

CURRICULUM VITAE

Prof. Dr. SANDY SCHMIDT

1. PERSONAL INFORMATION

University of Groningen
Groningen Research Institute of Pharmacy
Antonius Deusinglaan 1
9713AV Groningen, The Netherlands
Phone: +31 50 363 3363
Email: s.schmidt@rug.nl

Web: www.schmidt-researchgroup.com
Twitter: @SandySchmidt24
Nationality: German
Date of birth: 24.06.1989
Place of birth: Jena, Germany
ORCID: 0000-0002-8443-8805

1.1 DEGREES

- 10/2007-09/2012 **Diploma in Biochemistry** (*Diplom-Biochemikerin*, equiv. M. Sc.)
University of Greifswald, Institute of Biochemistry, Germany
- 10/2012-10/2015 **Ph.D. in Biocatalysis** (*Dr. rer. nat, summa cum laude*)
University of Greifswald, Institute of Biochemistry, Germany
Title: An artificial enzyme cascade for the biocatalytic synthesis of polymer building blocks

1.2 ACADEMIC EMPLOYMENT

- 12/2015 – 01/2017 **Postdoctoral Researcher**
Delft University of Technology, The Netherlands
- 02/2017 – 03/2020 **Senior Scientist** (*Universitätsassistentin mit Doktorat*)
Graz University of Technology, Austria
- 04/2020 – 06/2024 **Assistant Professor** (Rosalind Franklin Fellow), tenure obtained in Mar 2023 (permanent position), University of Groningen, The Netherlands
- 07/2024 – present **Associate Professor** (adjunct) with *ius promovendi* (Rosalind Franklin Fellow), University of Groningen, The Netherlands

1.3 HONORS AND AWARDS

- 2015 German Academic Exchange Service (DAAD) fellowship and fellowships from the Gesellschaft Deutscher Chemiker and the promotion program for women (University of Greifswald, Germany) for international conference participation
- 2015 & 2018 Awards for best poster at the internationally renowned Gordon Research Conference on Biocatalysis (2018, USA) and the 12th Biotrans Research Conference (2015, Austria)
- 2018 Max Buchner Research Fellowship, Max Buchner Research Foundation, Dechema (Germany)
- 2020 Rosalind Franklin Fellowship
- 2022 Selected as ChemBioTalent by *ChemBioChem*
- 2022 Selected as CatalysisTalent by *ChemCatChem*
- 2022 International Biocat Award, category 'Academic Research'

1.4 MEMBERSHIPS OF PROFESSIONAL SOCIETIES

- 2014 - 2017 German Chemical Society (Gesellschaft Deutscher Chemiker e. V., Germany)

Since 2017	German Society for Chemical Engineering and Biotechnology (Gesellschaft für Chemische Technik und Biotechnologie e.V., Germany)
Since 2020	Dutch Biotechnology Association (Nederlandse Biotechnologie Vereniging, NL)
Since 2021	Royal Netherlands Chemical Society (Koninklijke Nederlandse Chemische Vereniging, NL)
Since 2021	Member of the working groups <i>Chemistry of Life</i> and <i>Chemical Conversion</i> of the Netherlands Organisation for Scientific Research (NWO)

2. PROFESSIONAL SERVICE AND MANAGEMENT

2.1 BOARD AND EDITORIAL ACTIVITIES

Since 2020	Editorial board member of <i>Frontiers in Catalysis</i> , Frontiers Media SA (Switzerland)
2021	Editor of textbook <i>The autotrophic biorefinery</i> , DeGruyter (Germany)
2021	Topic Editor for 'Research Topic' in <i>Frontiers in Catalysis</i> , Frontiers Media SA (Switzerland)
2021	Guest Editor for <i>Catalysts</i> special issue ' Biocatalytic Cascade Reactions ', MDPI (Switzerland)
2021	Guest Editor for the <i>ChemBioChem</i> / <i>ChemCatChem</i> Special Issue ' PhotoBioCat ', and <i>ChemBioChem</i> Special Issue ' NextGenBiocat ', Chemistry Europe, John Wiley & Sons
Since 2021	Editorial Board member of the <i>RÖMPP's Chemistry Lexicon</i> , Georg Thieme Verlag (Germany)
Since 2021	Member of the 'NextGenBiocat - An International Young Investigator Symposium' Organizing Committee
2022	Member of <i>JACS Au</i> Early Career Advisory Board
Since 2022	Member of the 'International Congress on Biocatalysis' Advisory Board
2023	Guest Editor for <i>Communications Chemistry</i> Special Collection on ' Chemoenzymatic Synthesis '
2024	Topic Editor for Research Topic on ' Emerging Trends and Recent Advances in the Biological Utilization of CO₂ ' in <i>Frontiers in Microbiology</i> , Frontiers Media SA (Switzerland)
Since 2025	Editorial Advisory Board Member of <i>ChemCatChem</i>

