

Manuel Ruiz de Adana

List of Publications by Year in descending order

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Version: 2024-02-01

39
papers

961
citations

430754

18
h-index

454834

30
g-index

40
all docs

40
docs citations

40
times ranked

866
citing authors

#	ARTICLE	IF	CITATIONS
1	Distribution of exhaled contaminants and personal exposure in a room using three different air distribution strategies. <i>Indoor Air</i> , 2012, 22, 64-76.	2.0	131
2	CFD analysis of the human exhalation flow using different boundary conditions and ventilation strategies. <i>Building and Environment</i> , 2013, 62, 191-200.	3.0	70
3	The risk of airborne cross-infection in a room with vertical low-velocity ventilation. <i>Indoor Air</i> , 2013, 23, 62-73.	2.0	66
4	Improvement of power quality using distributed generation. <i>International Journal of Electrical Power and Energy Systems</i> , 2010, 32, 1069-1076.	3.3	63
5	Experimental analysis and model validation of an opaque ventilated facade. <i>Building and Environment</i> , 2012, 56, 265-275.	3.0	52
6	Experimental evaluation of thermal comfort, ventilation performance indices and exposure to airborne contaminant in an airborne infection isolation room equipped with a displacement air distribution system. <i>Energy and Buildings</i> , 2018, 158, 209-221.	3.1	50
7	Experimental assessment of different mixing air ventilation systems on ventilation performance and exposure to exhaled contaminants in hospital rooms. <i>Energy and Buildings</i> , 2018, 177, 207-219.	3.1	46
8	Experimental energy performance assessment of a solar desiccant cooling system in Southern Europe climates. <i>Applied Thermal Engineering</i> , 2020, 165, 114579.	3.0	40
9	Energy saving potential of a hybrid HVAC system with a desiccant wheel activated at low temperatures and an indirect evaporative cooler in handling air in buildings with high latent loads. <i>Applied Thermal Engineering</i> , 2018, 131, 412-427.	3.0	39
10	A Fickian model for calculating wine losses from oak casks depending on conditions in ageing facilities. <i>Applied Thermal Engineering</i> , 2005, 25, 709-718.	3.0	37
11	Sensitivity study of an opaque ventilated facade in the winter season in different climate zones in Spain. <i>Renewable Energy</i> , 2015, 75, 524-533.	4.3	34
12	Assessment of displacement ventilation systems in airborne infection risk in hospital rooms. <i>PLoS ONE</i> , 2019, 14, e0211390.	1.1	31
13	Simplified performance correlation of an indirect evaporative cooling system: Development and validation. <i>International Journal of Refrigeration</i> , 2018, 88, 307-317.	1.8	29
14	Long term experimental analysis of thermal performance of extensive green roofs with different substrates in Mediterranean climate. <i>Energy and Buildings</i> , 2019, 197, 18-33.	3.1	27
15	Experimental analysis of the air velocity and contaminant dispersion of human exhalation flows. <i>Indoor Air</i> , 2017, 27, 803-815.	2.0	23
16	First and second order simplified models for the performance evaluation of low temperature activated desiccant wheels. <i>Energy and Buildings</i> , 2016, 116, 574-582.	3.1	20
17	Influence of the geometry of the airways on the characterization of exhalation flows. Comparison between two different airway complexity levels performing two different breathing functions. <i>Sustainable Cities and Society</i> , 2020, 53, 101874.	5.1	19
18	Detailed experimental analysis of the energy performance of a desiccant wheel activated at low temperature. <i>Applied Thermal Engineering</i> , 2020, 178, 115580.	3.0	18

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19	Experimental and numerical analysis of desiccant wheels activated at low temperatures. Energy and Buildings, 2016, 133, 529-540.	3.1	17
20	Energetic analysis and thermoeconomic study for a container-housed engine. Applied Thermal Engineering, 2006, 26, 1840-1850.	3.0	15
21	Experimental variation of the personal exposure in a hospital room influenced by wall heat gains. Building and Environment, 2019, 154, 252-262.	3.0	11
22	Techno-Economic Assessment of Heat Transfer Fluid Buffering for Thermal Energy Storage in the Solar Field of Parabolic Trough Solar Thermal Power Plants. Energies, 2017, 10, 1123.	1.6	10
23	Non-Invasive Forehead Segmentation in Thermographic Imaging. Sensors, 2019, 19, 4096.	2.1	10
24	Optimization of 100 MWe Parabolic-Trough Solar-Thermal Power Plants Under Regulated and Deregulated Electricity Market Conditions. Energies, 2019, 12, 3973.	1.6	9
25	Optimal Operation Strategies into Deregulated Markets for 50 MWe Parabolic Trough Solar Thermal Power Plants with Thermal Storage. Energies, 2019, 12, 935.	1.6	9
26	Exploring the reduction of energy demand of a building with an eco-roof under different irrigation strategies. Sustainable Cities and Society, 2021, 74, 103229.	5.1	9
27	Performance of an unglazed transpire collector in the facade of a building for heating and cooling in combination with a desiccant evaporative cooler. Renewable Energy, 2018, 122, 460-471.	4.3	8
28	Experimental study of a modular Unglazed transpired collector Façade for building refurbishment. Solar Energy, 2020, 201, 247-258.	2.9	8
29	Optimising ventilation-system design for a container-housed engine. Applied Energy, 2006, 83, 1125-1138.	5.1	7
30	Life cycle assessment of an experimental solar HVAC system and a conventional HVAC system. Energy and Buildings, 2022, 256, 111697.	3.1	7
31	Experimental and numerical study of dew-point indirect evaporative coolers to optimize performance and design. International Journal of Refrigeration, 2022, 142, 92-102.	1.8	7
32	Validation of multitask artificial neural networks to model desiccant wheels activated at low temperature. International Journal of Refrigeration, 2019, 100, 434-442.	1.8	6
33	Seasonal Analysis Comparison of Three Air-Cooling Systems in Terms of Thermal Comfort, Air Quality and Energy Consumption for School Buildings in Mediterranean Climates. Energies, 2021, 14, 4436.	1.6	5
34	Experimental study of overheating of an unglazed transpired collector façade under southern European summer conditions for four modes of operation. Solar Energy, 2019, 189, 194-206.	2.9	4
35	World location as associated factor for optimal operation model of Parabolic trough Concentrating Solar Thermal Power plants. , 2016, , .		1
36	Regulation issues for renewable energy integration into electrical markets. , 2017, , .		1

#	ARTICLE	IF	CITATIONS
37	Experimental and Numerical Analysis of Regenerative Indirect Evaporative Coolers. Environmental Sciences Proceedings, 2021, 9, .	0.3	1
38	Exhaled contaminant concentration data in a hospital room influenced by external heat gains. Data in Brief, 2019, 24, 103978.	0.5	0
39	Seasonal Performance Analysis of Three Air Cooling Systems for School Buildings. Environmental Sciences Proceedings, 2021, 9, 14.	0.3	0