



OTTO VON GUERICKE
UNIVERSITÄT
MAGDEBURG

VST

FAKULTÄT FÜR VERFAHRENS-
UND SYSTEMTECHNIK

Publikationsbericht 2023

Institut für Chemie

INSTITUT FÜR CHEMIE

1. LEITUNG

Prof. Dr. rer nat. Julian Thiele (Institutsleitung)

Prof. Dr. rer. nat. Franziska Scheffler

Prof. Dr. rer. nat. habil. Helmut Weiß

Dr. rer. nat. Christian Hering-Junghans

Prof. Dr. rer. nat. Jan von Langermann

Prof. Dr. rer. biol. hum. Heike Walles

2. VERÖFFENTLICHUNGEN

BEGUTACHTETE ZEITSCHRIFTENAUFsätze

Akbas, Serap; Chen, Kaicheng; Hoffmann, Torsten; Scheffler, Franziska; Tsotsas, Evangelos

Investigation of Island Growth on fluidized particles coated by means of aerosol

Processes - Basel : MDPI, Bd. 11 (2023), Heft 1, Artikel 165, insges. 18 S.

[Imp.fact.: 3.5]

Belov, Feodor; Mildner, Andrea; Knaus, Tanja; Mutti, Francesco G.; Langermann und Erlencamp, Jan

Crystallization-based downstream processing of ω -transaminase- and amine dehydrogenase-catalyzed reactions

Reaction chemistry & engineering - Cambridge : Royal Society of Chemistry . - 2023, Heft 6, S. 1427-1439

Dammler, Kathleen; Sutygina, Alina; Scheffler, Franziska; Scheffler, Michael; Betke, Ulf

Increased microporosity in ceramic and metal foams - a novel processing combination

Advanced engineering materials - Weinheim : Wiley-VCH Verl. . - 2023, Artikel 2300799, insges. 9 S.

[Imp.fact.: 3.6]

Dieguez-Alonso, Alba; Vu-Han, Tu-Lien Eliane; Almuina-Villar, Hernán; Fuentes, Juan Jesús Rico;

Hilfert, Liane; Dernbecher, Andrea; Rosa, José María; Behrendt, Frank

Tailored production and application of biochar for tar removal

Fuel - New York, NY [u.a.]: Elsevier, Bd. 348 (2023), Artikel 128306

[Imp.fact.: 7.4]

Grigoryev, Evgeny; Liubimtsev, Nikolai; Neuendorf, Talika A.; Vigogne, Michelle; Thiele, Julian

Reversible assembly of conductive supragel building blocks by metallo-complexes

Macromolecular chemistry and physics - Weinheim : Wiley-VCH, Bd. 224 (2023), Heft 24, Artikel 2300275, insges. 9 S.

[Imp.fact.: 5.2]

Harmgarth, Nicole; Liebing, Phil; Lorenz, Volker; Engelhardt, Felix; Hilfert, Liane; Busse, Sabine; Goldhahn, Rüdiger; Edelmann, Frank T.

Synthesis and structural characterization of p-carboranyl amidine derivatives

Molecules - Basel : MDPI, Bd. 28 (2023), Heft 9, Artikel 3837, insges. 11 S.

[Imp.fact.: 4.6]

Hohlfeld, Benjamin F.; Steen, Dorika; Wieland, Gerhard D.; Achazi, Katharina; Kulak, Nora; Haag, Rainer; Wiehe, Arno

Bromo- and glycosyl-substituted BODIPYs for application in photodynamic therapy and imaging

Organic & biomolecular chemistry - Cambridge : Royal Society of Chemistry, Bd. 21 (2023), Heft 15, S. 3105-3120

[Imp.fact.: 3.2]

Hormann, Jan; Verbitsky, Olga; Zhou, Xiaoyu; Battistella, Beatrice; Meer, Margarete; Sarkar, Biprajit; Zhao, Cunyuan; Kulak, Nora

Experimental and computational investigation of heteroatom substitution in nucleolytic Cu(ii) cyclen complexes for balancing stability and redox activity

Dalton transactions - London : Soc., Bd. 52 (2023), Heft 10, S. 3176-3187

[Imp.fact.: 4.0]

Krüger, Marcus; Kopp, Sascha

Tumor models and drug targeting in vitro - where are we today? : Where do we go from here?

Cancers - Basel : MDPI, Bd. 15 (2023), Heft 6, Artikel 1768, insges. 5 S.

[Imp.fact.: 5.2]

Malikidogo, Kyangwi P.; Drommi, Marielle; Atrián-Blasco, Elena; Hormann, Jan; Kulak, Nora; Esmieu, Charlène; Hureau, Christelle

Ability of azathiacyclen ligands to stop Cu(A β)-Induced production of reactive oxygen species - [3N1S] is the right donor set

Chemistry - a European journal - Weinheim : Wiley-VCH, Bd. 29 (2023), Heft 14, Artikel e202203667, insges. 12 S.

[Imp.fact.: 4.3]

Melnik, Daniela; Cortés-Sánchez, José Luis; Sandt, Vivianne; Kahlert, Stefan; Kopp, Sascha; Grimm, Daniela; Krüger, Marcus

Dexamethasone selectively inhibits detachment of metastatic thyroid cancer cells during random positioning

Cancers - Basel : MDPI, Bd. 15 (2023), Heft 6, Artikel 1641, insges. 25 S.