2.2 EXTERNAL REVIEWING ACTIVITIES

Since 2016	Reviewer for the journals <i>Nature</i> , <i>Science</i> , <i>Nature Catalysis</i> , <i>Nature Communications</i> , <i>Angewandte Chemie</i> , <i>JACS</i> , <i>JACS Au</i> , <i>ACS Catalysis</i> , <i>ACS Chemical Biology</i> , <i>ACS Sustainable Chemistry</i> , <i>Advanced Synthesis & catalysis</i> , <i>Biochemistry</i> , <i>Bioresources and Bioprocessing</i> , <i>Current Opinion in Biotechnology</i> , <i>Frontiers in Chemistry</i> , <i>Journal of Biotechnology</i> , <i>Organic and Biomolecular Chemistry</i> , <i>Trends in Biotechnology</i> , <i>Chem Catalysis</i> , <i>ChemCatchem</i> , <i>ChemBioChem</i> , <i>Organic Chemistry Frontiers</i>
2020	Member of the reading committee for the PhD thesis of Georg T. Höfler (Delft University of Technology), Supervisors: Prof. Frank Hollmann, Dr. Caroline E. Paul
Since 2021	Reviewer for grant applications at Euronorm
Since 2021	Reviewer for grant applications for the <i>Netherlands Organization of Scientific Research</i> (NL), <i>Swiss National Science Foundation</i> (Switzerland), <i>Federal Ministry of Education and Research</i> (Germany), <i>Technical University of Munich</i> (Germany), <i>Agence Nationale de Recherche</i> (ANR, France)
2021	Member of the reading committee for the PhD thesis of Ahmad Zaheer (University of L'Aquila, Italy), Supervisor: Prof. Giuseppe Ferri
2022	Member of the reading committee for the PhD thesis of Xu Xiaomin (Delft University of Technology), Supervisor: Prof. Frank Hollmann, Dr. Caroline E. Paul

- 2023 Member of the reading committee for the PhD thesis of James C. Dykstra (Wageningen University), Supervisor: Prof. Diana Z. Sousa
- 2023 Member of the doctoral grading committee (Opponent) for the PhD thesis of Christina Jäger (University of Helsinki, Finland), Supervisor: Prof. Jan Deska
- 2023 Member of assessment committee (cluster committee and domain-wide committee) for Open Competition ENW-M, *Netherlands Organization of Scientific Research*
- 2024 Member of the reading committee for the PhD thesis of Sean Hüppi (Delft University of Technology), Supervisors: Prof. Rebecca Buller, Prof. Frank Hollmann
- 2025 Member of the doctoral grading committee (Opponent) for the PhD thesis of Lydia Suchy (Vienna University of Technology, Austria), Supervisor: Prof. Florian Rudroff

2.3 INSTITUTIONAL RESPONSIBILITIES

- 2017 – 2020 Member of the Molecular and Technical Biosciences Academic Committee, Graz University of Technology (Austria)
- since 2020 Committee member in 8 PhD defenses from three institutes at the University of Groningen (Stratingh Institute for Chemistry, Groningen Biomolecular Sciences and Biotechnology Institute, and Groningen Research Institute of Pharmacy)
- since 2020 Coordinator of Horizon2020 MSCA Innovative Training Network 'ConCO₂rde'
- Since 2021 Member of the GRIP Committee 'Equipment Funds', University of Groningen
- Since 2021 Member of the Supervisor Advisory Board of the Graduate School of Science and Engineering, University of Groningen
- since 2022 Coordinator of Horizon Europe MSCA Doctoral Network 'BiodeCCodiNng'
- Since 2022 Member of the Curriculum Committee Pharmacy, University of Groningen
- Since 2022 Member of the 'Pharmacy-Integrating Lecture' Committee, University of Groningen
- 2024 Member of the FSE Sustainability Challenge Working Group

