

## II PUBLICATIONS

### Veröffentlichungen

- 1 **High temperature-stability of organic thin-film transistors based on quinacridone pigments**  
Y. Kanbur, H. Coskun, E. D. Glowacki, M. Irimia-Vladu, N. S. Sariciftci, C. Yumusak  
Organic Electronics 66 (2019), 53
- 2 **Stable Hall voltages in presence of dynamic quasi-continuum bands in poly(3,4-ethylene-dioxythiophene)**  
P. Stadler, L. N. Leonat, R. Menon, H. Coskun, S. van Frank, C. Rankl, M. C. Scharber  
Organic Electronics 65 (2019), 412
- 3 **Enhanced bio-electrochemical reduction of carbon dioxide using neutral red as redox mediator**  
H. Seelajaroen, M. Haberbauer, C. Hemmelmair, Abdalaziz Aljabour, L. M. Dumitru, A. W. Hassel, N. S. Sariciftci  
ChemBioChem 20 (2019), 1196
- 4 **Synthesis of quinoxaline-based polymers with multiple electron-withdrawing groups for polymer solar cells**  
S. L. Handoko, H. C. Jin, D. R. Whang, S. K. Putri, J. H. Kim, D. W. Chang  
Journal of Industrial and Engineering Chemistry 73 (2019), 192
- 5 **Enhanced open-circuit voltages of trifluoromethylated quinoxaline-based polymer solar cells**  
S. K. Putri, H. C. Jin, D. R. Whang, J. H. Kim, D. W. Chang  
Organic Electronics 65 (2019), 363
- 6 **Persistent radical anions in the series of peri-arylenes: broadband light absorption until far in the NIR and purely organic magnetism**  
H. Langhals, U. Ritter-Faizade, P. Stadler, M. Havlicek, A. Hofer, N. S. Sariciftci  
Monatshefte für Chemie - Chemical Monthly 150 (2019), 885
- 7 **Optoelectronic Properties of Layered Perovskite Solar Cells**  
B. Hailegnaw, S. Paek, K. T. Cho, Y. Lee, F. Ongül, M. K. Nazeeruddin, M. C. Scharber  
Solar RRL (2019) DOI: 10.1002/solr.201900126

- 8 **Proteinogenic Amino Acid Assisted Preparation of Highly Luminescent Hybrid Perovskite Nanoparticles**  
A. J. Prochazkova, S. Demchyshyn, C. Yumusak, J. Másilko, O. Brüggemann, M. Weiter, M. Kaltenbrunner, N. S. Sariciftci, J. Krajcovic, Y. Salinas, A. Kovalenko  
ACS Applied Nano Materials 2 (2019), 4267
- 9 **Low-cost dye-sensitized solar cells with ball-milled tellurium-doped graphene as counter electrodes and a natural sensitizer dye**  
A. Hai Alami, K. Aokal, D. Zhang, A. Taieb, M. Faraj, A. Alhammadi, J. Mohammed Ashraf, B. Soudan, J. E. Hajjar, M. Irimia-Vladu  
International Journal of Energy Research 43 (2019), 5824
- 10 **Reverse Micelle Templating Route to Ordered Monodispersed Spherical Organo-Lead Halide Perovskite Nanoparticles for Light Emission**  
L. S. Hui, C. Beswick, A. Getachew, H. Heilbrunner, K. Liang, G. Hanta, R. Arbi, M. Munir, H. Dawood, N. Isik Goktas, R. LaPierre, M. C. Scharber, N. S. Sariciftci, A. Turak  
Applied Nano Materials 2 (2019), 4121
- 11 **Beyond artificial photosynthesis: general discussion**  
R. Abe, M. Bajada, M. Beller, A. B. Bocarsly, J. N. Butt, F. Cassiola, W. Domcke, J. R. Durrant, S. Gavrielides, M. Grätzel, L. Hammarström, M. C. Hatzell, B. König, A. Kudo, M. F. Kuehnel, A. Lage, C.-Y. Lee, M. Maneiro, S. D. Minteer, A. R. Paris, N. Plumere, J. N. H. Reek, E. Reisner, S. Roy, C. Schnedermann, R. Shankar, S. I. Shylin, W. A. Smith, H. Sen Soo, A. Wagner, D. Wielend  
Faraday Discussions 215 (2019), 422
- 12 **Biological approaches to artificial photosynthesis: general discussion**  
V. Badiani, M. Bajada, M. Beller, A. B. Bocarsly, S. Bonnet, C. Bozal-Ginesta, P. Brueggeller, J. N. Butt, F. Cassiola, M. Grätzel, L. Hammarström, M. C. Hatzell, L. J. C. Jeuken, B. König, M. F. Kuehnel, J. Lawrence, C.-Y. Lee, M. Maneiro, S. D. Minteer, E. Edwardes Moore, S. E. H. Piper, N. Plumere, J. N. H. Reek, E. Reisner, S. Roy, J. Shears, S. I. Shylin, H. S. Soo, A. Wagner, D. Wielend, J. Zhang, M. Zwijnenburg  
Faraday Discussions 215 (2019), 66

