

# List of publication with regard to Passenger Rail – HVAC and Eco-Materials.

## Aerosol particle spreading:

- Mommert, Michael and Volkmann, Andre and Werner, Felix and Schmeling, Daniel (2026) Aerosol dispersion of state-of-art ventilation concepts in passenger trains - a comparative study. Atmospheric Environment: X, 31 (100487), Seiten 1-13. Elsevier. doi: 10.1016/j.aeaoa.2026.100487. ISSN 2590-1621.
- Schmeling, Daniel and Mommert, Michael and Volkmann, Andre and Werner, Felix and Lange, Pascal and Dehne, Tobias and Waldorf, Maximilian and Danzer, Peter (2026) Ensuring the rail passenger health: integration of new air distribution concepts in a full-scale long-distance train laboratory (DIRK). In: 19th International Conference on Indoor Air Quality and Climate, INDOOR AIR 2026. Indoor Air 2026, 2026-06-14 - 2026-06-18, Singapur.
- Schmeling, Daniel and Shishkin, Andrey (2025) Healthier passenger rail: Influence of the recirculation system on the spreading of exhaled particles in a passenger train. In: 14th World Congress on Railway Research WCRR 2025, Seiten 1-6. 14th World Congress on Railway Research WCRR 2025, 2025-11-17 - 2025-11-21, Colorado Springs, USA.
- Schiepel, Daniel and Volkmann, André and Schmeling, Daniel (2025) Influence of the Airflow Concept on the Aerosol Spreading in a Generic Train Compartment. In: Transport Transitions: Advancing Sustainable and Inclusive Mobility, Proceedings of the 10th TRA Conference, 2024, 1 (18), Seiten 410-416. Springer, Cham. 10th Transport Research Arena (TRA) Conference 2024, 2024-04-15 - 2024-04-18, Dublin, Irland. doi: 10.1007/978-3-031-88974-5\_60. ISBN 978-3-031-88973-8. ISSN 2196-5544.

## Individual Thermal Comfort:

- Dehne, Tobias and Schiepel, Daniel and Schmeling, Daniel (2025) Local and individual demand-controlled ventilation in a passenger train. In: The 17th ROOMVENT Conference (ROOMVENT 2024), 672 (01046), Seiten 1-7. EDPsciences. 17th RoomVent Conference 2024, 2024-04-22 - 2024-04-25, Stockholm, Sweden.
- Schmeling, Daniel and Zierke, Oliver and Maier, Julia and Dehne, Tobias and Volkmann, Andre and Marggraf-Micheel, Claudia and Goerke, Panja (2025) Multi-jet personalized ventilation in passenger trains: Objective and subjective thermal comfort. Building and Environment, 270, Seite 112510. Elsevier. doi: 10.1016/j.buildenv.2024.112510. ISSN 0360-1323.
- Schmeling, Daniel and Dehne, Tobias and Volkmann, Andre (2025) Increasing the thermal comfort in passenger rail: application of personalized environmental control systems. In: ISIAQ International Conference Healthy Buildings Europe 2025, Seiten 234-240. Healthy Buildings Europe 2025, 2025-06-08 - 2025-06-11, Reykjavik, Island. ISBN 9789935539762.
- Zierke, Oliver and Goerke, Panja and Maier, Julia and Hoermann, Hans-Juergen (2023) Influence of personal control on thermal comfort: A psychological effect or just the “right” temperature? Energy and Buildings, 295, Seite 113334. Elsevier. doi: 10.1016/j.enbuild.2023.113334. ISSN 0378-7788.