2.4 PROFESSIONALIZATION ACTIVITIES

- 2020 Course Learning Design For Uncertain Times, ESI, University of Groningen
- 2021 Workshops during Grants week organized by University of Groningen and UMCG, *e.g.* ERC Starting grant, NWO Vidi, Narrative CV – An Introduction (19. – 23. April 2021)
- 2021 Vidi writing course by Talent development team, University of Groningen
- 2021 Proposal training: ERC starting grant organized by NCP
- 2021 Webinars about Grants under Horizon Europe (from EU Commission)
- 2021-2022 RFF mentoring program
- 2021-2022 Course Coaching PhD students, University of Groningen
- 2022 Vidi interview training, University of Groningen
- 03/2023 University Teaching Qualification (UTQ), University of Groningen
- 2023-2024 Course Academic leadership I, University of Groningen

2.5 ORGANIZATION OF SCIENTIFIC MEETINGS

- 2018-2019 **BiotechCareers - Gender equality in a fast moving industry.** In 2018, I co-initiated and organized a yearly event series on career challenges and opportunities for women in academia. The invited female Professors gave talks about their research, followed by a panel discussion with students and researchers as audience.
- Since 2021 Co-chair and co-organizer of the annual '**NextGenBiocat - An International Young Investigator Symposium**', two-day conference to promote early-career researchers, organized online in 2021 (192 participants), and on-site in Delft (NL) in spring 2022 (approx. 120 participants), on-site in Graz (AT) in spring 2023 (approx. 120 participants) and on-site in Heraklion (GR) in spring 2024 (approx. 140 participants)

- 2022 Co-chair and co-organizer of the 'Amine Biocatalysis 5.0' conference, three-day conference for established and emerging researchers to share research on biocatalytic amine synthesis, on-site in Groningen (NL) in autumn 2022 (approx. 100 participants)
- 2023 Co-chair and co-organizer of the 'Carbon Tech Symposium', one-day symposium for researchers from academia and industry working on biological and chemical CO₂ utilization, on-site in Groningen (NL) in spring 2023 (approx. 100 participants)

3. TEACHING

3.1 UNDERGRADUATE COURSES TAUGHT

Acad. year	Course	Role
2020-2021	Academic Research and Communication Skills 2	Lecturer
2020-2021	Pharmaceutical Biotechnology	Lecturer
2020-2021	Proteins for Biopharmaceuticals & Drug Discovery	Lecturer
2021-2022	Academic Research and Communication Skills 1	Lecturer
2021-2022	Academic Research and Communication Skills 2	Lecturer
2021-2022	Pharmaceutical Biotechnology	Lecturer
2021-2022	Proteins for Biopharmaceuticals & Drug Discovery	Coordinator & Lecturer
2021-2022	Applied Biotechnology	Lecturer
2022-2023	Pharmaceutical Biotechnology	Lecturer
2022-2023	Proteins for Biopharmaceuticals & Drug Discovery	Coordinator & Lecturer
2022-2023	Molecular Biology of The Cell 1	Lecturer
2022-2023	Applied Biotechnology	Coordinator & Lecturer
2023-2024	Molecular Biology of The Cell 1	Lecturer
2023-2024	Green Chemistry	Lecturer
2023-2024	Proteins for Biopharmaceuticals & Drug Discovery	Coordinator & Lecturer
2023-2024	Applied Biotechnology	Coordinator & Lecturer
2024-2025	Molecular Biology of The Cell 1	Lecturer
2024-2025	Green Chemistry	Lecturer
2025-2026	Applied Biotechnology	Coordinator & Lecturer
2025-2026	Molecular Biology of The Cell 1	Lecturer

