

Tomohiro Kobayashi

List of Publications by Year in descending order

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Version: 2024-02-01

20
papers

242
citations

1040056

9
h-index

940533

16
g-index

20
all docs

20
docs citations

20
times ranked

134
citing authors

#	ARTICLE	IF	CITATIONS
1	Experimental investigation and CFD analysis of cross-ventilated flow through single room detached house model. <i>Building and Environment</i> , 2010, 45, 2723-2734.	6.9	48
2	Numerical investigation and accuracy verification of indoor environment for an impinging jet ventilated room using computational fluid dynamics. <i>Building and Environment</i> , 2017, 115, 251-268.	6.9	45
3	Effect of supply velocity and heat generation density on cooling and ventilation effectiveness in room with impinging jet ventilation system. <i>Building and Environment</i> , 2021, 205, 108299.	6.9	26
4	Stream Tube based Analysis of Problems in Prediction of Cross-Ventilation Rate. <i>International Journal of Ventilation</i> , 2009, 7, 321-334.	0.4	23
5	Influence of vertical airflow along walls on temperature and contaminant concentration distributions in a displacement-ventilated four-bed hospital ward. <i>Building and Environment</i> , 2020, 183, 107181.	6.9	14
6	Wind Driven Flow Through Openings - Analysis of the Stream Tube. <i>International Journal of Ventilation</i> , 2006, 4, 323-336.	0.4	13
7	Applicability of displacement ventilation and impinging jet ventilation system to heating operation. <i>Japan Architectural Review</i> , 2021, 4, 403-416.	1.1	13
8	Validity of Orifice equation and impact of building parameters on wind-induced natural ventilation rates with minute mean wind pressure difference. <i>Building and Environment</i> , 2022, 219, 109248.	6.9	10
9	Prediction of thermal and contaminant environment in a room with impinging jet ventilation system by zonal model. <i>Building and Environment</i> , 2022, 221, 109298.	6.9	10
10	Power transportation inside stream tube of cross-ventilated simple shaped model and pitched roof house. <i>Building and Environment</i> , 2009, 44, 1440-1451.	6.9	9
11	Experimental study and CFD modelling of four-bed hospital ward with all-air wall induction unit for air-conditioning. <i>Building and Environment</i> , 2022, 222, 109388.	6.9	7
12	130 YEAR HISTORY OF BUILDING NATURAL VENTILATION RESEARCH IN JAPAN ¼ A NARRATIVE REVIEW. <i>Journal of Environmental Engineering (Japan)</i> , 2018, 83, 749-759.	0.4	5
13	Simplified prediction using block model for vertical profile of temperature and contaminant concentration in a room with impinging jet ventilation. <i>Building and Environment</i> , 2022, 209, 108643.	6.9	5
14	EXPERIMENTAL INVESTIGATION AND ACCURACY STUDY OF CFD ANALYSIS FOR FLOW FIELD AROUND CROSS-VENTILATED BUILDING. <i>Journal of Environmental Engineering (Japan)</i> , 2009, 74, 481-488.	0.4	3
15	ACCURACY VERIFICATION OF PROCESSING METHODOLOGY IN PARTICLE IMAGE VELOCIMETRY FOR FLOW AROUND BUILDING. <i>Journal of Environmental Engineering (Japan)</i> , 2015, 80, 741-749.	0.4	3
16	Simplified Prediction Method of Vertical Temperature Distribution for Impinging Jet Ventilation System. <i>E3S Web of Conferences</i> , 2019, 111, 01097.	0.5	3
17	ESTIMATION OF NATURAL VENTILATION FLOW RATE FOR A PITCHED-ROOF DETACHED HOUSE PROVIDED WITH MONITOR ROOF. <i>Journal of Environmental Engineering (Japan)</i> , 2016, 81, 83-91.	0.4	2
18	Modeling of supply airflow from slot line diffuser on ceiling for CFD of thermal environment in perimeter zone. <i>Building and Environment</i> , 2022, 213, 108884.	6.9	2

#	ARTICLE	IF	CITATIONS
19	A FUNDAMENTAL STUDY ON CROSS-VENTILATION RATE AND AIRFLOW CHARACTERISTIC INSIDE FLOW PATH THROUGH A ROOM. Journal of Environmental Engineering (Japan), 2011, 76, 609-616.	0.4	1
20	A STUDY ON SEMI-DISPLACEMENT VENTILATION USING IMPINGING JET FLOW. Journal of Environmental Engineering (Japan), 2016, 81, 1117-1125.	0.4	0