

II. PUBLICATIONS

Veröffentlichungen

1. **Electrochemical characterization of sub-micro-gram amounts of organic semiconductors using scanning droplet cell microscopy**
J. Gasiorowski, A. Mardare, N. S. Sariciftci, A. W. Hassel
Journal of Electroanalytical Chemistry 691 (2013), 77
2. **Doping-Induced Immobile Charge Carriers in Polyazomethine: A Spectroscopic Study**
J. Gasiorowski, E. Glowacki, B. Hajduk, M. Siwy, M. Chwastek-Ogierman, J. Wieszka, H. Neugebauer, N. S. Sariciftci
The Journal of Physical Chemistry C 117 (2013), 2584
3. **Improved Photovoltaic Performance of PPV-Based Copolymers Using Optimized Fullerene-Based Counterparts**
P. Troshin, O. Mukhacheva, Ö. Usluer, A. Goryachev, A. Akkuratov, D. Susarova, N. Dremova, S. Rathgeber, N. S. Sariciftci, V. Razumov, D. A. M. Egbe
Advanced Energy Matererials 3 (2013), 161–166
4. **Hydrogen-Bonded Semiconducting Pigments for Air-Stable Field-Effect Transistors**
E. Glowacki, M. Irimia-Vladu, M. Kaltenbrunner, J. Gasiorowski, M. White, U. Monkowius, G. Romanazzi, G. Suranna, P. Mastroilli, T. Sekitani, S. Bauer, T. Someya, L. Torsi, N. S. Sariciftci
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5. **Optical and electrical properties of electrochemically doped organic field effect transistors**
C. Yumusak, M. Abbas, N. S. Sariciftci
Journal of Luminescence 134 (2013), 107
6. **Electronic and optoelectronic materials and devices inspired by nature**
P. Meredith, C. Bettinger, M. Irimia-Vladu, A. Mostert, P. Schwenn
Reports on Progress in Physics 76 (2013), 034501
7. **Natural Materials for Organic Electronics**
M. Irimia-Vladu, E. Glowacki, N. S. Sariciftci, S. Bauer
Small Organic Molecules on Surfaces, H. Sitter et al (eds), Springer Series in Materials Sciences 173, (2013) ISBN 978-3-642-33847-2