3.2 OTHER EDUCATIONAL ACTIVITIES

- Since 2020 Lecturer in Advanced course on Biocatalysis and Protein engineering, [BioTech Delft](#)
- 2021 Organization of a 'Keuzecollege' (VWO) program on 'Medicijnen produceren met behulp van enzymen' for classes of 14-16 year olds. Over a period of 6 weeks, students from 6 different schools in the Groningen area carried out experiments with enzymes and prepared a video summarizing their results and findings.
- 2021 Trainer and Lecturer at the ConCO₂rde training workshop 'Gender Awareness, Diversity, WoMen's EmPOWERment'
- 2022 Lecture on academic careers at the ConCO₂rde training workshop 'Career Development'
- 2023 Lecture on instrumental analysis at the ConCO₂rde training workshop 'Enzyme Catalysis & Synthetic Biology School'
- 2024 Trainer and Lecturer at the BiodeCCodiNNG training workshop 'EmPOWERed Gender Equality/Diversity & Mentorship'

4. RESEARCH

4.1 GRANT SUPPORT

- 2018, 2019 Initial fundings, Graz University of Technology, PI, two-times 6.000 €
- 2018 Principal Investigator in MSCA-ITN-EJD 'Light-driven sustainable biocatalysis training network - [PhotoBioCat](#)' (GA no. 764920), PI, total 3.0 M€ (255 k€ to my group)
- 2020 Coordinator of MSCA-ITN-EJD 'Training network on the conversion of CO₂ by smart autotrophic biorefineries - [ConCO₂rde](#)' (GA no. 955740), PI (coordinator), total 2.9 M€ (531 k€ to my group)
- 2022 Coordinator of Horizon-MSCA Doctoral Network 'Decoding novel reaction chemistries in biocatalysis - [BiodeCCodiNNG](#)' (GA no. 101073065), PI (coordinator), total 2.6 M€ (725 k€ to my group)
- 2022 Netherlands Organization of Scientific Research ENW-XS grant 'Capturing carbon, creating value: Teaching carbon dioxide eating bacteria new tricks', (OCENW.XS22.1.044), PI, 50.000 €
- 2022 Netherlands Organization of Scientific Research VIDI grant 'NNZYMES: Exploiting the catalytic power of nitrogen-nitrogen bond forming enzymes for sustainable chemical synthesis', (VI.Vidi.213.025), PI, 800 k€
- 2022 ERC Starting grant 'Reconstructing enzymes for novel nitrogen-nitrogen bond forming chemistry - ReCNNSTRCT' (GA no. 101075934), PI, 1.5 M€
- 2023 Netherlands Organization of Scientific Research ENW-XS grant 'Turning pollution into value: Engineering carbon-hungry microbes' (OCENW.XS23.3.002), PI, 50.000 €
- 2024 Supervisor/Coordinator of MSCA Postdoctoral Fellowship (Global) grant of Niels de Kok 'Characterization and engineering of non-heme iron-dependent Rieske oxygenases involved in cyanobacterial indole alkaloid biosynthesis - CyBRiOx' (grant agreement pending), PI (coordinator), 272 k€

4.2 CONFERENCE PROCEEDINGS

INVITED CONFERENCE LECTURES (SELECTION)

- 2020 Dutch Biocatalysis Symposium, 20th Nov 2020
- 2022 3rd ComBioCat Symposium, 8th-9th Jun 2022, Rostock, Germany
- 2022 10th International Congress on Biocatalysis, 28th Aug – 1st Sep 2022, Hamburg, Germany, **Keynote**
- 2022 Biocatalysis Symposium, 28th Oct 2022, Aachen, Germany
- 2022 NWO Chemistry of Life Day, 8th Dec 2022, Utrecht, NL
- 2023 Novel Enzymes, 28th – 31st Mar 2023, Greifswald, Germany, **Keynote**
- 2023 Biotrans - 16th International Symposium on Biocatalysis & Biotransformations, 25th – 29th Jun 2023, La Rochelle, France
- 2023 Beilstein Enzymology Symposium, 12th – 14th Sep 2023, Rüdesheim, Germany
- 2023 KNVM Fall Meeting General & Molecular Microbiology, 1st Nov 2023, Nijmegen, NL
- 2023 Sustainable Biotechnology Symposium, 21st – 23rd Nov 2023, Düsseldorf, Germany
- 2024 CLIB International conference – Biomanufacturing a greener future, 21th – 22nd Feb 2024, Düsseldorf, Germany
- 2024 CC-TOP Satellite Symposium to NextGenBiocat 2024, 22nd May 2024, Heraklion, Crete
- 2024 Jahrestagung der FG Nachhaltige Chemie 2024, 12th-13th September 2024, Mülheim (Ruhr), Germany
- 2024 NWO Chemical Conversion Open Platform Day, 2nd Oct 2024, Utrecht, NL
- 2024 European Summit of Industrial Biotechnology, 12th – 14th Nov 2024, Graz, Austria
- 2024 PhotoReAct Final Conference, 2nd-4th Dec 2024, Amsterdam, The Netherlands
- 2025 Netherlands Catalysis & Chemistry Conference (NCCC XXVI), 10th-12th Mar 2025, Noordwijkerhout, the Netherlands, **Keynote**

