

II PUBLICATIONS

Veröffentlichungen

- 1 **Tunable properties of nature-inspired N,N'-alkylated riboflavin semiconductors**
J. Richtar, L. Ivanova, D. Whang, C. Yumusak, D. Wielend, M. Weiter, M. C. Scharber,
A. Kovalenko, N. S. Sariciftci, J. Krajcovic
Molecules, 26, 27 (2021)
- 2 **Reversible speed regulation of self-propelled Janus micromotors via thermoresponsive bottle-brush polymers**
C. Fiedler, C. Ulbricht, T. Truglas, D. Wielend, M. Bednorz, H. Groiss, O. Brüggemann, I. Teasdale,
Y. Salinas
Chemistry - A European Journal, 27 (2021), 3262
- 3 **Low band gap conjugated semiconducting polymers**
M. C. Scharber, N. S. Sariciftci
Advanced Materials Technologies, (2021), 2000857
- 4 **High-performance Co^{II}-phthalocyanine-based polymer for practical heterogeneous electrochemical reduction of carbon dioxide**
J. Luangchaiyaporn, D. Wielend, D. Solonenko, H. Seelajaroen, J. Gasiorowski, M. Monecke,
G. Salvan, D. R.T. Zahn, N. S. Sariciftci, P. Thamyongkit
Electrochimica Acta 367 (2021), 137506
- 5 **Analysis of the ordering effects in anthraquinone thin films and its potential application for sodium ion batteries**
D. Werner, D. H. Apaydin, D. Wielend, K. Geistlinger, W. D. Saputri, U. J. Griesser, E. Drazevic, T.
S. Hofer, E. Portenkirchner
The Journal of Physical Chemistry C, 125 (2021) 3745
- 6 **Revealing the electrocatalytic behaviour by a novel rotating ring-disc electrode (RRDE) subtraction method: a case-study on oxygen reduction using anthraquinone sulfonate**
D. Wielend, H. Neugebauer, N.S. Sariciftci
Electrochemistry Communication Vol. 125 (2021) 106988

- 7 **Single-component organic solar cells based on intramolecular charge transfer photoabsorption**
K.-i. Nakayama, T. Okura, Y. Okuda, J. Matsui, A. Masuhara, T. Yoshida, M. S. White, C. Yumusak, P. Stadler, M. Scharber, N. S. Sariciftci
MDPI Materials 14 (5), (2021) 1200
- 8 **Gallium(III) corrole complexes as near-infrared emitter – synthesis, computational and photophysical study**
M. Haas, D. Krisch, S. Gonglach, M. Bechmann, M. C. Scharber, M. Ertl, U. Monkowius, W. Schöfberger
European Journal of Organic Chemistry (2021), 1525
- 9 **True nature of the transition-metal carbide/liquid interface determines its reactivity**
C. Griesser, H. Li, E.-M. Wernig, D. Winkler, N. Shakibi Nia, T. Mairegger, T. Götsch, T. Schachinger, A. Steiger-Thirsfeld, S. Penner, D. Wielend, D. Egger, C. Scheurer, K. Reuter, J. Kunze-Liebhäuser
ACS Catalysis 11 (2021), 4920
- 10 **Understanding the low voltage losses in high-performance non-fullerene acceptor-based organic solar cells**
J. Hofinger, C. Putz, F. Mayr, K. Gugujonovic, D. Wielend, M. C. Scharber
Materials Advances 2 (2021), 4291
- 11 **Overcoming intra-molecular repulsions in PEDTT by sulphate counter-ion**
D. Farka, T. Greunz, C. Yumusak, C. Cobet, C.C. Mardare, D. Stifter, A.W. Hassel, M.C. Scharber, N.S. Sariciftci
Science and Technology of Advanced Materials, Vol 22, No 1 (2021), 985
- 12 **Emerging technologies: general discussion**
A. Bardow, C. Bizzarri, X. E. Cao, A. J. Cowan, C. Cummings, V. Del Angel Hernandez, H. Doan, G. Dowson, S. Ghosh, V. Gil, K. Gugujonovic, A. R. Kamali, M. König, W. Leitner, J. Luo, D. Madhav, M. Maneiro, H. Manyar, S. McCord, E. Moore, M. North, D. Pant, S. Perry, J. Poon, L. Rossi, J. R. Esquiús, M. Schreiber, M. Shoji, V. Sick, P. Styring, W. Tanveer, O. Thomas, K. Whiston, E. Yu
Faraday Discussion, 230 (2021), 388
- 13 **FRET in orthogonal, increasingly strain-rigidified systems**

H. Langhals, C. Dietl, P. Mayer
Israel Journal of Chemistry 61 (2021), in press

14 **Size-tunable and stable cesium lead-bromide perovskite nanocubes with near-unity photoluminescence quantum yield**

R. Grisorio, D. Conelli, E. Fanizza, M. Striccoli, D. Altamura, C. Giannini, I. Allegretta, R. Terzano, M. Irimia-Vladu, N. Margiotta, G. P. Suranna
Nanoscale Advances 3 (2021), 3918

15 **Balancing from FRET to SET and further to photochemistry**

H. Langhals, C. Dietl, S. Wiedbrauk
Israel Journal of Chemistry 61 (2021), in press

16 **Adamantane substitution effects on crystallization and electrooptical properties of epindolidione and quinacridone dyes**

