

II PUBLICATIONS

Veröffentlichungen

- 1 Magnetic field effect in hydrogen-bonded semiconductor-based organic field-effect transistors**
D. Saadi, C. Yumusak, I. Zrinski, A. I. Mardare, S. Romdhane, N. S. Sariciftci, M. Irimia-Vladu, M. C. Scharber
Phys. Status Solidi A 220 (2023), 2200821, DOI: 10.1002/pssa.202200821
- 2 A bifunctional electrocatalyst for OER and ORR based on a cobalt(II) triazole pyridine bis-[cobalt(III) corrole] complex**
A. Aljabour, H. Awada, L. Song, H. Sun, S. Offenthaler, F. Yari, M. Bechmann, M. C. Scharber, W. Schöfberger
Angew. Chem. 135 (2023), e20230220, DOI: 10.1002/anie.202302208
- 3 Broadband photon harvesting in organic photovoltaic devices induced by large-area nanogrooved templates**
D. Chowdhury, S. A. Mohamed, G. Manzato, B. Siri, R. Chittofrati, M. C. Giordano, M. Hussein, M. F. O. Hameed, S. S. A. Obayya, P. Stadler, M. C. Scharber, G. Della Valle, F. B. de Mongeot
ACS Appl. Nano Mater. 2023, 6, 7, 6230–6240, DOI:10.1021/acsnm.3c00553
- 4 N,N'-substituted quinacridones for organic electronic devices applications**
D. Saadi, F. Mayr, C. Yumusak, D. Wielend, M. Cobet, B. Kahraman, C. Vlad Irimia, Y. Kanbur, M. Bednorz, K. Kotwica, A. Ben Fredj, S. Romdhane, M. C. Scharber, N. S. Sariciftci, M. Irimia-Vladu
Materials Advances (2023)
Mater. Adv. 4 (2023), 2214-2225, DOI: 10.1039/D2MA01010K
- 5 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 and Technology, Vol. 13, Issue 3, (2023) 834, doi.org/10.1039/D2CY01744J
- 6 Eco-friendly solvent-processed dithienosilicon-bridged carbazole-based small-molecule acceptors achieved over 25.7% PCE in ternary devices under indoor conditions**
M. R. Busireddy, S.-C. Huang, Y.-J. Su, Z.-Y. Lee, C.-H. Wang, M. C. Scharber, J.-T. Chen, C.-S. Hsu
ACS Appl. Mater. Interfaces 15 (2023), 20, 24658–24669, DOI: 10.1021/acsmi.3c02966

- 7 **An autonomous wearable biosensor powered by a perovskite solar cell**
J. Min, S. Demchyshyn, J. R. Sempionatto, Y. Song, B. Hailegnaw, C. Xu, Y. Yang, S. Solomon, C. Putz, L. E. Lehner, J. Felicitas Schwarz, C. Schwarzinger, M. C. Scharber, E. S. Sani, M. Kaltenbrunner, W. Gao
Nature Electronics 6 (2023), 630–641, DOI: 10.1038/s41928-023-00996-y
- 8 **c-PCBSD, a cross-linked fullerene derivative, as a cathodic interlayer in wide-band gap perovskite solar cells**
K. Gugujonović, F. Mayr, B. Hailegnaw, S. Pöllner, R. Zahrhuber, A. Planer, C.-H. Wang, C.-S. Hsu, M. C. Scharber
Monatshefte für Chemie - Chemistry Monthly (2023), doi.org/10.1007/s00706-023-03103-1
- 9 **Pinaceae pine resins (black pine, shore pine, rosin, and baltic amber) as natural dielectrics for low operating voltage, hysteresis-free, organic field effect transistors**
M. E. Coppola, A. Petritz, C. V. Irimia, C. Yumusak, F. Mayr, M. Bednorz, A. Matkovic, M. Awais Aslam, K. Saller, C. Schwarzinger, M. D. Ionita, M. Schiek, A. I. Smeds, Y. Salinas, O. Brüggemann, R. D’Orsi, M. Mattonai, E. Ribechini, A. Operamolla, C. Teichert, C. Xu, B. Stadlober, N. S. Sariciftci, M. Irimia-Vladu
Global Challenges (2023), 2300062, doi.org/10.1002/gch2.202300062
- 10 **Sensitive and high laser damage threshold substrates for surface-enhanced Raman scattering based on gold and silver nanoparticles**
F. Mayr, R. Zimmerleiter, P. M. A. Farias, M. Bednorz, Y. Salinas, A. Galembek, O. D. F. Cardozo, D. Wielend, D. Oliveira, R. Milani, T. M. Brito-Silva, M. Brandstetter, E. Padrón-Hernández, P. Burgholzer, A. Stingl, M. C. Scharber, N. S. Sariciftci
Anal. Sci. Adv. 4 (2023), 335–346, DOI: 10.1002/ansa.202300033
- 11 **Amplifying the dielectric constant of shellac by incorporating natural clays for organic field effect transistors (OFETs)**
S. Kim, Ç. Yumusak, C. V. Irimia, M. Bednorz, E. Yenel, M. Kus, N. S. Sariciftci, B. S. Shim, M. Irimia-Vladu
Turkish Journal of chemistry 47 (2023), 1169, doi.org/10.55730/1300-0527.3603
- 12 **The role of alpha-methylbenzyl ammonium iodide to reduce defect densities in perovskite devices**
B. Hailegnaw, F. Mayr, C. Putz, L. Lehner, K. Gugujonovic, S. Demchyshyn, M. Kaltenbrunner, M. C. Scharber
Sol. RRL 7 (2023), 2300316, DOI: 10.1002/solr.202300316
- 13 **Efficiency of emerging photovoltaic devices under indoor conditions**
M. C. Scharber