OTHER INVITED TALKS/LECTURES

- 2022 Invited lecture on Autotrophic Biotechnology at Norwegian University of Science and Technology, Norway, 12th Oct 2022, online
- 2023 Invited lecture at Institute Colloquium – Bioprocess Engineering, 25th Jan 2023, University of Dortmund, Germany
- 2021 'BIOTECH CAREERS: Navigating your way through academia as a young researcher', Lore-Agnes Project "Best practice – Forschung und Karrierewege von Wissenschaftlerinnen", 25th Jan 2023, Ruhr-University Bochum, Germany,
- 2023 Invited lecture on Photobiocatalysis, Seminar series at University of Pavia, Italy, 21st Jun 2023 online
- 2023 Invited lecture at Department of Chemistry, 26th Oct 2023, University of Helsinki, Finland
- 2024 Invited Lecture at Bayer AG (Leverkusen, Germany), 3rd Apr 2024, online
- 2024 Invited lecture at Catalysis Innovation Consortium Biocatalysis themed meeting, 15th May 2024, online
- 2024 Invited lecture at ESAB Webinar on Photobiocatalysis, 20th Dec 2024, online

CONFERENCE SESSION ORGANIZATION AND CHAIRING

- 2021 5th Multistep Enzyme Catalyzed Processes Congress, Chair of the session 'Novel Enzymes & Enzyme Engineering', 13th – 16th Sep 2021, online
- 2021 NWO CHAINS 2021, Chair of the session 'Chemical Conversion', 7th – 8th Dec 2021, online
- 2022 Gordon Research Seminar Biocatalysis, Discussion leader, 9th – 10th July 2022, Manchester, NH, United States
- 2022 European Summit of Industrial Biotechnology, Organizer of the session 'Building a new future: CO₂-based bioprocesses – A researcher perspective', 14th – 16th Nov 2022, Graz, Austria
- 2023 Dutch Medicine Days, Organizer of the session 'Green Energy and Medicines Synthesis', 20th – 21st Sep 2023, Oss, NL

4.3 SCIENTIFIC PUBLICATIONS

(# corresponding author; * first author)

1. Terholsen, H., Medema, L., Chernyshova, E., Luján, A. P., Poelarends, G. J., **Schmidt, S.#** Nitroreductase-Triggered Indazole Formation. ChemRxiv 2025. DOI: [10.26434/chemrxiv-2025-2hs17](https://doi.org/10.26434/chemrxiv-2025-2hs17). *This article is a preprint and has not been certified by peer review. Manuscript submitted.*
2. Li, Y., Osipyan, A., Kok, N. A. W. De, Schröder, S., Founti, M., Merkerk, R. Van, Maier, A., Tischler, D., **Schmidt, S.#** Access to Nitrogen-Nitrogen Bond-Containing Heterocycles through Substrate Promiscuity of Piperazate Synthases. ChemRxiv 2025. DOI: [10.26434/chemrxiv-2025-f1l90](https://doi.org/10.26434/chemrxiv-2025-f1l90). *This article is a preprint and has not been certified by peer review. Manuscript submitted.*
3. Angeli, C. Atienza-Sanz, S. Schröder, S., Hein, A., Li, Y., Argyrou, A., Osipyan, A., Terholsen, H., **Schmidt, S.#** Recent Developments and Challenges in the Enzymatic Formation of Nitrogen–Nitrogen Bonds. ACS Catal. 15, 310–342 (2025). DOI: [10.1021/acscatal.4c05268](https://doi.org/10.1021/acscatal.4c05268).
4. Runda, M.E., Miao, H., **Schmidt, S.#** Protein fusion strategies for a multi-component Rieske oxygenase. bioRxiv 2024.06.09.598105. DOI: [10.1101/2024.06.09.598105](https://doi.org/10.1101/2024.06.09.598105). *This article is a preprint and has not been certified by peer review.*
5. Vajente, M., Clerici, R., Ballerstedt, H., Blank, L.M., **Schmidt, S.#** Using *Cupriavidus necator* H16 to provide a roadmap for increasing electroporation efficiency in non-model bacteria. ACS Synth. Biol. 2024, 1-2. DOI: [10.1021/acssynbio.4c00380](https://doi.org/10.1021/acssynbio.4c00380). (BioRxiv: DOI: [10.1101/2024.05.27.596136](https://doi.org/10.1101/2024.05.27.596136)).

