

Gerald Schweiger

List of Publications by Year in descending order

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17
papers

673
citations

687363

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940533

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17
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17
times ranked

616
citing authors

| # | ARTICLE | IF | CITATIONS |
|----|--|-----|-----------|
| 1 | Dynamic equation-based thermo-hydraulic pipe model for district heating and cooling systems. Energy Conversion and Management, 2017, 151, 158-169. | 9.2 | 119 |
| 2 | District heating and cooling systems – Framework for Modelica-based simulation and dynamic optimization. Energy, 2017, 137, 566-578. | 8.8 | 107 |
| 3 | The potential of power-to-heat in Swedish district heating systems. Energy, 2017, 137, 661-669. | 8.8 | 83 |
| 4 | An empirical survey on co-simulation: Promising standards, challenges and research needs. Simulation Modelling Practice and Theory, 2019, 95, 148-163. | 3.8 | 59 |
| 5 | Validation of dynamic building energy simulation tools based on a real test-box with thermally activated building systems (TABS). Energy and Buildings, 2018, 168, 42-55. | 6.7 | 48 |
| 6 | Active consumer participation in smart energy systems. Energy and Buildings, 2020, 227, 110359. | 6.7 | 48 |
| 7 | District energy systems: Modelling paradigms and general-purpose tools. Energy, 2018, 164, 1326-1340. | 8.8 | 44 |
| 8 | Information modelling for urban building energy simulation – A taxonomic review. Building and Environment, 2022, 208, 108552. | 6.9 | 33 |
| 9 | Modeling and simulation of large-scale systems: A systematic comparison of modeling paradigms. Applied Mathematics and Computation, 2020, 365, 124713. | 2.2 | 27 |
| 10 | Novel method to simulate large-scale thermal city models. Energy, 2018, 157, 633-646. | 8.8 | 22 |
| 11 | Enabling large-scale dynamic simulations and reducing model complexity of district heating and cooling systems by aggregation. Energy, 2020, 209, 118410. | 8.8 | 20 |
| 12 | IBPSA Project 1: BIM/GIS and Modelica framework for building and community energy system design and operation – ongoing developments, lessons learned and challenges. IOP Conference Series: Earth and Environmental Science, 2019, 323, 012114. | 0.3 | 19 |
| 13 | Power-to-X in Denmark: An Analysis of Strengths, Weaknesses, Opportunities and Threats. Energies, 2021, 14, 913. | 3.1 | 16 |
| 14 | District Heating Systems: An Analysis of Strengths, Weaknesses, Opportunities, and Threats of the 4GDH. Energies, 2019, 12, 4748. | 3.1 | 10 |
| 15 | Experiences from City-Scale Simulation of Thermal Grids. Resources, 2021, 10, 10. | 3.5 | 9 |
| 16 | IoT Middleware Platforms for Smart Energy Systems: An Empirical Expert Survey. Buildings, 2022, 12, 526. | 3.1 | 8 |
| 17 | Equation-based modelling for dynamic optimization of district scale energy systems – a scalability study. , 2019, , . | | 1 |