Performance analysis of a wind tower in combination with an underground channel

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#	Paper	IF	Citations
19	A sustainable bio-inspired cooling unit for hot arid regions: Integrated evaporative cooling system in wind tower. *Applied Thermal Engineering*, **2019**, 161, 114201	5.8	14
18	Analysis of airflow inside a two-sided wind catcher building. *Journal of Wind Engineering and Industrial Aerodynamics*, **2019**, 190, 71-82	3.7	23
17	Inlet extensions for wind towers to improve natural ventilation in buildings. *Sustainable Cities and Society*, **2020**, 53, 101933	10.1	15
16	Adaptive thermal comfort and climate responsive building design strategies in dry hot and dry cold areas: Case study in Turpan, China. *Energy and Buildings*, **2020**, 209, 109678	7	23
15	Natural ventilation by windcatcher (Badgir): A review on the impacts of geometry, microclimate and macroclimate. *Energy and Buildings*, **2020**, 226, 110396	7	18
14	Performance analysis of desalination system working on humidification-dehumidification coupled with solar assisted air heater and wind tower: Closed and open water cycle. *Solar Energy*, **2020**, 205, 254-262	6.8	8
13	Study of wind towers with different funnels attached to increase natural ventilation in an underground building. *Frontiers of Architectural Research*, **2020**, 9, 925-939	2.3	4
12	Physical and hybrid modelling techniques for earth-air heat exchangers in reducing building energy consumption: Performance, applications, progress, and challenges. *Solar Energy*, **2021**, 216, 274-294	6.8	18
11	Prospects of shallow geothermal systems for sustainable heating and cooling of buildings. *Proceedings of Institution of Civil Engineers: Energy*, 1-8	0.7	0
10	Data-driven modelling techniques for earth-air heat exchangers to reduce energy consumption in buildings: a review. *Environmental Chemistry Letters*, 1	13.3	0
9	Passive cooling and natural ventilation by the windcatcher (Badgir): An experimental and simulation study of indoor air quality, thermal comfort and passive cooling power. *Journal of Building Engineering*, **2021**, 41, 102436	5.2	9
8	Experimental study of natural materials for an evaporative cooling design in hot-arid climate. *Building and Environment*, **2021**, 108564	6.5	0
7	Numerical simulation of natural ventilation with passive cooling by diagonal solar chimneys and windcatcher and water spray system in a hot and dry climate. *Energy and Buildings*, **2021**, 256, 111714	7	0
6	Numerical simulation of a combination of a new solar ventilator and geothermal heat exchanger for natural ventilation and space cooling. *International Journal of Energy and Environmental Engineering* , 1	4	0
5	Integrated simple design wind tower and enhanced solar still for hot and arid climate. *Energy Sources, Part A: Recovery, Utilization and Environmental Effects*, **2022**, 44, 6483-6500	1.6	1
4	The study of air distribution quality in the summer section of Iranian dry climate houses equipped with wind tower. *Sustainable Cities and Society*, **2022**, 104095	10.1	0
3	CFD modeling of the building integrated with a novel design of a one-sided wind-catcher with water spray: Focus on thermal comfort. **2022**, 53, 102736		0

2	Wind Catchers: An Element of Passive Ventilation in Hot, Arid and Humid Regions, a Comparative Analysis of Their Design and Function. **2022**, 14, 11088	1
1	Passive ventilation for sustainable underground environments from traditional underground buildings and modern multiscale spaces. **2023**, 134, 105002	0