8. **Dipole-Controlled Energy Level Alignment at Dielectric Interfaces in Organic Field-Effect Transistors**
P. Stadler, A. M. Track, G. Koller, N. S. Sariciftci, M. G. Ramsey
Small Organic Molecules on Surfaces, H. Sitter et al (eds), Springer Series in Materials Sciences 173, (2013), ISBN 978-3-642-33847-2
9. **Natural resin shellac as a substrate and a dielectric layer for organic field-effect transistors**
M. Irimia-Vladu, E. Głowacki, G. Schwabegger, L. Leonat, H. Akpınar, H. Sitter, S. Bauer, N. S. Sariciftci
Green Chemistry Vol. 15, Nr 6 (2013), 1385
10. **Electrocatalytic Reduction of Carbon Dioxide to Carbon Monoxide by a Polymerized Film of an Alkynyl-Substituted Rhenium(I) Complex**
E. Portenkirchner, J. Gasiorowski, K. Oppelt, S. Schlager, C. Schwarzinger, H. Neugebauer, G. Knoer, N. S. Sariciftci
ChemCatChem 5 (2013), 1790
11. **Comparative study of arylene bisimides substituted with imidazole side group for different dielectrics on the OFET application**
C. Tozlu, S. Erten-Ela, Th. B. Singh, N. S. Sariciftci, S. Icli
Synthetic Metals 172 (2013), 5
12. **Silicon/organic hybrid heterojunction infrared photodetector operating in the telecom regime**
M. Bednorz, G. Matt, E. Głowacki, T. Fromherz, C. Brabec, M. Scharber, H. Sitter, N. S. Sariciftci
Organic Electronics, 14 (2013), 1344
13. **Surface morphology, optical properties and conductivity changes of poly(3,4-ethylenedioxythiophene):poly(styrenesulfonate) by using additives**
J. Gasiorowski, R. Menon, K. Hingerl, M. Dachev, N. S. Sariciftci
Thin Solid Films 536 (2013), 211
14. **Efficiency of Bulk-Heterojunction Organic Solar Cells**
M. C. Scharber, N. S. Sariciftci
Progress in Polymer Science, 38 (2013), 1929
15. **Improved Phase Separation in Polymer Solar Cells by Solvent Blending**
C. Kaestner, B. Muhsin, A. Wild, D. A. M. Egbe, S. Rathgeber, H. Hoppe
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16. **Tuning the properties of an anthracene-based PPE-PPV copolymer by fine variation of its macromolecular parameters**
F. Tinti, F. Sabir, M. Gazzan, S. Righi, C. Ulbricht, O. Usluer, V. Pokorna, V. Cimrova, T. Yohannes, D. A.M. Egbe, N. Camaioni
RSC Advances 3, (2013), 6972
17. **Improvement of photovoltaic performance by ternary blending of amorphous and semi-crystalline polymer analogues with PCBM**
C. Kaestner, S. Rathgeber, D. A. M. Egbe, H. Hoppe
Journal of Materials Chemistry A 1 (2013), 3961
18. **Breakthroughs in Photonics 2012: Large-Area Ultrathin Photonics**
M. Kaltenbrunner, M. White, T. Sekitani, N. S. Sariciftci, S. Bauer, T. Someya
IEEE Photonics Journal Vol 5, No 2, (2013), 0700805
19. **A facile protection–deprotection route for obtaining indigo pigments as thin films and their applications in organic bulk heterojunctions**
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20. **Electro- and photo-chemistry of rhenium and rhodium complexes for carbon dioxide and proton reduction: a mini review**
E. Portenkirchner, K. Oppelt, D. A. M. Egbe, G. Knoer, N. S. Sariciftci
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21. **Formulations and processing of nanocrystalline TiO₂ films for the different requirements of plastic, metal and glass dye solar cell applications**
V. Zardetto, G. De Angelis, L. Vesce, V. Caratto, C. Mazzuca, J. Gasiorowski, A. Reale, A. Di Carlo, T. M. Brown
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22. **Measuring internal quantum efficiency to demonstrate hot exciton dissociation**
M. Scharber
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23. **Hydrogen-bonds in molecular solids – from biological systems to organic electronics**
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24. **Ultrathin, highly flexible and stretchable PLEDs**
M. White, M. Kaltenbrunner, E. Glowacki, K. Gutnichenko, G. Kettlgruber, I. Graz, S. Aazou, C. Ulbricht, D. A. M. Egbe, M. C. Miron, Z. Major, M. C. Scharber, T. Sekitani, T. Someya, S. Bauer, N. S. Sariciftci
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25. **Characterization of local electrochemical doping of high performance conjugated polymer for photovoltaics using scanning droplet cell microscopy**
J. Gasiorowski, A. I. Mardare, N. S. Sariciftci, A. W. Hassel
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26. **On the potential of porphyrin-spiked triarylamine stars for bulk heterojunction solar cells**
T. Kengthanomma, P. Thamyongkit, J. Gasiorowski, A. Montaigne Ramil, N. S. Sariciftci
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27. **Organic Bulk Heterojunction Solar Cells Based on P3HT and Anthracene-Containing PPE-PPV: Fabrication, Characterization and Modeling**
S. Aazou, A. Ibral, M. White, M. Kaltenbrunner, E. Glowacki, D. A. M. Egbe, N. S. Sariciftci, E. M. Assaid
Journal of Optoelectronics and Advanced Materials Vol 13, No. 5-6 (2013), 395
28. **Temperature dependent charge transport in organic field-effect transistors with the variation of both carrier concentration and electric field**
M. Abbas, A. Pivrikas, E. Arici, N. Tekin, M. Ullah, H. Sitter, N. S. Sariciftci
Journal of Physics D: Applied Physics 46 (2013), 49105
29. **Organic Nanomaterials for Efficient Bulk Heterojunction Solar Cells**
P. A. Troshin, N. S. Sariciftci
Organic Nanomaterials: Synthesis, Characterization, and Device Application, First Edition. Edited by T. Torres, G. Bottari (2013), 549

30. **Dielectric Function of Undoped and Doped Poly[2-methoxy-5-(3',7'-dimethyloctyloxy)-1,4-phenylene-vinylene] by Ellipsometry in a Wide Spectral Range**
J. Gasiorowski, K. Hingerl, R. Menon, T. Plach, H. Neugebauer, K. Wiesauer, C. Yumusak, N. S. Sariciftci
The Journal of Physical Chemistry C 117 (2013), 22010
31. **25th Anniversary Article: Progress in Chemistry and Applications of Functional Indigos for Organic Electronics**
E. Glowacki, G. Voss, N. S. Sariciftci
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32. **Charge Carrier Dynamics in a Ternary Bulk Heterojunction System Consisting of P3HT, Fullerene, and a Low Bandgap Polymer**
M. Koppe, H.-J. Egelhaaf, E. Clodic, M. Morana, L. Lüer, A. Troeger, V. Sgobba, D. Guldi, T. Ameri, C. Brabec
Advanced Energy Materials Vol. 3, Issue 7, (2013), 949
33. **Franck-Condon analysis of the photoluminescence spectra of a triple-bond containing polymer as a solution and as a thin film**
M.A. Saidania, A. Benfredj, Z. Ben Hamed, S. Romdhane, C. Ulbricht, D.A.M. Egbe, H. Bouchriha
Synthetic Metals 184 (2013), 83
34. **Laser ultrasonic receivers based on organic photorefractive polymer composites**
S. Zamiri, B. Reitingner, E. Portenkirchner, T. Berer, E. Font-Sanchis, P. Burgholzer, N. S. Sariciftci, S. Bauer, F. Fernandez-Lazaro
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35. **Semiconducting polymer based bulk heterojunction solar cells**
M. White, N. S. Sariciftci,
Polymers for energy storage and conversion, John Wiley and Sons, ed. Vikas Mittal, 2013
ISBN: 978-1-118-34454-5
36. **Multiple stress degradation analysis of the active layer in organic photovoltaics**
V. Turkovic, S. Engmann, D. A. M. Egbe, M. Himmerlich, S. Krischok, G. Gobsch, H. Hoppe
Solar Energy Materials & Solar Cells 120 (2014), 654

