

II. PUBLICATIONS

Veröffentlichungen

1. **On the Efficiency Limit of Conjugated Polymer:Fullerene-Based Bulk Heterojunction Solar Cells**
M. C. Scharber
Advanced Materials 28 (2016), 1994
2. **Synthesis and Photophysical and Electroluminescent Properties of Poly(1,4-phenylene – ethynylene)- alt -poly(1,4-phenylene – vinylene)s with Various Dissymmetric Substitution of Alkoxy Side Chains**
N. Bouguerra, A. Ruzicka, C. Ulbricht, C. Enengl, S. Enengl, V. Pokorna, D. Vyprachticky, E. Tordin, R. Aitout, Vera Cimrova, D. A. M. Egbe
Macromolecules Vol 49 (2016), 455
3. **Electrochemical Reduction of Carbon Dioxide to Methanol by Direct Injection of Electrons into Immobilized Enzymes on a Modified Electrode**
S. Schlager, L. M. Dumitru, M. Haberbauer, A. Fuchsbauer, H. Neugebauer, D. Hiemetsberger, A. Wagner, E. Portenkirchner, N. S. Sariciftci
ChemSusChem 9 (2016), 631
4. **Photoelectrochemical Reduction of CO₂ Using Third-Generation Conjugated Polymers**
D. H. Apaydin, E. Tordin, E. Portenkirchner, G. Aufischer, S. Schlager, M. Weichselbaumer, K. Oppelt, N. S. Sariciftci
ChemistrySelect 6 (2016), 1156
5. **Modulation of charge carrier mobility by side-chain engineering of bi(thienylenevinylene)thiophene containing PPE – PPVs**
R. R. Jadhav, N. Camaioni, K. Oppelt, F. Tinti, M. Gazzano, V. Fattori, P. P. Wadgaonkar, S. Rathgeber, H. Hoppe, D. A. M. Egbe
RSC Advances 6 (2016), 51642
6. **Solution processed perovskite solar cells using highly conductive PEDOT:PSS interfacial layer**
G. Adam, M. Kaltenbrunner, E. D. Glowacki, D. H. Apaydin, M. S. White, H. Heilbrunner, S. Tombe, P. Stadler, B. Ernecker, C. W. Klampfl,
N. S. Sariciftci, M. C. Scharber
Solar Energy Materials & Solar Cells 157 (2016), 318

7. **Photovoltaic cells based on ternary P3HT:PCBM:polymethine dye active layer transparent in the visible range of light**
V. N. Bliznyuk, J. Gasiorowski, A. A. Ishchenko, G. V. Bulavko, M. Rahaman, K. Hingerl, D. R.T. Zahn, N. S. Sariciftci
Applied Surface Science 389 (2016), 419
8. **Surface-Induced Phase of Tyrian Purple (6,6'-Dibromoindigo): Thin Film Formation and Stability**
M. Truger, O. M. Roscioni, C. Rothel, D. Kriegner, C. Simbrunner, R. Ahmed, E. D. Glowacki, J. Simbrunner, I. Salzmann, A. M. Coclite, A. O. F. Jones, R. Resel
Cristal Growth & Design 16 (2016), 3647
9. **Nano- and micro-structured silicon for hybrid near infrared photodetectors**
V. Derek, E. D. Glowacki, M. Bednorz, S. Demchyshyn, N. S. Sariciftci, M. Ivanda
Proc. of SPIE Vol. 9891 (2016), 989107-1
10. **Temperature and layer thickness dependent in situ investigations on epindolidione organic thin-film transistors**
R. Lassnig, B. Striedinger, A.O.F. Jones, B. Scherwitzl, A. Fian, E.D. Glowacki, B. Stadlober, A. Winkler
Synthetic Metals 218 (2016), 64
11. **Hydrogen-Bonded Organic Semiconductors as Stable Photoelectrocatalysts for Efficient Hydrogen Peroxide Photosynthesis**
M. Jakesova, D. H. Apaydin, M. Sytnyk, K. Oppelt, W. Heiss, N. S. Sariciftci, E. D. Glowacki
Advanced Functional Materials 26 (2016), 5248
12. **Different Device Architectures for Bulk-Heterojunction Solar Cells**
G. Adam, B. Munkhbat, P. Denk, C. Ulbricht, C. Hrelescu, M. C. Scharber
Frontiers in Materials Vol. 3 Article 39 (2016)
13. **Performance Boost of Organic Light-Emitting Diodes with Plasmonic Nanostars**
B. Munkhbat, H. Pöhl, P. Denk, T. A. Klar, M. Scharber, C. Hrelescu
Advanced Optical Materials, 4 (2016), 772
14. **Rashba semiconductor as spin Hall material: Experimental demonstration of spin pumping in wurtzite n-GaN:Si**
R. Adhikari, M. Matzer, A. Tarazaga Martin-Luengo, M. C. Scharber, A. Bonanni
Physical Review B 94 (2016), 085205-1

