

## II. PUBLICATIONS

### *Veröffentlichungen*

1. 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
2. White organic light emitting diodes based on fluorene-carbazole dendrimers  
Ö. Usluer, S. Demic, M. Kus, F. Özel, N. S. Sariciftci  
*Journal of Luminescence* 146 (2014), 6
3. An efficient organic inverted solar cell with AnE-PVstat:PCBM active layer and V<sub>2</sub>O<sub>5</sub>/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
4. 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
5. “Green” electronics: biodegradable and biocompatible materials and devices for sustainable future  
Mihai Irimia-Vladu  
*Chemical Society Reviews* 43 (2014), 588
6. 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
7. 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

8. Improvement in photovoltaic performance of anthracene-containing PPE-PPV polymer-based bulk heterojunction solar cells with silver nanoparticles  
N. Tore, E. A. Parlak, T. A. Tumay, P. Kavak, S. Sarioglan, S. Bozar, S. Günes, C. Ulbricht, D. A. M. Egbe  
Journal of Nanoparticle Research 16 (2014), 2298
9. Substrate-oriented nanorod scaffolds in polymer–fullerene bulk heterojunction solar cells  
Y. Ogawa, M. S. White, L. Sun, M. C. Scharber, N. S. Sariciftci, T. Yoshida  
ChemPhysChem 15 (2014), 1070
10. Electrochemical self-assembly of nanostructured CuSCN / rhodamine B hybrid thin film and its dye-sensitized photocathodic property  
T. Iwamoto, Y. Ogawa, L. Sun, M. S. White, E. D. Glowacki, M. C. Scharber, S. N. Sariciftci, K. Manseki, T. Sugiura, T. Yoshida  
The Journal of Physical Chemistry C 118 (2014), 16581
11. Photoresistance and photo induced current hysteresis in bulk heterojunction systems P3HT-PCBM-polymethine dye  
V. N. Bliznyuk, J. Gasiorowski, A. A. Ishchenko, G. V. Bulavko, N. A. Derevyanko, N. S. Sariciftci  
Organic Electronics 15(2014) 1105
12. Photosensitivity of top gate C60 based OFETs: Potential applications for high efficiency organic photodetector  
R. Ahmed, A. Kadashchuk, C. Simbrunner, G. Schwabegger, M. Havlicek, E. Głowacki, N.S. Sariciftci, M.A. Baig, H. Sitter  
Organic Electronics 15 (2014), 175
13. Two-electron carbon dioxide reduction catalyzed by rhenium(I) bis(imino)acenaphthene carbonyl complexes  
E. Portenkirchner, E. Kianfar, N. S. Sariciftci, G. Knoer  
ChemSusChem 7 (2014), 1347
14. 4% Efficient polymer solar cells on paper substrates  
L. Leonat, M. White, E. Glowacki, M. Scharber, T. Zillger, J. Rühling, A. Hübler, S. N. Sariciftci  
The Journal of Physical Chemistry C 118 (2014), 16813

15. Inverted bulk-heterojunction solar cell with cross-linked hole-blocking layer  
Y. Udum, P. Denk, G. A. Workneh, D. Apaydin, A. Nevsad, C. Teichert, M. White, N. S. Sariciftci, M. C. Scharber  
*Organic Electronics* 15 (2014), 997
16. Effect of side chains on charge transport of anthracene-based PPE–PPV copolymers  
F. Tinti, F. K. Sabir, M. Gazzano, S. Righi, Ö. Usluer, C. Ulbricht, T. Yohannes, D. A. M. Egbe, N. Camaioni  
*Macromolecular Chemistry and Physics* 215 (2014), 452
17. Direct electrochemical capture and release of carbon dioxide using an industrial organic pigment: quinacridone  
D. Apaydin, E. Głowacki, E. Portenkirchner, N. S. Sariciftci  
*Angewandte Chemie International Edition* 53 (2014) 6819
18. Quinacridone on Ag(111): hydrogen bonding versus chirality  
T. Wagner, M. Györök, D. Huber, P. Zeppenfeld, E. Glowacki  
*The Journal of Physical Chemistry C* 118 (2014), 10911
19. Photoinduced energy transfer from poly(N-vinylcarbazole) to tricarbonylchloro-(2,2′-bipyridyl)rhenium(I)  
E. Portenkirchner, D. Apaydin, G. Aufischer, M. Havlicek, M. White, M. C. Scharber, N. S. Sariciftci  
*ChemPhysChem* 15 (2014), 3634
20. (Photo)physical properties of new molecular glasses end-capped with thiophene rings composed of diimide and imine units  
M. Grucela-Zajac, K. Bijak, S. Kula, M. Filapek, M. Wiacek, H. Janeczek, L. Skorka, J. Gasiorowski, K. Hingerl, N. S. Sariciftci, N. Nosidlak, G. Lewinska, J. Sanetra, E. Schab-Balcerzak  
*The Journal of Physical Chemistry C* 118 (2014), 13070
21. Photoelectrochemical and electrochemical characterization of sub-micro-gram amounts of organic semiconductors using scanning droplet cell microscopy  
J. P. Kollender, J. Gasiorowski, N. S. Sariciftci, A. I. Mardare, A. W. Hassel  
*The Journal of Physical Chemistry C* 118 (2014), 16919