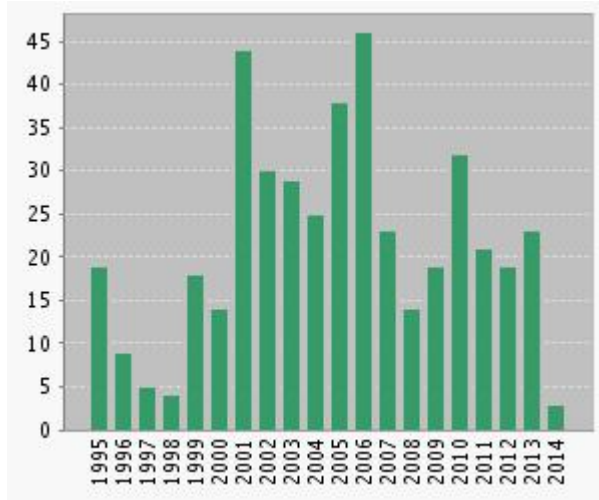
37. **White organic lightemitting diodes based on fluorene-carbazole dendrimers**
Ö. Usluer, S. Demic, M. Kus, F. Özel, N. S. Sariciftci
Journal of Luminescence 146 (2014), 6
38. **An efficient organic inverted solar cell with AnE-PVstat:PCBM active layer and V2O5/Al anode layer**
A. Kösemen, N. Tore, E. A. Parlak, Z. A. Kösemen, C. Ulbricht, O. Usluer, D. A. M. Egbe, Y. Yerli, S. E. San
Solar Energy 99 (2014), 88-94
39. **Polydiacetylene-nested porphyrin as a potential light harvesting component in bulk heterojunction solar cells**
C. Reanprayoon, J. Gasiorowski, M. Sukwattanasinitt, N. S. Sariciftci, P. Thamyongkit
RSC Advances 4 (2014), 3045
40. **“Green” electronics: biodegradable and biocompatible materials and devices for sustainable future**
Mihai Irimia-Vladu
Chem Soc Rev 43 (2014), 588
41. **Anthracene-Containing Conjugated Polymer Showing Four Optical Transitions Upon Doping: A Spectroscopic Study**
J. Gasiorowski, S. Boudiba, K. Hingerl, C. Ulbricht, V. Fattori, F. Tinti, N. Camaioni, R. Menon, S. Schlager, L. Boudida, N. S. Sariciftci, D. A. M. Egbe
Journal of Polymer Science, Part B: Polymer Physics 52 (2014), 338
42. **Photoelectrochemical scanning droplet cell microscopy for localized photovoltaic investigations on organic semiconductors**
J. Gasiorowski, J. P. Kollender, K. Hingerl, N. S. Sariciftci, A. I. Mardare, A. W. Hassel
Physical Chemistry Chemical Physics 16 (2014), 3739

Patente

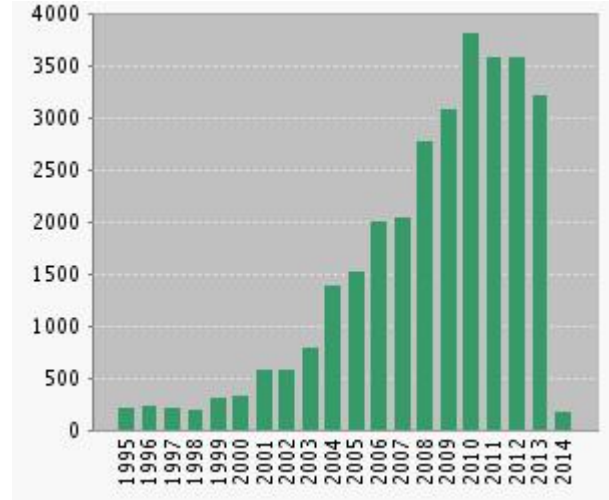
1. **Verfahren zum Aufbringen einer organischen Halbleiterschicht auf der Basis von Epindolidion auf einen Träger**
E.D. Glowacki, G. Voss
Patent Application 2013, Österreichische Patentanmeldung A50504/2013

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