15. **Systematic Investigation of Porphyrin-Thiophene Conjugates for Ternary Bulk Heterojunction Solar Cells**
W. Keawsongsaeng, J. Gasiorowski, P. Denk, K. Oppelt, D. H. Apaydin, R. Rojanathanes, K. Hingerl, M. Scharber, N. S. Sariciftci, P. Thamyongkit
Advanced Energy Materials (2016), 1600957
16. **Influence of molecular designs on polaronic and vibrational transitions in a conjugated push-pull copolymer**
C. Cobet, J. Gasiorowski, R. Menon, K. Hingerl, S. Schlager, M. S. White, H. Neugebauer, N. S. Sariciftci, P. Stadler
Scientific Reports 6, (2016), 35096
17. **Colloids of polypyrrole nanotubes/nanorods: A promising conducting ink**
Y. Li, P. Bober, D. H. Apaydin, T. Syrovy, N. S. Sariciftci, J. Hromadkova, I. Sapurina, M. Trchova, J. Stejskal
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18. **Local order drives the metallic state in PEDOT:PSS**
P. Stadler, D. Farka, H. Coskun, E. D. Glowacki, C. Yumusak, L. M. Uiberlacker, S. Hild, L. N. Leonat, M. C. Scharber, P. Klapetek, R. Menon, N. S. Sariciftci
Journal of Materials Chemistry C 4 (2016), 6982
19. **Thermal layer-by-layer preparation of oriented films of a Cu(I) ionic inorganic–organic hybrid material showing semiconducting and SHG properties**
D. Marinotto, S. G. Danelli, A. Giaretta, E. Lucenti, P. Stadler, E. Tordin, G. Mattei, G. Scavia, R. Ugo, E. Cariati
Journal of Materials Chemistry C 4 (2016), 7077
20. **Bio-Electrocatalytic Application of Microorganisms for Carbon Dioxide Reduction to Methane**
S. Schlager, M. Haberbauer, A. Fuchsbauer, C. Hemmelmair, L. M. Dumitru, G. Hinterberger, H. Neugebauer, N. S. Sariciftci
ChemSusChem 9 (2016)
21. **Spectroscopic characterization of charge carriers of the organic semiconductor quinacridone compared with pentacene during redox reactions**
S. Enengl, C. Enengl, S. Pluczyk, E. D. Glowacki, M. Lapkowski, E. Ehrenfreund, H. Neugebauer, N. S. Sariciftci
Journal of Materials Chemistry C 4 (2016), 10265

22. **Improvement of Catalytic Activity by Nano fibrous CuInS₂ for Electrochemical CO₂ Reduction**
A. Aljabour, D. H. Apaydin, H. Coskun, F. Ozel, M. Ersoz, P. Stadler, N. S. Sariciftci, M. Kus
Applied Materials & Interfaces 8 (2016), 31695
23. **Synthesis and Investigation of N,N'-benzylated Epindolidione Derivatives as Organic Semiconductors**
E. Miglbauer, N. Demitri, M. Himmelsbach, U. Monkowius, N. S. Sariciftci, E. D. Głowacki, K. T. Oppelt
Chemistry Select 1 (2016), 6349
24. **Biocatalytic and Bio-electrocatalytic Approaches for the Reduction of CO₂ Using Enzymes**
S. Schlager, A. Dibenedetto, M. Aresta, D. Hazar Apaydin, L. M. Dumitru, H. Neugebauer, N. S. Sariciftci
Energy Technology (2016)
25. **Biocompatible Integration of Electronics into Food Sensor**
L. M. Dumitru, M. Irimia-Vladu, N.S. Sariciftci
Comprehensive Analytical Chemistry, Chapter 8, Volume 74, (2016), 247
Biosensors for Sustainable Food - New Opportunities and Technical Challenges
Edited by Viviana Scognamiglio, Giuseppina Rea, Fabiana Arduini and Giuseppe Palleschi
26. **Effect of alkoxy side chains on intra and interchain exciton coupling in PPE-PPV copolymers solution**
M. Guesmi, A. Ben Fredj, S. Romdhane, N. Bouguerra, D.A.M. Egbe, R.W. Lang, M. Havlicek, N.S. Sariciftci, H. Bouchriha
Synthetic Metals 224 (2017), 72
27. **Low and high molecular mass dithienopyrrole-naphthalene bisimide donor-acceptor compounds: synthesis, electrochemical and spectroelectrochemical behaviour**
R. Rybakiewicz, E. D. Glowacki, L. Skorka, S. Pluczyk, P. Zassowski, D. H. Apaydin, M. Lapkowski, M. Zagorska, A. Pron
Chemistry - A European Journal (2017)

