

Pierre Hollmuller

List of Publications by Year in descending order

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Version: 2024-02-01

22
papers

786
citations

567281

15
h-index

752698

20
g-index

22
all docs

22
docs citations

22
times ranked

749
citing authors

| # | ARTICLE | IF | CITATIONS |
|----|--|------|-----------|
| 1 | Evaluation of a 5 kWp photovoltaic hydrogen production and storage installation for a residential home in Switzerland. <i>International Journal of Hydrogen Energy</i> , 2000, 25, 97-109. | 7.1 | 179 |
| 2 | Cooling and preheating with buried pipe systems: monitoring, simulation and economic aspects. <i>Energy and Buildings</i> , 2001, 33, 509-518. | 6.7 | 104 |
| 3 | Experimental and numerical study of an earth-to-air heat exchanger for air cooling in a residential building in hot semi-arid climate. <i>Energy and Buildings</i> , 2016, 125, 109-121. | 6.7 | 96 |
| 4 | Analytical characterisation of amplitude-dampening and phase-shifting in air/soil heat-exchangers. <i>International Journal of Heat and Mass Transfer</i> , 2003, 46, 4303-4317. | 4.8 | 69 |
| 5 | Air-soil heat exchangers for heating and cooling of buildings: Design guidelines, potentials and constraints, system integration and global energy balance. <i>Applied Energy</i> , 2014, 119, 476-487. | 10.1 | 60 |
| 6 | Assessing energy savings in cooling demand of buildings using passive cooling systems based on ventilation. <i>Applied Energy</i> , 2014, 134, 426-438. | 10.1 | 41 |
| 7 | Evaluating the electricity saving potential of electrochromic glazing for cooling and lighting at the scale of the Swiss non-residential national building stock using a Monte Carlo model. <i>Energy</i> , 2019, 185, 136-147. | 8.8 | 34 |
| 8 | Understanding and bridging the energy performance gap in building retrofit. <i>Energy Procedia</i> , 2017, 122, 217-222. | 1.8 | 32 |
| 9 | Climatic cooling potential and building cooling demand savings: High resolution spatiotemporal analysis of direct ventilation and evaporative cooling for the Iberian Peninsula. <i>Renewable Energy</i> , 2016, 85, 766-776. | 8.9 | 30 |
| 10 | Heat pump systems for multifamily buildings: Potential and constraints of several heat sources for diverse building demands. <i>Applied Energy</i> , 2018, 225, 1033-1053. | 10.1 | 27 |
| 11 | Solar assisted heat pump system for multifamily buildings: Towards a seasonal performance factor of 5? Numerical sensitivity analysis based on a monitored case study. <i>Solar Energy</i> , 2017, 146, 543-564. | 6.1 | 22 |
| 12 | Spatial-Temporal Analysis of the Heat and Electricity Demand of the Swiss Building Stock. <i>Frontiers in Built Environment</i> , 2017, 3, . | 2.3 | 20 |
| 13 | Summer comfort in a low-inertia building with a new free-cooling system. <i>Applied Energy</i> , 2013, 112, 338-349. | 10.1 | 17 |
| 14 | Large solar driven heat pump system for a multifamily building: Long term in-situ monitoring. <i>Solar Energy</i> , 2015, 114, 427-439. | 6.1 | 16 |
| 15 | Impact of climate change on building cooling potential of direct ventilation and evaporative cooling: A high resolution view for the Iberian Peninsula. <i>Energy and Buildings</i> , 2019, 192, 31-44. | 6.7 | 16 |
| 16 | Spatial and temporal characterization of energy demand and resources for an existing and dense urban district in Geneva. <i>Energy Procedia</i> , 2017, 122, 259-264. | 1.8 | 6 |
| 17 | Solar assisted heat pump with ice storage for a 19 000 m ² retrofitted multi-family building complex. <i>Energy Procedia</i> , 2017, 122, 271-276. | 1.8 | 6 |
| 18 | Large Air-to-Water Heat Pumps for Fuel-Boiler Substitution in Non-Retrofitted Multi-Family Buildings-Energy Performance, CO ₂ Savings, and Lessons Learned in Actual Conditions of Use. <i>Energies</i> , 2022, 15, 5033. | 3.1 | 6 |

| # | ARTICLE | IF | CITATIONS |
|----|---|-----|-----------|
| 19 | Direct Coupling Solar and Heat Pump at Large Scale: Experimental Feedback From an Existing Plant. Energy Procedia, 2012, 30, 590-600. | 1.8 | 3 |
| 20 | Large Solar Assisted Heat Pump Systems in Collective Housing: In-situ Monitoring Results for Summer Season. Energy Procedia, 2014, 48, 1086-1095. | 1.8 | 2 |
| 21 | Hourly CO ₂ emission assessment of a 5 MW _{th} centralized groundwater HP district heating system in Geneva. Journal of Physics: Conference Series, 2019, 1343, 012076. | 0.4 | 0 |
| 22 | Performance gap analysis of a new Minergie A/P district. Journal of Physics: Conference Series, 2021, 2042, 012141. | 0.4 | 0 |