- 13 **Synthetic approaches to artificial photosynthesis: general discussion**  
C. M. Aitchison, V. Andrei, D. Anton-Garcia, U.-P. Apfel, V. Badiani, M. Beller, A. B. Bocarsly, S. Bonnet, P. Brueggeller, C. A. Caputo, F. Cassiola, S. T. Clausing, A. I. Cooper, C. E. Creissen, V. A. de la Pena O'Shea, W. Domcke, J. R. Durrant, M. Grätzel, L. Hammarström, A. Hankin, M. C. Hatzell, F. Karadas, B. König, M. F. Kuehnel, S. Lamaison, C.-Y. Lin, M. Maneiro, S. D. Minter, A. R. Paris, E. Pastor, C. Pornrungroj, J. N. H. Reek, E. Reisner, S. Roy, C. Sahm, R. Shankar, W. J. Shaw, S. I. Shylin, W. A. Smith, K. Sokol, H. Sen Soo, R. S. Sprick, W. Viertel, A. Vogel, A. Wagner, D. Wakerley, Q. Wang, D. Wielend, M. A. Zwijnenburg  
Faraday Discussions 215 (2019), 242
- 14 **Demonstrator devices for artificial photosynthesis: general discussion**  
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- 15 **Indigoidine – Biosynthesized organic semiconductor**  
C. Yumusak, A. J. Prochazkova, D. H. Apaydin, H. Seelajaroen, N. S. Sariciftci, M. Weiter, J. Krajcovic, Y. Qin, W. Zhang, J. Zhan, A. Kovalenko  
Dyes and Pigments 171 (2019), 107768
- 16 **Improving the Performance of Perovskite Solar Cells using a Polyphosphazene Interfacing Layer**  
B. Hailegnaw, V. Poscher, C. Ulbricht, H. Seelajaroen, I. Teasdale, Y. Salinas, N. S. Sariciftci, M. C. Scharber  
Physica Status Solidi A Vol 216, No 20 (2019), 1900436
- 17 **Cyclic Peptide Stabilized Lead Halide Perovskite Nanoparticles**  
A. J. Prochazkova, Y. Salinas, C. Yumusak, O. Brüggemann, M. Weiter, N. S. Sariciftci, J. Krajcovic, A. Kovalenko  
nature research Scientific Reports 9 (2019), 12966

- 18 **Acetylacetone Improves the Performance of Mixed Halide Perovskite Solar Cells**  
B. Hailegnaw, G. Adam, D. Wielend, J. D. Pedarnig, N. S. Sariciftci, M. C. Scharber  
The Journal of Physical Chemistry C 123 (2019), 23807
- 19 **Stability of Selected Hydrogen Bonded Semiconductors in Organic Electronic Devices**  
M. Irimia-Vladu, Y. Kanbur, F. Camaioni, M. Elisabetta Coppola, C. Yumusak, C. Vlad Irimia, A. Vlad, A. Operamolla, G. M. Farinola, G. P. Suranna, N. González-Benitez, M. Carmen Molina, L. Fernando Bautista, H. Langhals, B. Stadlober, E. D. GLowacki, N. S. Sariciftci  
Chemistry of Materials 31 (2019), 6315
- 20 **Cofunction of Protons as Dopant and Reactant Activate the Electrocatalytic Hydrogen Evolution in Emeraldine Polyguanine**  
H. Coskun, A. Aljabour, W. Schöfberger, A. Hinterreiter, D. Stifter, N. S. Sariciftci, P. Stadler  
Advanced Materials Interfaces (2019), DOI: 10.1002/admi.201901364
- 21 **Defining side chain successions in anthracene-based poly(arylene ethynylene)alt-poly(phenylene vinylene)s: probing structure–property relationships**  
C. Ulbricht, N. Bouguerra, S. Inack Ngi, O. Brüggemann, D. A. M. Egbe  
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- 22 **Effects of pyridine and pyrrole moieties on supercapacitive properties of imine-rich nitrogen-doped graphene**  
M. S. Lee, D. R. Whang, Y. H. Song, J. T. Kim, M. H. Yang, U H. Choi, D. W. Chang  
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- 23 **Synthesis of Quinoxaline-Based Small Molecules Possessing Multiple Electron-Withdrawing Moieties for Photovoltaic Applications**  
J. T. Kim, H. C. Jin, S. K. Putri, D. R. Whang, J. H. Kim, D. W. Chang  
Macromolecular Research 27 (12) (2019), 1268
- 24 **Conducting Polymer-Based Biocomposites Using Deoxyribonucleic Acid (DNA) as Counterion**  
S. Tekoglu, D. Wielend, M. C. Scharber, N. S. Sariciftci, C. Yumusak  
Advanced Materials Technologies (2019), DOI: 10.1002/admt.201900699