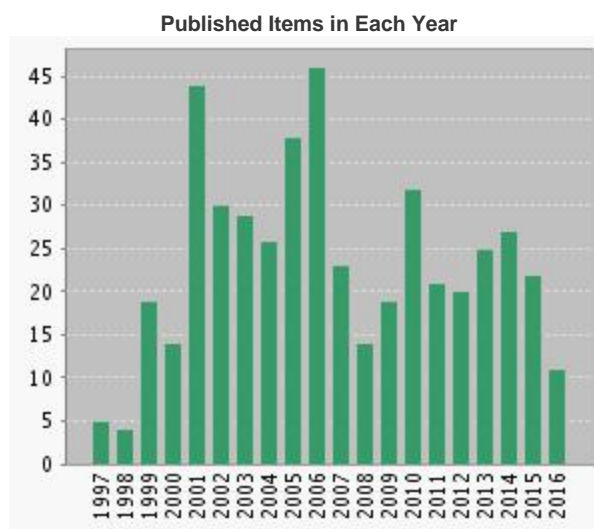
28. **Polymers with Alternating Anthracene and Phenylene Building Blocks Linked by Ethynylene and/or Vinylene Units: Studying Structure-Properties-Relationships**
 S. Boudiba, A. Růžička, C. Ulbricht, S. Enengl, C. Enengl, J. Gasiorowski, C. Yumusak, V. Pokorná, D. Výprachtický, K. Hingerl, D.R.T. Zahn, F. Tinti, N. Camaioni, S. Bouguessa, A. Gouasmia, V. Cimrová, D.A.M. Egbe
 Journal of Polymer Science, Part A: Polymer Chemistry 55 (2017), 129
29. **Explaining the Behavior of the Cyclic Voltammogram upon Oxidation of a Poly(1,4-phenyleneethynylene)-alt-poly(1,4-phenylene-vinylene) Copolymer using Spectroscopic Techniques**
 C. Enengl, S. Enengl, N. Bouguerra, M. Havlicek, H. Neugebauer, D.A.M. Egbe
 ChemPhysChem 18 (2017), 93

Patente

1. Optoelektronischer Infrarotsensor

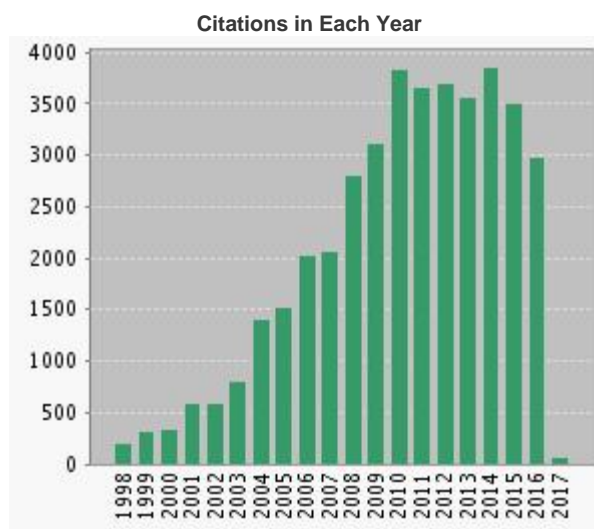
V. Derek, E. D. Glowacki, M. Ivanda, N. S. Sariciftci, Patent Application: A50534/2014

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