- 14 **A marvel of chiral squaraine aggregates: chiroptical spectra beyond the exciton model**
D. Giavazzi, M. F. Schumacher, L. Grisanti, M. Anzola, F. Di Maiolo, J. Zablocki, A. Lützen, M. Schiek, A. Painelli
Journal of Materials Chemistry C 11 (2023), 8307, doi.org/10.1039/D2TC05555D
- 15 **Polymerized riboflavin and anthraquinone derivatives for oxygen reduction reaction**
N. Kleinbruckner, E. Leeb, D. Wielend, C. Schimanofsky, M. Cobet, F. Mayr, A. Kerschbaumer, C. Yumusak, J. Richtar, M. C. Scharber, H. Neugebauer, M. Irimia-Vladu, J. Krajcovic, N. S. Sariciftci
Adv. Sustainable Syst. (2023), 2300352, DOI: 10.1002/adsu.202300352
- 16 **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
Monatsh. Chem. 154 (2023), 1369–1381 DOI: 10.1007/s00706-022-02956-2
- 17 **Reply to “comment on dependence of the fluorescent lifetime τ on the concentration at high dilution”: extended interpretation**
H. Langhals, T. Schlücker
Journal Physical Chemistry Letters 14 (2023), 1457, doi.org/10.1021/acs.jpcllett.3c00038
- 18 **Isolating pure donor and acceptor signals by polarization-controlled transient absorption spectroscopy**
Y. Xu, L. Mewes, E. Thyraug, V. Sláma, F. Šanda, H. Langhals, J. Hauer
Journal Physical Chemistry Letters 14 (2023), doi.org/10.1021/acs.jpcllett.3c01451
- 19 **How the concept of solvent polarity investigated with solvatochromic probes helps studying intermolecular interactions**
H. Langhals
Liquids 3 (2023), 481, doi.org/10.3390/liquids3040031
- 20 **hiPSCs-derived retinal organoids as a model system for organic retinal prosthesis**
A. Bellapianta, A. Cetkovic, M. Irimia-Vladu, M. C. Scharber, M. Bolz, A. Salti
Investigative Ophthalmology & Visual Science 64 (8), 3202
- 21 **In vitro cytotoxicity of organic semiconductors as potential photovoltaic materials for retinal prostheses**
A. Salti, A. Cetkovic; A. Bellapianta; M. Irimia-Vladu; M. C. Scharber; A. Corna, G. Zeck; M. Bolz

- 22 **3-Thiophenemalonic acid additive enhanced performance in perovskite solar cells**
S. Abicho, B. Hailegnaw, F. Mayr, M. Cobet, C. Yumusak, T. Abute Lelisho, T. Yohannes, M. Kaltenbrunner, N. S. Sariciftci, M. C. Scharber, G. A. Workneh
ACS Omega 9 (2024), 2674, doi.org/10.1021/acsomega.3c07592
- 23 **Nature-inspired photocatalytic hydrogen production with a flavin photosensitizer**
L. Ivanová, J. Truksa, D. R. Whang, N. S. Sariciftci, C. Yumusak, J. Krajcovic
ACS Omega (2024), doi.org/10.1021/acsomega.3c07458
- 24 **Industrial vat orange dyes for organic field effect transistors**
B. Kahraman, C. Yumusak, F. Mayr, D. Wielend, K. Kotwica, C. V. Irimia, E. Leeb, N. S. Sariciftci, M. Irima-Vladu
Journal of Materials Chemistry C, accepted DOI: 10.1039/d3tc03919f

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