

II PUBLICATIONS

Veröffentlichungen

- 1 **Artificial Photosynthesis: Learning from Nature**
D.R. Whang, D.H. Apaydin
ChemPhotoChem 2 (2018), 148

- 2 **Size control of CH₃NH₃PbBr₃ perovskite cuboid fine crystals synthesized by ligand-free reprecipitation method**
K. Umemoto, Y.-J. Pu, C. Yumusak, M.C. Scharber, M.S. White, N.S. Sariciftci, T. Yoshida, J. Matsui, H. Uji, A. Masuhara
Microsyst. Technol. 24 (2018), 619

- 3 **Chemical vapor deposition - based synthesis of conductive polydopamine thin-films**
H. Coskun, A. Aljabour, L. Uiberlacker, M. Strobel, S. Hild, C. Cobet, D. Farka, P. Stadler, N.S. Sariciftci
Thin Solid Films 645 (2018), 320

- 4 **The influence of perovskite precursor composition on the morphology and photovoltaic performance of mixed halide MAPbI₃-xCl_x solar cells**
S. Tombe, G. Adam, H. Heilbrunner, C. Yumusak, D. H. Apaydin, B. Hailegnaw, C. Ulbricht, C. J. Arendse, H. Langhals, E. Iwuohaa, N. S. Sariciftci, M. C. Scharber
Solar Energy 163 (2018), 215

- 5 **Nanofibrous cobalt oxide for electrocatalysis of CO₂ reduction to carbon monoxide and formate in an acetonitrile-water electrolyte solution**
A. Aljabour, H. Coskun, D.H. Apaydin, F. Ozel, A.W. Hassel, P. Stadler, N. S. Sariciftci, M. Kus
Applied Catalysis B: Environmental 229 (2018), 163

- 6 **Photoelectrocatalytic Synthesis of Hydrogen Peroxide by Molecular Copper-Porphyrin Supported on Titanium Dioxide Nanotubes**
D.H. Apaydin, H. Seelajaroen, O. Pengsakul, P. Thamyongkit, N.S. Sariciftci, J. Kunze-Liebhäuser, E. Portenkirchner
ChemCatChem 10 (2018), 1793

- 7 **Metallic conductivity beyond the Mott minimum in PEDOT: Sulphate at low temperatures**
D. Farka, O.F.J. Andrew, R. Menon, N.S. Sariciftci, P. Stadler
Synthetic Metals 240 (2018), 59
- 8 **Direct Electrical Neurostimulation with Organic Pigment Photocapacitors**
D. Rand, M. Jakešová, G. Lubin, I. Vebraite, M. David-Pur, V. Derek, T. Cramer, N. S. Sariciftci, Y. Hanein, E. D. Glowacki
Advanced Materials 30 (2018), 1707292
- 9 **An electron-reservoir Re(I) complex for enhanced efficiency for reduction of CO₂ to CO**
D. R. Whang, D. H. Apaydin, S. Y. Park, N. S. Sariciftci
Journal of Catalysis 363 (2018), 191
- 10 **Impact of Alkoxy Side Chains on Morphology and Excitonic Coupling in PPE-PPV Copolymer Thin Films**
M. Guesmia, A. Ben Fredja, S. Romdhane, N. Bouguerra, D. A. M. Egbe, R. W. Lange, M. Havlicek, H. Bouchriha
Journal of Luminescence 203 (2018), 447
- 11 **Degradation kinetics in different polymer–fullerene blends investigated by electron spin resonance**
M. Havlicek, N. S. Sariciftci, M. C. Scharber
Journal of Materials Research, Vol 33, No. 13 (2018), 1853
- 12 **Inverted (p–i–n) perovskite solar cells using a low temperature processed TiO_x interlayer**
B. Hailegnaw, G. Adam, H. Heilbrunner, D. H. Apaydin, C. Ulbricht, N. S. Sariciftci, M. C. Scharber
RSC Advances 8 (2018), 24836
- 13 **Anthraquinone thin-film electrodes for reversible CO₂ capture and release**
D. Wielend, D. H. Apaydin, N. S. Sariciftci
Journal of Materials Chemistry A 6 820189, 15095

- 14 **Novel Riboflavin-Inspired Conjugated Bio-Organic Semiconductors**
J. Richtar, P. Heinrichova, D. H. Apaydin, V. Schmiedova, C. Yumusak, A. Kovalenko, M. Weiter, N. S. Sariciftci, J. Krajcovic
Molecules 23 (2018), 2271
- 15 **Application of MIS-CELIV technique to measure hole mobility of hole-transport material for organic light-emitting diodes**
C. Katagiri, T. Yoshida, M. S. White, C. Yumusak, N. S. Sariciftci, Ken-ichi Nakayama
AIP Advances 8 (2018), 105001
- 16 **Synthesis and investigation of tetraphenyltetrabenzoporphyrins for electrocatalytic reduction of carbon dioxide**
D. Apaydin, E. Portenkirchner, P. Jintanalert, M. Straiss, J. Luangchaiyaporn, N.S. Sariciftci, P. Thamyongkit
Sustainable Energy & Fuels (2018), DOI: 10.1039/c8se00422f
- 17 **Ellipsometric Spectroelectrochemistry: An in Situ Insight in the Doping of Conjugated Polymers**
C. Cobet, K. Oppelt, K. Hingerl, H. Neugebauer, G. Knör, N. S. Sariciftci, J. Gasiorowski
The Journal of Physical Chemistry C 122 (2018), 24309
- 18 **Synthesis of Trifluoromethylated Quinoxaline-Based Polymers for Photovoltaic Applications**
S. K. Putri, Y. H. Kim, D. R. Whang, J. H. Kim, D. W. Chang
Macromolecular Rapid Communications 39 (2018), 1800260
- 19 **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 (2018), in press

- 20 **X-ray study of anisotropically shaped metal halide perovskite nanoparticles in tubular pores**
J. M. Roemer, S. Demchyshyn, A. Böhm, O. Gutowski, K. Frank, N. S. Sariciftci, M. Kaltenbrunner, B. Nickel
Applied Physics Letters 113 (2018), 251901
- 21 **High temperature-stability of organic thin-film transistors based on quinacridone pigments**
Y. Kanbur, H. Coskun, E. D. Głowacki, M. Irimia-Vladu, N. S. Sariciftci, C. Yumusak
Organic Electronics 66 (2019), 53
- 22 **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
- 23 **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 10.1002/cbic.201800784 in press
- 24 **Book Green Materials for Electronics**
Edited by M. Irimia-Vladu, E.D. Glowacki, N.S. Sariciftci, S. Bauer
Wiley-VCH, ISBN 978-3-527-33865-8

Patente

Österreichisches Patentamt (Austrian Patent Office) – Application no. A50249/2018 (application date 23/03/2018)	Verfahren zum elektrochemischen enzymatischen Umwandeln von Glycerol zu Dihydroxyazeton L.M. Dumitru, S. Schlager and N.S. Sariciftci
Österreichisches Patentamt (Austrian Patent Office) – Application no AT50368/2018	Elektrode zur elektrokatalytischen Wasserstoffentwicklungsreaktion P. Stadler, H. Coskun Aljabour

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