22. Effect of varying thiophene units on charge-transport and photovoltaic properties of poly(phenylene ethynylene)-alt-poly(phenylene vinylene) polymers  
G. Adam, T. Yohannes, M. White, A. Montaigne, C. Ulbricht, E. Birckner, S. Rathgeber, C. Kästner, H. Hoppe, N. S. Sariciftci, D. A. M. Egbe  
Macromolecular Chemistry and Physics 215, (2014), 1473
23. Air-stable organic semiconductors based on 6,60-dithienylindigo and polymers thereof  
E. Glowacki, D. Apaydin, Z. Bozkurt, U. Monkowius, K. Demirak, E. Tordin, M. Himmelsbach, C. Schwarzinger, M. Burian, R. Lechner, N. Demitri, G. Voss, N. S. Sariciftci  
Journal of Materials Chemistry C 2 (2014), 8089
24. Sol-gel derived  $\text{In}_2\text{S}_3$  buffer layers for inverted organic photovoltaic cells  
F. Aslan, G. Adam, P. Stadler, A. Goktas, I. Halil Mutlu, N. S. Sariciftci  
Solar Energy 108 (2014), 230
25. 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  
Applied Physics B 114 (2014), 509
26. Multifrequency X,W-band ESR study on photo-induced ion radical formation in solid films of mono- and di-fullerenes embedded in conjugated polymers  
A. Konkin, U. Ritter, P. Scharff, G. Mamin, A. Aganov, S. Orlinskii, V. Krinichnyi, D.A.M. Egbe, G. Ecke, H. Romanus  
Carbon 77 (2014), 11-17
27. Control of charge generation and recombination in ternary polymer/polymer:fullerene photovoltaic blends using amorphous and semi-crystalline copolymers as donors  
H. Mangold, A. A. Bakulin, I. A. Howard, C. Kästner, D. A. M. Egbe, H. Hoppe, F. Laquai  
Physical Chemistry Chemical Physics 16 (2014), 20329
28. Rhodium-coordinated poly(arylene-ethynylene)-alt-poly(arylenevinylene) copolymer acting as photocatalyst for visible-light-powered  $\text{NAD}^+/\text{NADH}$  Reduction  
K. T. Oppelt, J. Gasiorowski, D. A. M. Egbe, J. P. Kollender, M. Himmelsbach, A. W. Hassel, N. S. Sariciftci, G. Knör  
Journal of the American Chemical Society 136 (2014), 12721

29. A comparison of pyridazine and pyridine as electrocatalysts for the reduction of carbon dioxide to methanol  
E. Portenkirchner, C. Enengl, S. Enengl, G. Hinterberger, S. Schlager, D. Apaydin, H. Neugebauer, G. Knör, N. S. Sariciftci  
ChemElectroChem 1 (2014), 1543
30. Using the alkynyl-substituted rhenium(I) complex (4,4'-bisphenyl-ethynyl-2,2'-bipyridyl)Re(CO)<sub>3</sub>Cl as catalyst for CO<sub>2</sub> reduction—synthesis, characterization, and application  
E. Portenkirchner, S. Schlager, D. Apaydin, K. Oppelt, M. Himmelsbach, D. A. M. Egbe, H. Neugebauer, G. Knör, T. Yoshida, N. S. Sariciftci  
Electrocatalysis (2014) DOI 10.1007/s12678-014-0230-1
31. Hydrogen-bonded diketopyrrolopyrrole (DPP) pigments as organic semiconductors  
E. Glowacki, H. Coskun, M. Blood-Forsythe, U. Monkowius, L. Leonat, M. Grzybowski, D. Gryko, M. White, A. Aspuru-Guzik, N. S. Sariciftci  
Organic Electronics 15 (2014), 3521
32. Hydrogen-bonded organic semiconductor micro- and nanocrystals: from colloidal syntheses to (opto-)electronic devices  
M. Sytnyk, E. Glowacki, S. Yakunin, G. Voss, W. Schöfberger, D. Kriegner, J. Stangl, R. Trotta, C. Gollner, S. Tollabimazraehno, G. Romanazzi, Z. Bozkurt, M. Havlicek, N. S. Sariciftci, W. Heiss  
Journal of the American Chemical Society 136 (2014), 16522
33. Role of recombination, dissociation, and competition between exciton-charge reactions in magnetoconductance of polymeric semiconductor device  
M. Radaoui, M. A. Saidani, A. Ben Fredj, S. Romdhane, M. Havlicek, D. A. M. Egbe, N. S. Sariciftci, H. Bouchriha  
Journal of Applied Physics 116 (2014), 183901
34. Charge separation in PCPDTBT:PCBM blends from an EPR perspective  
F. Kraffert, R. Steyrlauthner, S. Albrecht, D. Neher, M. C. Scharber, R. Bittl, J. Behrends  
The Journal of Physical Chemistry C 118 (2014), 28482
35. Origin of Meyer-Neldel type compensation behavior in organic semiconductors at large carrier concentrations: Disorder versus thermodynamic description  
I. I. Fishchuk, A. Kadashchuk, A. Mityashin, M. M. Gavrilyuk, A. Köhler, H. Bässler, J. Genoe, H. Sitter, N. S. Sariciftci  
Physical Review B 90 (2014), 245201