6. Runda, M.E., Miao, H., de Kok, N.A.W., **Schmidt, S.**[#] Developing Hybrid Systems to Address O₂ Uncoupling in Multi-Component Rieske Oxygenases. *J. Biotechnol.* 2024, 389, 22-29. DOI: [10.1016/j.jbiotec.2024.04.019](https://doi.org/10.1016/j.jbiotec.2024.04.019). (BioRxiv: DOI: [10.1101/2024.02.16.580709](https://doi.org/10.1101/2024.02.16.580709)).
7. Terholsen, H., **Schmidt, S.**[#] Cell-free chemoenzymatic cascades with bio-based molecules. *Curr. Opin. Biotechnol.* 2023, 85, 103058. DOI: [10.1016/j.copbio.2023.103058](https://doi.org/10.1016/j.copbio.2023.103058).
8. Schröder, S., Maier, A., **Schmidt, S.**, Mügge, C., Tischler, D. Enhancing the biocatalytical N-N bond formation with the actinobacterial piperazate synthase KtzT. *Mol. Catal.* 2023, 553, 113733. DOI: [10.1016/j.mcat.2023.113733](https://doi.org/10.1016/j.mcat.2023.113733).
9. Grandi, E., Özgen, F.F., **Schmidt, S.**[#] and Poelarends, G.J.[#] Enzymatic Oxy- and Amino-Functionalization in Biocatalytic Cascade Synthesis: Recent Advances and Future Perspectives. *Angew. Chem. Int. Ed.* 2023, 202309012. DOI: [10.1002/anie.202309012](https://doi.org/10.1002/anie.202309012).
10. Runda, M.E., Kremser, B., Özgen, F.F., **Schmidt, S.**[#] An optimized in vitro system for Rieske oxygenase-catalyzed hydroxylations. *ChemCatChem* 2023, e202300371. DOI: [10.1002/cctc.202300371](https://doi.org/10.1002/cctc.202300371).
11. Runda, M.E., de Kok, N.A.W., and **Schmidt, S.**[#] Rieske Oxygenases and other Ferredoxin-dependent Enzymes: Electron Transfer Principles and Catalytic Capabilities. *ChemBioChem* 2023, e202300078. DOI: [10.1002/cbic.202300078](https://doi.org/10.1002/cbic.202300078). Highlighted in [ChemBioTalents Special collection](#) and invited for Cover Feature (in print).
12. Alphand, V., Berkel, W.J.H. Van, Jurkaš, V., Kara, S., Kourist, R., Kroutil, W., Mascia, F., Nowaczyk, M.M., Paul, C.E., **Schmidt, S.**, et al. Exciting Enzymes: Current State and Future Perspective of Photobiocatalysis. *ChemPhotoChem* 2023, 202200325. DOI: [10.1002/cptc.202200325](https://doi.org/10.1002/cptc.202200325).
13. Runda, M.E., and **Schmidt, S.**[#] Light-driven bioprocesses. *Phys. Sci. Rev.*, 2023, 1–34. DOI: [10.1515/psr-2022-0109](https://doi.org/10.1515/psr-2022-0109).
14. de Kok, N.A.W., and **Schmidt, S.**[#] Tapping into abiological reaction chemistries in biocatalysis. *Chem Catal.* 2023, 3, 100493. DOI: [10.1016/j.cheecat.2022.100493](https://doi.org/10.1016/j.cheecat.2022.100493). Highlighted in ['Woman in Catalysis' Special Collection](#).
15. **Schmidt, S.**[#] Photoexcited Enzymes for Asymmetric Csp³-Csp³ Cross-Electrophile Couplings. *Angew. Chem. Int. Ed.* 2022, e202214313, DOI: [10.1002/anie.202214313](https://doi.org/10.1002/anie.202214313).
16. Özgen, F.F., Jorea, A., Capaldo, L., Kourist, R., Ravelli, D.,[#] and **Schmidt, S.**[#] The Synthesis of Chiral γ -Lactones by Merging Decatungstate Photocatalysis with Biocatalysis. *ChemCatChem* 2022 14, e202200855. DOI: [10.1002/cctc.202200855](https://doi.org/10.1002/cctc.202200855). Highlighted in ['Catalysis Talents'](#) and ['Photocatalytic Synthesis – Catalysts, Catalytic Strategies, and Mechanistic Insights'](#) Special Collections and with a Cover Feature: DOI: [10.1002/cctc.202201064](https://doi.org/10.1002/cctc.202201064).
17. Özgen, F.F., Runda, M.E., and **Schmidt, S.**[#] Photo-biocatalytic Cascades: Combining Chemical and Enzymatic Transformations Fueled by Light. *ChemBioChem* 2021, 22, 790–806. DOI: [10.1002/cbic.202000587](https://doi.org/10.1002/cbic.202000587). Published within the ['PhotoBioCat'](#) and ['International Year of Basic Sciences for Sustainable Development'](#) Special Collections.
18. Özgen, F.F., Runda, M.E., Burek, B.O., Wied, P., Bloh, J.Z., Kourist, R., **Schmidt, S.**[#] Artificial light-harvesting complexes enable Rieske oxygenase-catalyzed hydroxylations in non-photosynthetic cells, *Angew. Chem. Int. Ed.* 2020, 59, 3982; DOI: [10.1002/anie.201914519](https://doi.org/10.1002/anie.201914519); Artificielle Lichtsammelkomplexe ermöglichen Rieske-Oxygenase-katalysierte Hydroxylierungen in nicht-photosynthetischen Zellen. *Angew. Chem.* 2020, 132, 4010; DOI: [10.1002/ange.201914519](https://doi.org/10.1002/ange.201914519).