- 25 **Molecular cobalt corrole complex for the heterogeneous electrocatalytic reduction of carbon dioxide**  
S. Gonglach, S. Paul, M. Haas, F. Pillwein, S. S. Sreejith, S. Barman, R. De, S. Müllegger, P. Gerschel, U.-P. Apfel, H. Coskun, A. Aljabour, P. Stadler, W. Schöfberger, S. Roy  
Nature Communications (2019), doi.org/10.1038/s41467-019-11868-5
- 26 **Localizing Binding Sites on Bioconjugated Hydrogen-Bonded Organic Semiconductors at the Nanoscale**  
M. Koehler, D. Farka, C. Yumusak, N. S. Sariciftci, P. Hinterdorfer  
ChemPhysChem <https://onlinelibrary.wiley.com/doi/abs/10.1002/cphc.201901064>
- 27 **Isotropic metallic transport in conducting polymers**  
Philipp Stadler  
Synthetic Metals 254 (2019), 106
- 28 **Mesoporous Silica Micromotors with a Reversible Temperature Regulated On–Off Polyphosphazene Switch**  
M. Kneidinger, A. Iturmendi, C. Ulbricht, T. Truglas, H. Groiss, I. Teasdale, Y. Salinas  
Macromolecular Rapid Communications 40 (2019), 1900328
- 29 **Active Sulfur Sites in Semimetallic Titanium Disulfide Enable CO<sub>2</sub> Electroreduction**  
A. Aljabour, H. Coskun, X. Zheng, M. G. Kibria, M. Strobel, S. Hild, M. Kehrer, D. Stifter, E. H. Sargent, P. Stadler  
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- 30 **Immobilized Enzymes on Graphene as Nanobiocatalyst**  
H. Seelajaroen, A. Bakandritsos, M. Otyepka, R. Zbořil, N. S. Sariciftci  
ACS Applied Materials & Interfaces 12 (2020), 250
- 31 **High Efficiency Doping of Conjugated Polymer for Investigation of Intercorrelation of Thermoelectric Effects with Electrical and Morphological Properties**  
S. E. Yoon, Y. Kang, S. Y. Noh, J. Park, S. Y. Lee, J. Park, D. W. Lee, D. R. Whang, T. Kim, G.-H. Kim, H. Seo, B.-G. Kim, J. H. Kim  
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- 32 **A method for sorting of plastics with an apparatus specific quantum efficiency approach**  
M. Wohlschläger, M. Versen, H. Langhals  
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[ieeexplore.ieee.org/document/8706034](http://ieeexplore.ieee.org/document/8706034)
- 33 **A sustainable preparation of functional perylenophanes by domino metathesis**  
H. Langhals, M. Rauscher, P. Mayer  
Green and Sustainable Chem. 9 (2019), 38  
[https://file.scirp.org/pdf/GSC\\_2019053013453053.pdf](https://file.scirp.org/pdf/GSC_2019053013453053.pdf)
- 34 **Light-driven molecular dynamics in perylenes with medium-controlled emission**  
H. Langhals, R. Greiner, T. Schlücker, A. Jakowetz,  
J. Org. Chem. 84 (2019), 5425 <https://pubs.acs.org/doi/abs/10.1021/acs.joc.9b00409>

#### Patente

Österreichisches Patentamt (Austrian Patent Office) – Application no. A50421/2019	Verfahren zur reversiblen Elektrosorption von Wasserstoff P. Stadler, H. Coskun-Aljabour, A. Aljabour
Österreichisches Patentamt (Austrian Patent Office) Patent no. AT 520 548 B1	Elektrode zur elektrokatalytischen Wasserstoffentwicklungsreaktion P. Stadler, H. Coskun Aljabour

#### Citation Index of Author Sariciftci

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