J. Richtar, M. Ciganek, A. Jancik Prochazkova, A. Kovalenko, H. Seelajaroen, M. Kratochvíl, M. Weiter, C. Yumusak, N. S. Sariciftci, V. Lukešc, J. Krajcovic
ChemPhotoChem 5 (2021), 1059

17 **Photoconductivity of micrometer long organic single crystal fiber array prepared by evaporation-induced self-assembled method**

J. Matsui, K. Ebata, M. Takeda, K. Ngan Hua, H. Katagiri, K.-i. Nakayama, A. Masuhara, C. Yumusak, P. Stadler, M. C. Scharber, M. S. White, N. S. Sariciftci, T. Yoshida, M. Furis
Israel Journal of Chemistry 61 (2021), in press

18 **Benzoporphyrin-based nanocomposites for photoelectrochemical O₂ reduction**

W. Keawsongsaeng, H. Seelajareon, S. Namuangruk, C. Chitpakdee, P. Chasing, V. Promarak, N. S. Sariciftci, P. Thamyongkit
Israel Journal of Chemistry 61 (2021), in press

- 19 **Immobilized poly(anthraquinones) for electrochemical energy storage applications: structure-property relations**
D. Wielend, Y. Salinas, F. Mayr, M. Bechmann, C. Yumusak, H. Neugebauer, O. Brüggemann, N. S. Sariciftci
ChemElectroChem 8 (2021), 4360
- 20 **P-type cobaltite oxide spinels enable efficient electrocatalytic oxygen evolution reaction**
D. Doppelbauer, A. Aljabour, H. Coskun, H. Sun, M. Gusenbauer, J. Lumetzberger, D. Primetzhofer, B. Faina, J. Duchoslav, M. Kehrler, D. Stifter, H. Groiss, V. Ney, A. Ney, P. Stadler
Materials Advances 2 (2021) 5494
- 21 **The Impact of Chiral Citronellyl-Functionalization on Indolenine and Anilino Squaraine Thin Films**
F. Balzer, M. F. Schumacher, S. Mattiello, M. Schulz, J. Zablocki, M. Schmidtman, K. Meerholz, N. S. Sariciftci, L. Beverina, A. Lützen, M. Schiek
Israel Journal of Chemistry 61 (2021), in press
- 22 **Determining the Dielectric Tensor of Microtextured Organic Thin Films by Imaging Mueller Matrix Ellipsometry**
S. Funke, M. Duwe, F. Balzer, P. H. Thiesen, K. Hingerl, M. Schiek
The Journal of Physical Chemistry Letters 12 (2021), 3053
- 23 **Optical Index Matching, Flexible Electrospun Substrates for Seamless Organic Photocapacitive Sensors**
T. Grothe, T. Böhm, K. Habashy, O. S. Abdullaeva, J. Zablocki, A. Lützen, K. Dedek, M. Schiek, A. Ehrmann
Physica Status Solidi B 258 (2021), 2000543
- 24 **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

- 25 **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 (2022)
- 26 **Substrate and pH-dependent homogeneous electrocatalysis using riboflavin for oxygen reduction**
E. Leeb, D. Wielend, C. Schimanofsky, N. S. Sariciftci
Electrochemical Science Advances (2022)
- 27 **Terminal terthiophenediones: Fast-decay fluorescent dyes and their efficient syntheses**
H. Langhals, T. Schlücker, F. Reiners, K. Karaghiosoff
ACS Omega 6 (2021), 24973
- 28 **The kinetics of SARS-Cov-2 infections analyzed by means of statistical methods on the basis of official data in germany**
H. Langhals
LOJ Phar. & Cli. Res. 2 (2021), 245
- 29 **Label-free identification and differentiation of different microplastics using phasor analysis of fluorescence lifetime imaging microscopy (FLIM)-generated data**
A. Monteleone, W. Schary, F. Wenzel, H. Langhals, D. Dietrich
Chemico-Biological Interactions 342 (2021), 109466
- 30 **New application for the identification and differentiation of microplastics based on fluorescence lifetime imaging microscopy (FLIM)**
A. Monteleone, F. Wenzel, H. Langhals, D. Dietrich
J. Environm. Chem. Engineering 2021, 9, 104769
- 31 **A three-step synthesis of 1,7-diazaperylene and derivatives**
H. Langhals, S. Reichherzer, P. Mayer, K. Polborn
Synthesis 53 (2021), 713

32 **Ion-driven nanograin formation in early-stage degradation of tri-cation perovskite films**

F. Richeimer, 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 (2022), in press

Patente

P. Stadler, H. Coskun-Aljabour, A. Aljabour, C. Ulbricht, H. Sun	Arbeitselektrode zur Direktreduktion von Carbonaten zu Kohlenwasserstoffen in einem wässrigen Carbonat-Elektrolyten Patent AT523650 15.10.2021
---	---

Citation Index of Author Sariciftci

	scholar.google.at	publons.com	Web of Science
Total Publications		620	637
Sum of the Times Cited	84357	55616	58085
Sum of Times Cited without self-citations			55319
Citing Articles			34209
Citing Articles without self-citations			33660
Average Citations per Item			91,19
h-index	122	100	102