

## II PUBLICATIONS

### Veröffentlichungen

- 1 **Near-infrared absorbing hydrogen-bonded dithioketopyrrolopyrrole (DTPP) n-type semiconductors**  
M. Kratochvil, M. Ciganek, C. Yumusak, H. Seelajaroen, I. Cisarova, J. Fabry, M. Vala, S. Lunak, M. Weiter, N. S. Sariciftci, J. Krajcovic  
Dyes and Pigments 197 (2022), 109884
  
- 2 **Wide-bandgap organic solar cells with a novel perylene-based non-fullerene acceptor enabling open-circuit voltages beyond 1.4 V**  
J. Hofinger, S. Weber, F. Mayr, A. Jodlbauer, M. Reinfelds, T. Rath, G. Trimmel, M. C. Scharber  
Journal of Materials Chemistry A 10 (2022), 2888
  
- 3 **Substrate and pH-dependent homogeneous electrocatalysis using riboflavin for oxygen reduction**  
E. Leeb, D. Wielend, C. Schimanofsky, N. S. Sariciftci  
Electrochemical Science Advances Vol 2, Issue 6 (2022), e2100211
  
- 4 **Ion-driven nanograin formation in early-stage degradation of tri-cation perovskite films**  
F. Richheimer, D. Toth, B. Hailegnaw, M. A. Baker, R. A. Dorey, F. Kienberger, F. A. Castro, M. Kaltenbrunner, M. C. Scharber, G. Gramse, S. Wood  
Nanoscale 14 (2022), 2605
  
- 5 **Phenylene-bridged perylene monoimides as acceptors for organic solar cells: A study on the structure–property relationship**  
B. Schweda, M. Reinfelds, J. Hofinger, G. Bäuml, T. Rath, P. Kaschnitz, R. C. Fischer, M. Flock, H. Amenitsch, M. C. Scharber, G. Trimmel  
Chemistry A - A European Journal Vol 28, Issue 23 (2022)
  
- 6 **Radiative recombination in bulk-heterojunction solar cells**  
F. Hackl, T. Fromherz, M. C. Scharber  
Israel Journal of Chemistry Vol 62, Issue 7-8 (2022)

- 7 **1,7-diazaperylene in organic field effect transistors**  
C. Yumusak, F. Mayr, D. Wielend, B. Kahraman, Y. Kanbur, H. Langhals, M. Irimia-Vladu  
Israel Journal of Chemistry Vol 62, Issue 7-8 (2022), e202100126
- 8 **Anthraquinone and its derivatives as sustainable materials for electrochemical applications – a joint experimental and theoretical investigation of the redox potential in solution**  
J. M. Gallmetzer, S. Kröll, D. Werner, D. Wielend, M. Irimia-Vladu, E. Portenkirchner, N. S. Sariciftci, T. S. Hofer  
PCCP Physical Chemistry Chemical Physics 24, Issue 26 (2022), 16207
- 9 **Lanthanide (Eu, Tb, La)-doped ZnO nanoparticles synthesized using whey as an eco-friendly chelating agent**  
C. Picasso, Y. Salinas, O. Brüggemann, M. Clark Scharber, N. S. Sariciftci, O. D. F. Cardozo, E. S. Rodrigues, M. S. Silva, A. Stingl, P. M. A. Farias  
nanomaterials 12 (2022), 2265
- 10 **Enhanced stokes shift and phase stability by cosynthesizing perovskite nanoparticles (MAPbI<sub>3</sub>/MAPbBr<sub>3</sub>) in a single solution**  
M. Munir, J. Tan, R. Arbi, P. Oliveira, E. Leeb, Y. Salinas, M. C. Scharber, N. S. Sariciftci, A. Turak  
Advanced Photonics Research Vol 3, Issue 11(2022), 2100372
- 11 **Pinaceae fir resins as natural dielectrics for low voltage operating, hysteresis-free organic field effect transistors**  
J. Ivić, A. Petritz, C. Vlad Irimia, B. Kahraman, Y. Kanbur, M. Bednorz, C. Yumusak, M. Awais Aslam, A. Matković, K. Saller, C. Schwarzinger, W. Schühly, A. I. Smeds, Y. Salinas, M. Schiek, F. Mayr, C. Xu, C. Teichert, M. Osiac, N. S. Sariciftci, B. Stadlober, M. Irimia-Vladu  
Advanced Sustainable Systems Vol 6, Issue 10 (2022)
- 12 **Glycol bearing perylene monoimide based non-fullerene acceptors with increased dielectric permittivity**  
P. Fürk, J. Hofinger, M. Reinfelds, T. Rath, H. Amenitsch, M. C. Scharber, G. Trimmel  
Monatshefte für Chemie - Chemical Monthly 2022

