CURRICULUM VITAE

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CONTACT DETAILS

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EDUCATION	
10/2018 – 06/2020	Master's programme Management in Chemical Technologies Johannes-Kepler-University Linz
	Thesis title: "Optimizing the catalytic depolymerisation of Lignin"
08/2016 – 12/2016	Semester abroad Elmhurst College, Illinois, USA
10/2014 – 07/ 2018	Bachelor's programme "Technical Chemistry" Johannes-Kepler-University Linz
WORK EXPERIENCE	
From 06/2020	Research associate in the Energy Engineering department at Energieinstitut an der Johannes-Kepler-Universität Linz
09/2019 – 4/2020	Master student at Kompetenzzentrum Holz (Wood K Plus) in the department of Wood Chemistry and Biotechnology.
09/2018 – 09/2019	Student Assistent at Energieinstitut an der Johannes-Kepler- Universität Linz

WORKS AS FIRST AUTHOR IN PEER-REVIEWED JOURNALS

• Zeilerbauer, L., Lindorfer, J., Süss, R., & Kamm, B. (2022). Techno-economic and lifecycle assessment of a wood chips-based Organosolv biorefinery concept for production of lignin monomers and oligomers by base-catalyzed depolymerization. *Biofuels, Bioproducts and Biorefining*, *16*(2), 370-388.

WORKS AS CO-AUTHOR IN PEER-REVIEWED JOURNALS

- Süss, R., Kamm, B., Arnezeder, D., **Zeilerbauer, L**., & Paulik, C. (2022). Homogeneously catalyzed depolymerization of lignin from organosolv medium: Characterization, optimization, and minimization of coke formation. *The Canadian Journal of Chemical Engineering*, *100*, S38-S48.
- Süss, R., Aufischer, G., Zeilerbauer, L., Kamm, B., Meissner, G., Spod, H., & Paulik, C. (2022). Depolymerisation of organosolv lignin by supported Pt metal catalysts. *Catalysis Communications*, 170, 106503
- Rodin, V., **Zeilerbauer, L**., Lindorfer, J., Paulik, C., & Finger, D. (2022). Life cycle assessment of a novel electrocatalytic process for the production of bulk chemical ethylene oxide from biogenic CO₂. *Frontiers in Sustainability*, *3*, 799389

Poster Presentations

Zeilerbauer, L. (2022, November 9-11). *The multifunctionality problem in Life Cycle Assessment and its influence on the sustainability assessment of plastic recycling*. [Poster Presentation] Recy & Depotech, Leoben, Austria. https://www.recydepotech.at/media/Programmheft_138.pdf

Zeilerbauer, L. (2021, September 6-8). *Life cycle Assessment of a wood chips-based organosolv biorefinery concept for the production of valued-added phenolic monomers from lignin using an optimized base-catalysed-depolymerisation (BCD) approach.* [Poster presentation] 10th LCM conference, Stuttgart, Germany. https://lcm2021-media.org/document/techno-economic-and-life-cycle-assessment-of-a-wood-chips-based-organosolv-biorefinery-concept-for-the-production-of-value-added-phenolic-monomers-from-lignin-using-an-optimized-base-catalysed-depolym/

Vorträge nach Einladung

Zeilerbauer, L. (2022, November 23). *Life Cycle Assessment of high temperature heat pumps.* [Webinar], BAMBOO Project.