

II PUBLICATIONS

Veröffentlichungen

- 1 Active sulfur sites in semimetallic titanium disulfide enable CO₂ electroreduction**
A. Aljabour, H. Coskun, X. Zheng, M. G. Kibria, M. Strobel, S. Hild, M. Kehrler, D. Stifter, E. H. Sargent, P. Stadler
ACS Catalysis 10 (2020), 66
- 2 Immobilized enzymes on graphene as nanobiocatalyst**
H. Seelajaroen, A. Bakandritsos, M. Otyepka, R. Zboril, N. S. Sariciftci
ACS Applied Materials & Interfaces 12 (2020), 250
- 3 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
Applied Materials & Interfaces 12 (2020), 1151
- 4 Microwave-assisted preparation of organo-lead halide perovskite single crystals**
J. Jancik, A. Jancik Prochazkova, M. C. Scharber, A. Kovalenko, J. Másilko, N. S. Sariciftci, M. Weiter, J. Krajcovic
Crystal Growth & Design 20 (2020), 1388
- 5 Peptide nucleic acid stabilized perovskite nanoparticles for nucleic acid sensing**
A. Jancik Prochazkova, S. Gaidies, C. Yumusak, O. Brüggemann, M. Weiter, N. S. Sariciftci, M. C. Scharber, K. Cepe, R. Zboril, J. Krajcovic, Y. Salinas, A. Kovalenko
Materials Today Chemistry 17 (2020), 100272
- 6 Metal-free hydrogen-bonded polymers mimic noble metal electrocatalysts**
H. Coskun, A. Aljabour, P. de Luna, H. Sun, N. Nishiumi, T. Yoshida, G. Koller, M. G. Ramsey, T. Greunz, D. Stifter, M. Strobel, S. Hild, A. W. Hassel, N. S. Sariciftci, E. H. Sargent, P. Stadler
Advanced Materials 32 (2020), 1902177

- 7 **Efficient heterogeneous catalysis by pendant metalloporphyrin-functionalized polythiophenes for the electrochemical reduction of carbon dioxide**
S. Watpathomsub, J. Luangchaiyaporn, N. S. Sariciftci, P. Thamyongkit
New Journal of Chemistry 44 (2020), 12486
- 8 **Enhanced methane producing microbial electrolysis cells for wastewater treatment using poly(neutral red) and chitosan modified electrodes**
H. Seelajaroen, S. Spiess, M. Haberbauer, M. M. Hassel, A. Aljabour, S. Thallner, G. M. Guebitz, N. S. Sariciftci
Sustainable Energy & Fuels 4 (2020), 4238
- 9 **Mechanically interlocked carbon nanotubes as a stable electrocatalytic platform for oxygen reduction**
D. Wielend, M. Vera-Hidalgo, H. Seelajaroen, N. S. Sariciftci, E. M. Pérez, D. R. Whang
Applied Materials & Interfaces 12 (2020), 32615
- 10 **Anti-Stokes photoluminescence study on a methylammonium lead bromide nanoparticle film**
A. Jancik Prochazkova, F. Mayr, K. Gugujonovic, B. Hailegnaw, J. Krajcovic, Y. Salinas, O. Brüggemann, N. S. Sariciftci, M. C. Scharber
Nanoscale 12 (2020), 16556
- 11 **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 7 (2020), 1901364
- 12 **Plasmon-assisted direction- and polarization sensitive organic thin-film detector**
M. J. Haslinger, D. Sivun, H. Pöhl, B. Munkhbat, M. Mühlberger, T. A. Klar, M. C. Scharber, C. Hrelescu
Nanomaterials 10 (2020) 1866

- 13 **Synthesis conditions influencing formation of MAPbBr₃ perovskite nanoparticles prepared by the ligand-assisted precipitation method**
A. Jancik Prochazkova, M. C. Scharber, C. Yumusak, J. Jancik, J. Masilko, O. Brüggemann, M. Weiter, N. S. Sariciftci, J. Krajcovic, Y. Salinas, A. Kovalenko
Scientific Reports 10 (2020), 15720
- 14 **Impedance spectroscopy of perovskite solar cells: studying the dynamics of charge carriers before and after continuous operation**
B. Hailegnaw, N. S. Sariciftci, M. C. Scharber
Physica Status Solidi A 217 (2020), 2000291
- 15 **Controlling quantum confinement in luminescent perovskite nanoparticles for optoelectronic devices by the addition of water**
A. Jancik Prochazkova, Y. Salinas, C. Yumusak, M. C. Scharber, O. Brüggemann, M. Weiter, N. S. Sariciftci, J. Krajcovic, A. Kovalenko
ACS Applied Nano Materials 3 (2020), 1242
- 16 **Are polyaniline and polypyrrole electrocatalysts for oxygen (O₂) reduction to hydrogen peroxide (H₂O₂)?**
H. Rabl, D. Wielend, S. Tekoglu, H. Seelajaroen, H. Neugebauer, N. Heitzmann, D. H. Apaydin, M. C. Scharber, N. S. Sariciftci
ACS Applied Energy Materials 3 (2020), 10611
- 17 **Universal transfer printing of micelle-templated nanoparticles using plasma-functionalized graphene**
L. S. Hui, M. Munir, A. Vuong, M. Hilke, V. Wong, G. Fanchini, M. C. Scharber, N. S. Sariciftci, A. Turak
Applied Materials & Interfaces 12 (2020), 46530
- 18 **Comparison of fluorene, silafluorene and carbazole as linkers in perylene monoimide based non-fullerene acceptors**
S. Weber, J. Hofinger, T. Rath, M. Reinfelds, D. Pfeifer, S. M. Borisov, P. Fürk, H. Amenitsch, M. C. Scharber, G. Trimmel
Materials Advances 1 (2020), 2095