19. Büchschütz, H.C., Vidimce-Risteski, V., Eggbauer, B., **Schmidt, S.**, Winkler, C.K., Schrittwieser, J.H., Kroutil, W., Kourist, R. Stereoselective Biotransformations of Cyclic Imines in Recombinant Cells of *Synechocystis* sp. PCC 6803. *ChemCatChem* 2020, 12, 726–30; DOI: [10.1002/cctc.201901592](https://doi.org/10.1002/cctc.201901592).
20. Schweiger, A.K., Ríos-Lombardía, N., Winkler, C.K., **Schmidt, S.**, Morís, F., Kroutil, W., González- Sabín, J., Kourist, R. Using Deep Eutectic Solvents to Overcome Limited Substrate Solubility in the Enzymatic Decarboxylation of Bio-Based Phenolic Acids. *ACS Sustain. Chem. Eng.* 2019, 7, 16364–70. DOI: [10.1021/acssuschemeng.9b03455](https://doi.org/10.1021/acssuschemeng.9b03455).
21. Schmermund, L., Jurkaš, V., Özgen, F.F., Barone, G.D., Büchschütz, H.C., Winkler, C.K., **Schmidt, S.**, Kourist, R., Kroutil, W., PhotoBiocatalysis: Biotransformations in the Presence of Light, *ACS Catal.* 2019, 9, 5, 4115–4144; DOI: [10.1021/acscatal.9b00656](https://doi.org/10.1021/acscatal.9b00656).
22. Assil-Companiononi, L., **Schmidt, S.**, Heidinger, P., Schwab, H., Kourist, R., Hydrogen-driven cofactor regeneration for stereoselective whole-cell C=C bond reduction in *Cupriavidus necator*, *ChemSusChem*, 2019, DOI: [10.1002/cssc.201900327](https://doi.org/10.1002/cssc.201900327).
23. Zhang, W., Fernández-Fueyo, E., Hollmann, F., Leemans Martin, L., Pesic, M., Wardenga, R., Höhne, M., **Schmidt, S.**[#], Combining photo-redox and enzyme catalysis facilitates asymmetric C-H bond functionalization. *Eur. J. Org. Chem.*, 2019, 80–84, DOI: [10.1002/ejoc.201801692](https://doi.org/10.1002/ejoc.201801692).
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