# Presentations
**Status: January 2025**

**Oral Talks**

[21]   Melanie Gschweng; Julia L. Heidingsfeld; Olaf Böckmann; Micha Schäfer; Michael Böhm; Oliver Sawodny: „Evaporator Temperature Control of a Solar-Powered Adsorption Façade System", CCTA, 2024

[20]   Olaf Böckmann, David Borschewski, Simon Weber, Micha Schäfer: „Simulation-based determination of system size and energy savings for a life cycle assessment of a facade-integrated adsorption system for solar cooling of buildings", BauSim, 2024

[19]   Qiwei Li, Olaf Böckmann, Micha Schäfer: „Operation Optimization of a Facade Integrated Adsorption Based Solar Cooling System for Lightweight High-rise Buildings", Eurosun, 2024

[18]   D. Haeuslein, R. Schmidt-Vollus, M. Popp and M. Schaefer. "Modeling and Simulation of a Thermal Pumped Piston Storage within a Renewable Energy Supply System", 18th International Renewable Energy Storage Conference (IRES), Aachen (2023)

[17]   Tim Dubies, Olaf Böckmann, Micha Schäfer: „Material Study for a Facade-Integrated Adsorption System for Solar Cooling of Buildings", IRES, 2023

[16]   Q. Li, O. Boeckmann and M. Schaefer. "Systematic Screening and Evaluation of Optimal Adsorbents for Façade-Integrated Adsorption-based Solar Cooling Systems of Building", 14th International Conference on Computational Heat, Mass and Momentum Transfer (ICCHMT), Düsseldorf (2023)

[15]   O. Boeckmann and M. Schaefer. "Alternating operation of a facade-integrated adsorption chiller for continuous cooling of lightweight buildings", Heat Powered Cycles Conference 2023, Edinburgh (2023)

[14]   Andreas Greiner, Olaf Böckmann, Simon Weber, Martin Ostermann, Micha Schaefer: „CoolSkin - A novel facade design for sustainable solar cooling by adsorption", POWERSKIN, 2022

[13]   Simon Weber, Olaf Böckmann, Andreas Greiner, Sumee Park, Micha Schäfer, Martin Ostermann, Philip Leistner: „Optimal operation and conceptual design of a novel facade-integrated adsorption cooling system", Eurosun, 2022

[12]   Heidingsfeld, J.; Boeckmann, O.; Schaefer, M.; Boehm, M.; Sawodny, O.: „Low Order Hybrid Model for Control Design of an Adsorption Facade System for Solar Cooling", CCTA, 2022

[11]   M. Schaefer. "Null-Energie Sauna: Schwitzen fürs Klima - in Deutschland und an jedem Ort der Welt", 18. Internationaler Sauna Kongress, Messe Stuttgart (2022), (**invited speaker**)

[10]   O. Boeckmann, M. Schaefer. "Modeling and simulation of a façade integrated adsorption system for solar cooling of lightweight buildings.", 17th International Renewable Energy Storage Conference (IRES), Düsseldorf (2022)

[10]   Schaefer, M.: *Development and Demonstration of a Zero Energy Sauna*, 15th International Conference on Energy Storage (ENERSTOCK), Ljubljana, 2021

[9]   Boeckmann, O.; Schaefer, M.: "Modellierung und Simulation eines fassadenintegrierten Adsorptionssystems zur solaren Gebäudekühlung", Dechema Thermodynamik Kolloqium, 2021

[8]   Schaefer, M; Marmullaku, D.; Boeckmann, O.: *Facade-integrated adsorption system for solar cooling of lightweight buildings*. 13th International Conference on Computational Heat Mass and Momentum Transfer, Paris, 2021

[7]   Schaefer, M.: *Modeling and simulation of closed low-pressure adsorbers for thermal energy storage*, 12th International Conference on Computational Heat Mass and Momentum Transfer (ICCHMT), Rom, 2019

[6]     Schaefer, M.: *Modellierung und Simulation von geschlossenen Niederdruck-Adsorbern zur thermischen Energiespeicherung.* DECHEMA -Jahrestreffen ProcessNet-Fachgruppe Wärme- und Stoffübertragung, Essen, 2019

[5]     Schaefer, M.: *Modelling and simulation of a closed low-pressure honeycomb adsorber for thermal energy storage.* 3rd Thermal and Fluids Engineering Conference, Fort Lauderdale, 2018

[4]     Schaefer, M.: *Speicherung von Windenergie.* 9. Rheiner Windenergie-Forum, KCE GmbH, Rheine, 2017 (**invited speaker**)

[3]     Schaefer, M.; Reinert, A.: *Modelling and simulation of the heat and mass transfer in an adsorber of a closed low-pressure adsorption system for thermal energy storage.* 12th International Conference on the Fundamentals of Adsorption, Friedrichshafen, 2016

[2]     Schaefer, M.; Thess, A.: Thermal energy storage research at the German Aerospace Center (DLR) and the University of Stuttgart (IES). JST International Workshop, Tokio, 2015

[1]     Schaefer, M. et al.: *Transversal vibrations of beams with boundary damping in the context of animal vibirssae.* 56th International Scientific Colloquium, Ilmenau, 2011


**Posters**


[5]     Olaf Böckmann, Magdalena Baumann, Micha Schäfer: „Modeling and simulation of a facade-integrated thermochemical energy storage system for solar cooling of buildings", Poster, Eurosun, 2024

[4]     Olaf Böckmann, Simon Weber, Andreas Schedler, Micha Schäfer: „First experimental investigations of a facade-integrated adsorption system for solar cooling", Poster, Eurosun, 2024

[3]     Schaefer, M.: *One-dimensional model of a closed low-pressure adsorber for thermal energy storage.* 9th International Conference on Porous Media & Annual Meeting, Rotterdam, 2017 (Kurzpräsentation und Poster)

[2]     Schaefer, M.; Seifeddine, A.: Modellierung und Ähnlichkeitsanalyse eines geschlossenen Niederdruck-Adsorptionssystems zur Skalierung von thermochemischen Energiespeichern. Jahrestreffen der ProcessNet-Fachgruppe Wärme- und Stoffübertragung, Kassel, 2016 (Poster)

[1]     Schaefer, M.: Modelling and simulation of a closed adsorption system for thermal energy storage applications. Sustainable Thermal Energy Management Network Conference, Newcastle upon Tyne, 2015 (Poster)