

Simon Rouchier

List of Publications by Citations

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The third column is the impact factor (IF) of the journal, and the fourth column is the number of citations of the article.

18
papers

221
citations

9
h-index

14
g-index

18
ext. papers

251
ext. citations

5.4
avg, IF

3.62
L-index

#	Paper	IF	Citations
18	Damage monitoring in fibre reinforced mortar by combined digital image correlation and acoustic emission. <i>Construction and Building Materials</i> , 2013 , 38, 371-380	6.7	50
17	Calibration of simplified building energy models for parameter estimation and forecasting: Stochastic versus deterministic modelling. <i>Building and Environment</i> , 2018 , 134, 181-190	6.5	25
16	Sequential Monte Carlo for on-line parameter estimation of a lumped building energy model. <i>Energy and Buildings</i> , 2019 , 187, 86-94	7	21
15	Solving inverse problems in building physics: An overview of guidelines for a careful and optimal use of data. <i>Energy and Buildings</i> , 2018 , 166, 178-195	7	20
14	Identification of the hygrothermal properties of a building envelope material by the covariance matrix adaptation evolution strategy. <i>Journal of Building Performance Simulation</i> , 2016 , 9, 101-114	2.8	19
13	Influence of concrete fracture on the rain infiltration and thermal performance of building facades. <i>International Journal of Heat and Mass Transfer</i> , 2013 , 61, 340-352	4.9	17
12	Characterization of fracture patterns and hygric properties for moisture flow modelling in cracked concrete. <i>Construction and Building Materials</i> , 2012 , 34, 54-62	6.7	16
11	Decision-making based on network visualization applied to building life cycle optimization. <i>Sustainable Cities and Society</i> , 2017 , 35, 565-573	10.1	16
10	Hygric characterization of wood fiber insulation under uncertainty with dynamic measurements and Markov Chain Monte-Carlo algorithm. <i>Building and Environment</i> , 2017 , 114, 129-139	6.5	15
9	Influence of Diffuse Damage on the Water Vapour Permeability of Fibre-Reinforced Mortar. <i>Transport in Porous Media</i> , 2012 , 93, 543-559	3.1	7
8	Characterisation of concrete and mortar cracking by digital image correlation and acoustic emission. <i>European Journal of Environmental and Civil Engineering</i> , 2013 , 17, 467-477	1.5	7
7	An Approach to Study District Thermal Flexibility Using Generative Modeling from Existing Data. <i>Energies</i> , 2019 , 12, 3632	3.1	5
6	Influence of natural weather variability on the thermal characterisation of a building envelope. <i>Applied Energy</i> , 2021 , 288, 116582	10.7	2
5	Bayesian Inference of Dwellings Energy Signature at National Scale: Case of the French Residential Stock. <i>Energies</i> , 2021 , 14, 5651	3.1	1
4	Identification of Envelope Hygrothermal Properties Based on In-situ Sensor Measurements and Stochastic Inverse Methods. <i>Energy Procedia</i> , 2015 , 78, 943-948	2.3	
3	Unsteady nodal modeling of building ventilation networks. <i>Building and Environment</i> , 2022 , 209, 1086716.5		
2	Bayesian Workflow and Hidden Markov Energy-Signature Model for Measurement and Verification. <i>Energies</i> , 2022 , 15, 3534	3.1	

- 1 Design of a short perturbation method for on-site estimation of a building envelope thermal performance. *Energy and Buildings*, **2022**, 112211 7