[Imp.fact.: 5.2]

Neuburger, Jan Eric; Gazizova, Alina; Tiedemann, Sven; Langermann und Erlencamp, Jan

Chemoenzymatic synthesis of enantiopure amino alcohols from simple methyl ketones

European journal of organic chemistry - Weinheim : Wiley-VCH Verl., Bd. 26 (2023), Heft 34\$e202201471

[Imp.fact.: 2.8]

Neuburger, Jan Eric; Tiedemann, Sven; Michalik, Dirk; Langermann und Erlencamp, Jan

Rare earth element-based recovery concept for cofactors Containing phosphate groups from aqueous solutions

Chemical engineering & technology - Weinheim : Wiley-VCH Verl.-Ges., Bd. 46 (2023), Heft 4, S. 766-775

[Imp.fact.: 2.1]

Reuter, Christian; Hauf, Laura; Imdahl, Fabian; Sen, Rituparno; Vafadarnejad, Ehsan; Fey, Philipp; Finger, Tamara; Jones, Nicola G.; Walles, Heike; Barquist, Lars; Saliba, Antoine-Emmanuel; Groeber-Becker, Florian; Engstler, Markus

Vector-borne Trypanosoma brucei parasites develop in artificial human skin and persist as skin tissue forms

Nature Communications - [London]: Nature Publishing Group UK, Bd. 14 (2023), Artikel 7660, insges. 16 S.

[Imp.fact.: 16.6]

Skowaisa, Steffen; Haak, Edgar

Diaminocyclopentadienone ruthenium complex catalyzed alkylation of indoles and ketones with primary alcohols

European journal of organic chemistry - Weinheim : Wiley-VCH Verl. . - 2023, insges. 7 S.

[Imp.fact.: 2.8]

Terazzi, Constanza; Spannenberg, Anke; Langermann und Erlencamp, Jan; Werner, Thomas

Chemoenzymatic synthesis of chiral building blocks Based on the kinetic resolution of glycerol-derived cyclic carbonates

ChemCatChem - Weinheim : Wiley-VCH, Bd. 15 (2023), Heft 19\$e202300917

[Imp.fact.: 4.5]

Vigogne, Michelle; Neuendorf, Talika A.; Bernhardt, Ricardo; Thiele, Julian

Combining parallelized emulsion formation and sequential droplet splitting for large-scale polymer microgel production

Journal of polymer science - Hoboken, NJ : Wiley, Bd. 61 (2023), Heft 16, S. 1902-1911

[Imp.fact.: 5.4]

Wang, Sida; Liebing, Phil; Feneberg, Martin; Sroor, Farid M.; Engelhardt, Felix; Hilfert, Liane; Busse, Sabine; Kluth, Elias; Goldhahn, Rüdiger; Edelmann, Frank T.

Synthesis and structural characterization of divalent transition metal alkynylamidinate complexes

European journal of inorganic chemistry - Weinheim : Wiley-VCH, Bd. 26 (2023), Heft 14, Artikel e202300027
[Imp.fact.: 2.3]

Weigel, Niclas; Grigoryev, Evgeny; Fertala, Nicole; Thiele, Julian

Fabrication of thermoresponsive and multimaterial hydrogel sheets by spatially controlled aspiration and interconnection of microgel building blocks

Advanced Materials Technologies - Weinheim : Wiley, Bd. 8 (2023), Heft 23, Artikel 2300374, insges. 9 S.

Weigel, Niclas; Li, Yue; Thiele, Julian; Fery, Andreas

From microfluidics to hierarchical hydrogel materials

Current opinion in colloid & interface science - Amsterdam [u.a.]: Elsevier Science, Bd. 64 (2023), Artikel 101673, insges. 18 S.

[Imp.fact.: 8.9]

Weigel, Tobias; Christ, Bastian; Dembski, Sofia; Ewald, Andrea; Groneberg, Dieter; Hansmann, Jan; Luxenhofer, Robert; Metzger, Marco; Walles, Heike; Willy, Christian; Groeber-Becker, Florian; Probst, Jörn

Biomimetic connection of transcutaneous implants with skin

Advanced healthcare materials - Weinheim : Wiley-VCH, Bd. 12 (2023), Heft 30, Artikel 2301131, insges. 15 S.

[Imp.fact.: 15.5]

ABSTRACTS

Müller, Noah; Kopp, Sascha; Gerlach, Thomas; Gylstorff, Severin; Walles, Heike

3D bio-phantom for evaluating irreversible electroporation (IRE) on tumor cells in imaged guided interventions

Konferenz: 6th Conference on Image-Guided Interventions, IGIC 2023, Mannheim, 19-20 October 2023, 6th Conference on Image-Guided Interventions - Mannheim . - 2023, S. 70-71

DISSERTATIONEN

Janocha, Manuel; Tsotsas, Evangelos [AkademischeR BetreuerIn]; Scheffler, Franziska [AkademischeR BetreuerIn]

Ex situ and in silico study of layer build-up and structure formation phenomena during convective drying of deposited droplets

Magdeburg: Universitätsbibliothek, Dissertation Otto-von-Guericke-Universität Magdeburg, Fakultät für Verfahrens- und Systemtechnik 2023, 1 Online-Ressource (XIV, 176 Seiten, 46,75 MB) ;
[Literaturverzeichnis: Seite 161-172]

Munt, Maxim; Schinzer, Dieter [AkademischeR BetreuerIn]; Haak, Edgar [AkademischeR BetreuerIn]

Formale Totalsynthese von (+)-Neosorangicin A

Magdeburg: Universitätsbibliothek, Dissertation Otto-von-Guericke-Universität Magdeburg, Fakultät für Verfahrens- und Systemtechnik 2023, 1 Online-Ressource (178, V Seiten, 6,45 MB) ;

[Literaturverzeichnis: Seite I]