36. Control of nanostructure and crystallographic orientation in electrodeposited ZnO thin films via structure directing agents  
K. Ichinose, T. Mizuno, M. White, T. Yoshida  
Journal of the Electrochemical Society 161, (2014), D195
37. Polymerisable octahedral rhenium cluster complexes as precursors for photo/electroluminescent polymers  
O. Efremova, K. Brylev, O. Kozlova, M. White, M. Shestopalov, N. Kitamura, Y. Mironov, S. Bauer, A. Sutherland  
The Journal of Physical Chemistry C 2 (2014), 8630
38. Fabrication and characterization of green light emitting diode  
S. Siahjani, M. White, N. S. Sariciftci, S. Erten-Ela  
Turkish Journal of Physics 38 (2014), 509
39. Epindolidiones-versatile and stable hydrogen-bonded pigments for organic field-effect transistors and light-emitting diodes  
E. D. Głowacki, G. Romanazzi, C. Yumusak, H. Coskun, U. Monkowius, G. Voss, M. Burian, R. T. Lechner, N. Demitri, G. J. Redhammer, N. Sünger, G. P. Suranna and S. Sariciftci  
Advanced Functional Materials Vol 25, Issue 5, (2014), 776
40. Polycyclic anthanthrene small molecules: semiconductors for organic field-effect transistors and solar cells applications  
J-B. Giguère, N. S. Sariciftci, J.-F. Morin  
Journal of Materials Chemistry C 3 (2015), 601
41. Polymer aggregation control in polymer–fullerene bulk heterojunctions adapted from solution  
C. Kästner, D. A. M. Egbe, H. Hoppe  
Journal of Materials Chemistry A 3 (2015), 395
42. Spectroscopic characterization of a red light-emitting polymer: Anthracene-containing poly(p-arylene-ethynylene)-alt-poly(p-arylene-vinylene)  
M. Radaoui, E. Hleli, Z. Ben Hamed, A. Ben Fredj, H. Hrichi, S. Romdhane, D. A. M. Egbe, H. Bouchriha  
Material Science in Semiconductor Processing 30 (2015), 285

## Patente

### 1. Verfahren zum Aufbringen einer organischen Halbleiterschicht auf der Basis von Epindolidion auf einen Träger

E.D. Glowacki, G. Voss

Patent issued A50504/2014

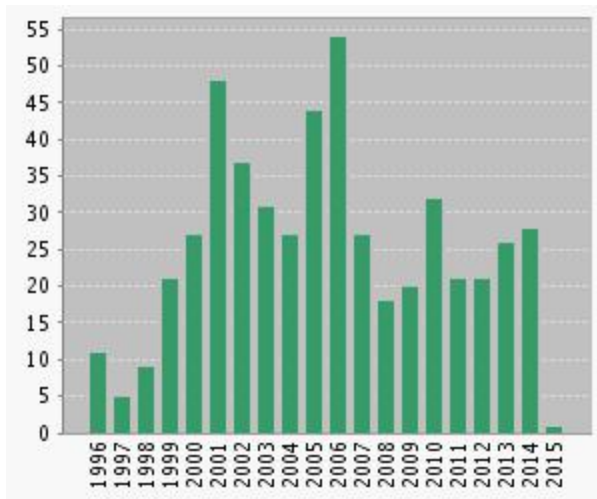
### 2. Optoelektronischer Infrarotsensor

V. Derek, E. D. Glowacki, M. Ivanda, N. S. Sariciftci

Patent Application: A50534/2014

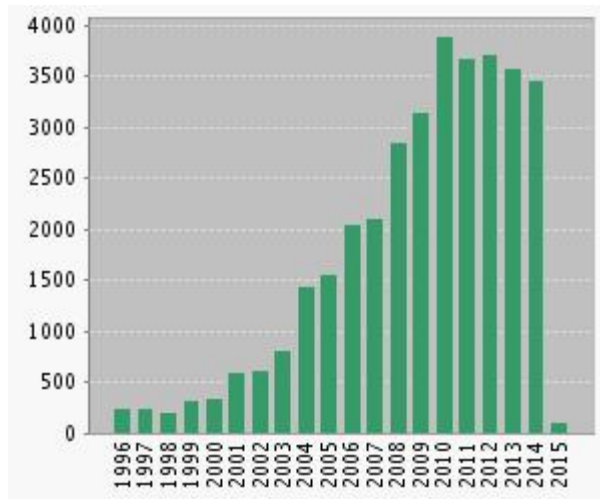
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