

# Pierre Hollmuller

## List of Publications by Year in descending order

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Version: 2024-02-01

22  
papers

786  
citations

643344

15  
h-index

843174

20  
g-index

22  
all docs

22  
docs citations

22  
times ranked

851  
citing authors

#	ARTICLE	IF	CITATIONS
1	Large Air-to-Water Heat Pumps for Fuel-Boiler Substitution in Non-Retrofitted Multi-Family Buildingsâ€™ Energy Performance, CO2 Savings, and Lessons Learned in Actual Conditions of Use. Energies, 2022, 15, 5033.	1.6	6
2	Performance gap analysis of a new Minergie A/P district. Journal of Physics: Conference Series, 2021, 2042, 012141.	0.3	0
3	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. Energy, 2019, 185, 136-147.	4.5	34
4	Impact of climate change on building cooling potential of direct ventilation and evaporative cooling: A high resolution view for the Iberian Peninsula. Energy and Buildings, 2019, 192, 31-44.	3.1	16
5	Hourly CO <sub>2</sub> emission assessment of a 5 MW centralized groundwater HP district heating system in Geneva. Journal of Physics: Conference Series, 2019, 1343, 012076.	0.3	0
6	Heat pump systems for multifamily buildings: Potential and constraints of several heat sources for diverse building demands. Applied Energy, 2018, 225, 1033-1053.	5.1	27
7	Solar assisted heat pump system for multifamily buildings: Towards a seasonal performance factor of 5? Numerical sensitivity analysis based on a monitored case study. Solar Energy, 2017, 146, 543-564.	2.9	22
8	Spatial and temporal characterization of energy demand and resources for an existing and dense urban district in Geneva. Energy Procedia, 2017, 122, 259-264.	1.8	6
9	Solar assisted heat pump with ice storage for a 19â€™000 m <sup>2</sup> retrofitted multi-family building complex. Energy Procedia, 2017, 122, 271-276.	1.8	6
10	Understanding and bridging the energy performance gap in building retrofit. Energy Procedia, 2017, 122, 217-222.	1.8	32
11	Spatialâ€™Temporal Analysis of the Heat and Electricity Demand of the Swiss Building Stock. Frontiers in Built Environment, 2017, 3, .	1.2	20
12	Experimental and numerical study of an earth-to-air heat exchanger for air cooling in a residential building in hot semi-arid climate. Energy and Buildings, 2016, 125, 109-121.	3.1	96
13	Climatic cooling potential and building cooling demand savings: High resolution spatiotemporal analysis of direct ventilation and evaporative cooling for the Iberian Peninsula. Renewable Energy, 2016, 85, 766-776.	4.3	30
14	Large solar driven heat pump system for a multifamily building: Long term in-situ monitoring. Solar Energy, 2015, 114, 427-439.	2.9	16
15	Airâ€™soil heat exchangers for heating and cooling of buildings: Design guidelines, potentials and constraints, system integration and global energy balance. Applied Energy, 2014, 119, 476-487.	5.1	60
16	Assessing energy savings in cooling demand of buildings using passive cooling systems based on ventilation. Applied Energy, 2014, 134, 426-438.	5.1	41
17	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
18	Summer comfort in a low-inertia building with a new free-cooling system. Applied Energy, 2013, 112, 338-349.	5.1	17

#	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	Analytical characterisation of amplitude-dampening and phase-shifting in air/soil heat-exchangers. International Journal of Heat and Mass Transfer, 2003, 46, 4303-4317.	2.5	69
21	Cooling and preheating with buried pipe systems: monitoring, simulation and economic aspects. Energy and Buildings, 2001, 33, 509-518.	3.1	104
22	Evaluation of a 5 kWp photovoltaic hydrogen production and storage installation for a residential home in Switzerland. International Journal of Hydrogen Energy, 2000, 25, 97-109.	3.8	179