. Sariciftci, S. Bauer
Nature Communications, accepted
3. **Photo-Fries-based photosensitive polymeric interlayers for patterned organic devices**
A. Montaigne Ramil, G. Hernandez-Sosa, T. Griesser, C. Simbrunner, T. Hoefler, G. Trimmel, W. Kern,
Q. Shen, C. Teichert, G. Schwabegger, H. Sitter, N. Serdar Sariciftci
submitted to the Journal of Applied Physics A
4. **Vacuum Processed Polyethylene as a Trap-free Dielectric for Low Voltage Operating Organic Field Effect Transistors**
Y. Kanbur, M. Irimia-Vladu, E.D. Glowacki, M. Baumgartner, G. Schwabegger, L.N. Leonat, M. Ullah,
H. Sitter, R. Schwödiauer, Z. Kücükayavuz, S. Bauer, N.S. Sariciftci
Organic Electronics, accepted
5. **Indigo – From Ancient Natural Dye to Modern Organic Semiconductor**
E.D. Glowacki, G. Voss, L.N. Leonat, M. Irimia-Vladu, S. Bauer, N.S. Sariciftci,
invited review article for the special issue dedicated to Prof. Ching W. Tang
Israel Journal of Chemistry, accepted
6. **Electrochemical doping for lowering contact barriers in organic field effect transistors**
S. Schaur, P. Stadler, B. Meana Esteban, H. Neugebauer, N. S. Sariciftci
submitted to Organic Electronics

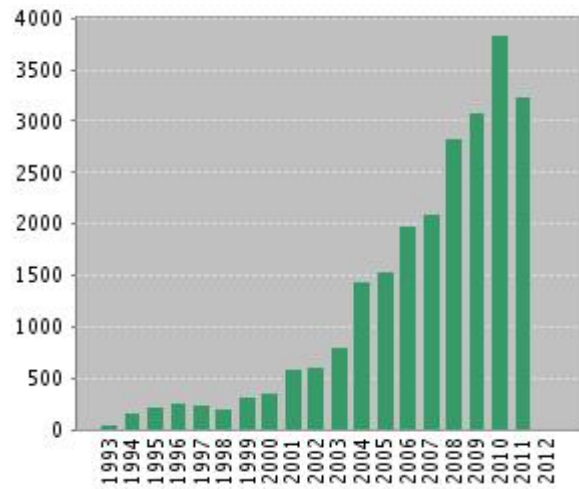
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