- 19 **Purity of organic semiconductors as a key factor for the performance of organic electronic devices**
C. Yumusak, N. S. Sariciftci, M. Irimia-Vladu
Materials Chemistry Frontiers, 4 (2020), 3678
- 20 **CO₂ Recycling: the conversion of renewable energy into chemical fuels**
N.S. Sariciftci
AsiaChem Vol 1, Issue 1, (2020) 50
- 21 **Electrochemical hydrogen storage in amine-activated polydopamine**
H. Coskun, A. Aljabour, T. Greunz, M. Kehrler, D. Stifter, P. Stadler
Advanced Sustainable Systems (2020) 2000176
- 22 **Anionic exchange route to synthesize highly uniform, stable and luminescent MAPbBr nanoparticles**
M. Munir, R. Arbi, M. C. Scharber, Y. Salinas, N. S. Sariciftci, A. Turak
Conference Proceeding Optical Devices and Materials for Solar Energy and Solid-state Lighting, Advanced Photonics 2020 Review, (2020) 3418146
- 23 **Designing ultraflexible perovskite x-ray detectors through interface engineering**
S. Demchyshyn, M. Verdi, L. Basiricò, A. Ciavatti, B. Hailegnaw, D. Cavalcoli, M. C. Scharber, N. S. Sariciftci, M. Kaltenbrunner, B. Fraboni
Advanced Science 7 (2020), 2002586
- 24 **Perylentetracarboxylicdiimide (PTCDI) as diffusion-less electrode material for high rate organic Na-ion batteries**
S. Liebl, D. Werner, D. H. Apaydin, D. Wielend, K. Geistlinger, E. Portenkirchner
Chemistry - A European Journal, 26 (2020), 17559
- 25 **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 5 (2020), 190069

- 26 **Nanoscale charge accumulation and its effect on carrier dynamics in tri-cation perovskite structures**
D. Toth, B. Hailegnaw, F. Richeimer, F. A. Castro, F. Kienberger, M. C. Scharber, S. Wood, G. Gramse
Applied Materials & Interfaces 12 (2020), 48057
- 27 **FRET in dyads with orthogonal chromophores and minimal spectral overlap**
H. Langhals, A. Walter
J. Phys. Chem. A 124 (2020) 1554
- 28 **Fluorescence and fluorescent dyes**
H. Langhals
Phys. Sci. Revs. 5 (2020) 20190100; DOI: <https://doi.org/10.1515/psr-2019-0100>
- 29 **The quality control of alcoholic components of disinfectants by a simple color test**
H. Langhals
S. Afr. J. Chem. 73 (2020) 81
- 30 **OrthoFRET in diamantane FRET in orthogonal stiff dyads; diamond restriction for frozen vibrations**
H. Langhals, C. Dietl, J. Dahl, R. Carlson, Yaw-Terng Chern, P. Mayer
J. Org. Chem. 85 (2020) 11154
- 31 **A three-step synthesis of 1,7-diazaperylene and derivatives**
H. Langhals, S. Reichherzer, P. Mayer, K. Polborn
Synthesis 52 (2020) DOI: [10.1055/s-0040-1707293](https://doi.org/10.1055/s-0040-1707293)
- 32 **Anharmonic molecular motion drives resonance energy transfer in peri-arylene dyads**
V. Sláma, V. Perlík, H. Langhals, A. Walter, T. Mančal, J. Hauer, F. Šanda
Front. Chem. 8 (2020) 579166; DOI: <https://doi.org/10.3389/fchem.2020.579166>
- 33 **Structure and dielectric properties of anisotropic n-alkyl anilino squaraine**
J. Zablocki, M. Schulz, G. Schnakenburg, L. Beverina, P. Warzanowski, A. Revelli, M. Grüniger, F. Balzer, K. Meerholz, A. Lützen, M. Schiek
Thin Films. J. Phys. Chem. C 124 (2020) 22721

- 34 **Polymorphic chiral squaraine crystallites in textured thin films**
J. Zablocki, O. Arteaga, F. Balzer, D. Hertel, J.J. Holstein, G. Clever, J. Anhäuser, R. Puttreddy, K. Rissanen, K. Meerholz, A. Lützen, M. Schiek
Chirality 32 (2020) 619
- 35 **Nanoscale polarization-resolved surface photovoltage of a pleochroic squaraine thin film**
F. Balzer, O.S. Abdullaeva, A. Maderitsch, M. Schulz, A. Lützen, M. Schiek
Phys. Status Solidi B 257 (2020) 1900570
- 36 **Spectroscopic investigation of highly-scattering nanofiber mats during drying and film formation**
E. Kerker, D. Steinhäuser, A. Mamun, M. Trabelsi, J. Fiedler, L. Sabantina, I. Juhász Junger, M. Schiek
Optik 208 (2020) 164081
- 37 **Tunable properties of nature-inspired N,N'-alkylated riboflavin semiconductors**
J. Richtar, L. Ivanova, D. Ryeol Whang, C. Yumusak, D. Wielend, M. Weiter, M. C. Scharber, A. Kovalenko, N. S. Sariciftci, J. Krajcovic
Molecules, 26, 27 (2021)
- 38 **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), in press
- 39 **Low band gap conjugated semiconducting polymers**
M. C. Scharber, N. S. Sariciftci
Advanced Materials Technologies, (2021), 2000857
- 40 **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

Patente

P. Stadler, H. Coskun, A. Aljabour AT521788 A4 2020-07-15.	Verfahren zur reversiblen Elektrosorption von Wasserstoff
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Citation Index of Author Sariciftci

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Total Publications		620	623
Sum of the Times Cited	77208	54294	55584
Sum of Times Cited without self-citations			52894
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Citing Articles without self-citations			31892
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