

# CURRICULUM VITAE

by

**Dr.<sup>in</sup> techn. Valerie Pfeffer-Rodin MSc.**

## PERSONAL INFORMATION

**First/Surname** Valerie Pfeffer-Rodin  
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## EDUCATION

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Since 11/2020	External PhD student at the Institute for Chemical Technology of Organic Materials (CTO) at JKU Linz
10/2015-11/2017	Master course on Eco-Energy Engineering at the University of Applied Sciences Upper Austria, Campus Wels Degree: Master of Science in Engineering (passed with distinction)
10/2012-10/2015	Bachelor course on Eco-Energy Engineering at the University of Applied Sciences Upper Austria, Campus Wels Degree: Bachelor of Science in Engineering
10/2004-07/2012	A.B. von Stetten Institut Augsburg, grammar school Field of study: Scientific-Technological

## PROFESSIONAL ACTIVITIES

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Since 03/2023	Senior Researcher, Department of Energy Technology at the Energieinstitut an der Johannes Kepler Universität Linz, Austria
03/2021 – 02/2023	Research Associate, Department of Energy Technology at the Energieinstitut an der Johannes Kepler Universität Linz, Austria
03/2018 – 02/2021	Junior Researcher, Department of Energy Technology at the Energieinstitut an der Johannes Kepler Universität Linz, Austria
03/2017-08/2017	Master student at the Research School of Engineering, Australian National University, Canberra, Australia

03/2015-05/2015	Bachelor student at the Fraunhofer Institute for Solar Energy Systems (ISE) in Freiburg/Breisgau, Germany
07/2014-09/2014	Internship as a working student at Integriertes Planen, Ingenieurbüro Hamp in Munich, Germany

## ADDITIONAL QUALIFICATIONS

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- Member of the Energieinstitut's internal Diversity Task Force.
- Energy cooperation of industrial companies & industrial symbiosis
- Techno-economic analyses, life cycle and potential analyses of renewable resources & energies as well as innovative processes
- QGIS - potential analyses and scenario building
- GaBi - Life cycle analyses (LCA)
- Citavi & Zotero - literature databases
- MS Office
- During studies/internships/theses good experience with
  - Matlab, Mathematica, ANSYS Fluent, div. CAD software
  - Div. software tools for simulation of renewable energy plants
  - Div. energy certificate tools

## PUBLICATIONS (selection)

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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 CO<sub>2</sub>, *Frontiers in Sustainability*, Vol 3, <https://doi.org/10.3389/frsus.2022.799389>

Rodin, V.; Moser, S. (2022) From theory to practice: Supporting industrial decarbonization and energy cooperation in Austria, *Energy Research & Social Science*, Vol 94, 2022, 102863, <https://doi.org/10.1016/j.erss.2022.102863>.

Scharber, M.; Rodin, V.; Moser, S.; Greßler, S. et al. (2021) „Advanced Materials“ für innovative Solarzelltechnologien. Teil I: Grundlagen, historische Entwicklung und Marktpotenzial. *Nanotrust Dossiers*. <https://doi.org/10.1553/ita-nt-056>

Moser, S.; Rodin, V. (2021) The 'Industrial Symbiosis Gap': information asymmetries are the main challenge for industrial symbiosis – evidence from four Austrian testbeds with a focus on heat exchange. *e & i Elektrotechnik und Informationstechnik* 138, pages 264–268 (2021) <http://dx.doi.org/10.1007/s00502-021-00897-y>

Rodin, V.; Moser, S. (2021) The perfect match? 100 reasons why energy cooperation is not realized in industrial parks. *Energy Research & Social Science* Vol. 74 April 2021, 101964. <https://doi.org/10.1016/j.erss.2021.101964>

Linhart, M.; Rodin, V.; Moser, S.; Kollmann, A. (2021) Citizen Participation to Finance PV Power Plants Focused on Self-Consumption on Company Roofs - Findings from an Austrian Case Study. *Energies* 2021, 14(3), 738. <https://doi.org/10.3390/en14030738>

Moser, S.; Puschnigg, S.; Rodin, V. (2020) Designing the Heat Merit Order to determine the value of industrial waste heat for district heating systems. *Energy* Vol. 200, June 2020, 117579. <https://doi.org/10.1016/j.energy.2020.117579>

Rodin V.; Lindorfer, J.; Böhm, H.; Vieira, L. (2020) Assessing the potential of carbon dioxide valorisation in Europe with focus on biogenic CO<sub>2</sub>. *Journal of CO<sub>2</sub> Utilization* 2020, 41, 101219. <https://doi.org/10.1016/j.jcou.2020.101219>

Moser, S.; Puschnigg, S.; Rodin, V. (2020) Designing the Heat Merit Order to determine the value of industrial waste heat for district heating systems. *Energy* 2020, 200, 117579

Rodin, V. (2017) Characterisation and Modelling of Photoluminescence Spectra of Various Silicon Solar Cells at Different Operating Conditions, master thesis

Rodin, V. (2015) Photolumineszenzmessungen zur Absorptionsbestimmung in Siliziumwafern, bachelor thesis