- 13 **In vitro cytotoxicity of D18 and Y6 as potential organic photovoltaic materials for retinal prostheses**  
A. Cetkovic, A. Bellapianta, M. Irimia-Vladu, J. Hofinger, C. Yumusak, A. Corna, M. C. Scharber, G. Zeck, N. S. Sariciftci, M. Bolz, A. Salti  
International Journal of Molecular Sciences 23 (2022), 8666
- 14 **Direct electrochemical CO<sub>2</sub> capture using substituted anthraquinones in homogeneous solutions: a joint experimental and theoretical study**  
C. Schimanofsky, D. Wielend, S. Kröll, S. Lerch, D. Werner, J. M. Gallmetzer, F. Mayr, H. Neugebauer, M. Irimia-Vladu, E. Portenkirchner, T. S. Hofer, N. S. Sariciftci  
The Journal of Physical Chemistry C 126, Issue 33(2022) 14138
- 15 **Charge transport kinetics in flower like  $\alpha$ -MnO<sub>2</sub> nano-sheet and  $\alpha$ -MnO<sub>2</sub> nanowire based supercapacitors**  
D. Kiyamaz, A. Kiyamaz, S. Tekoglu, F. Mayr, H. Dincalp, C. Zafer  
Thin Solid Films 762 (2022), 139535
- 16 **Kraft lignin: from pulping waste to bio-based dielectric polymer for organic field-effect transistors**  
R. D'Orsi, C. Vlad Irimia, J. J. Lucejko, B. Kahraman, Y. Kanbur, C. Yumusak, M. Bednorz, F. Babudri, M. Irimia-Vladu, A. Operamolla  
Advanced Sustainable Systems Vol 6, Issue 12 (2022)
- 17 **How to use a rotating ring-disc electrode (RRDE) subtraction method to investigate the electrocatalytic oxygen reduction reaction?**  
A. Kerschbaumer, D. Wielend, E. Leeb, C. Schimanofsky, N. Kleinbruckner, H. Neugebauer, M. Irimia-Vladu, N. S. Sariciftci  
Catalysis Science & Technology (2022)
- 18 **Elucidating the origins of high preferential crystal orientation in quasi-2D perovskite solar cells**  
L. E. Lehner, S. Demchyshyn, K. Frank, A. Minenkov, D. J. Kubicki, H. Sun, B. Hailegnaw, C. Putz, F. Mayr, M. Cobet, G. Hesser, W. Schöfberger, N. S. Sariciftci, M. C. Scharber, B. Nickel, M. Kaltenbrunner  
Advanced Materials (2022)

- 19      **Spotlight on charge-transfer excitons in crystalline textured n-alkyl anilino squaraine thin films**  
F. Balzer, N. J. Hestand, J. Zablocki, G. Schnakenburg, A. Lützen, M. Schiek  
The Journal of Physical Chemistry C 126 (2022), 13802
- 20      **Structural disorder as the origin of optical properties and spectral dynamics in squaraine nano-aggregates**  
R. Bernhardt, M. Manrho, J. Zablocki, L. Rieland, A. Lützen, M. Schiek, K. Meerholz, J. Zhu, T. L. C. Jansen, J. Knoester, P. H. M. van Loosdrecht  
Journal of the American Chemical Society 144 (2022), 19372
- 21      **Transient absorption microscopy setup with multi-ten-kilohertz shot-to-shot subtraction and discrete Fourier analysis**  
R. Schwarzl, P. Heim, M. Schiek, D. Grimaldi, A. Hohenau, J. R. Krenn, M. Koch  
Optics Express Vol 30, No 19 (2022) 34385
- 22      **Template and temperature-controlled polymorph formation in squaraine thin films**  
F. Balzer, T. Breuer, G. Witte, M. Schiek  
Langmuir 38 (2022), 9266
- 23      **Dependence of the Fluorescent Lifetime  $\tau$  on the Concentration at High Dilution**  
H. Langhals, T. Schlücker  
J. Phys. Chem. Lett. 13 (2022) 7568–7573
24.      **Vibronic Intramolecular Resonant Energy Transfer along More than 5 nm: Synthesis of Dyads for a Re-Examination of the Distance Function of FRET**  
H. Langhals, C. Dietl  
J. Org. Chem. 87 (2022) 9454-9465

### Citation Index of Author Sariciftci

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Sum of Times Cited without self-citations		56990
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h-index	125	104