Charles R Boardman

List of Publications by Year
in descending order

20	297	1040056 9	888059 17
papers	citations	h-index	g-index

22	22	22	266
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	Short hold times in dynamic vapor sorption measurements mischaracterize the equilibrium moisture content of wood. Wood Science and Technology, 2017, 51, 243-260.	3.2	54
2	Quantifying and reducing errors in equilibrium moisture content measurements with dynamic vapor sorption (DVS) experiments. Wood Science and Technology, 2018, 52, 909-927.	3.2	50
3	Phosphorylated lignin as a halogen-free flame retardant additive for epoxy composites. Green Materials, 2016, 4, 150-159.	2.1	26
4	The parallel exponential kinetics model is unfit to characterize moisture sorption kinetics in cellulosic materials. Cellulose, 2019, 26, 723-735.	4.9	20
5	Common sorption isotherm models are not physically valid for water in wood. Colloids and Surfaces A: Physicochemical and Engineering Aspects, 2021, 627, 127214.	4.7	20
6	Hygrothermal characterization and modeling of cross-laminated timber in the building envelope. Building and Environment, 2020, 177, 106866.	6.9	19
7	High Rayleigh number natural convection in partially divided air and water filled enclosures. International Journal of Heat and Mass Transfer, 1989, 32, 1671-1679.	4.8	16
8	Moisture storage and transport properties of preservative treated and untreated southern pine wood. Wood Material Science and Engineering, 2016, 11, 228-238.	2.3	12
9	Specific heat capacity of wildland foliar fuels to 434ÂÂ°C. Fuel, 2021, 292, 120396.	6.4	10
10	Basement radon entry and stack driven moisture infiltration reduced by active soil depressurization. Building and Environment, 2015, 85, 220-232.	6.9	9
11	Simple and accurate temperature correction for moisture pin calibrations in oriented strand board. Building and Environment, 2017, 112, 250-260.	6.9	9
12	EcoSmart Fire as Structure Ignition Model in Wildland Urban Interface: Predictions and Validations. Fire Technology, 2017, 53, 577-607.	3.0	9
13	Moisture transfer through the membrane of a cross-flow energy recovery ventilator: Measurement and simple data-driven modeling. Journal of Building Physics, 2015, 38, 389-418.	2.4	8
14	Comparison of the corrosion of fasteners embedded in wood measured in outdoor exposure with the predictions from a combined hygrothermal-corrosion model. Corrosion Science, 2016, 102, 178-185.	6.6	8
15	Improvements to Water Vapor Transmission and Capillary Absorption Measurements in Porous Materials. Journal of Testing and Evaluation, 2016, 44, 2396-2402.	0.7	8
16	Influence of Aperture Height and Width on Interzonal Natural Convection in a Full-Scale Air-Filled Enclosure. Journal of Solar Energy Engineering, Transactions of the ASME, 1989, 111, 278-285.	1.8	5
17	APPARATUS FOR GRAVIMETRIC MEASUREMENT OF MOISTURE SORPTION ISOTHERMS FOR 1-100 g SAMPLES IN PARALLEL. Wood and Fiber Science, 2018, 50, 244-253.	0.6	5
18	Treated and untreated foam core particleboards with intumescent veneer. Journal of Thermal Analysis and Calorimetry, 2013, 114, 979-987.	3.6	4

#	Article	IF	Citations
19	Improving the Accuracy of a Hygrothermal Model for Wood-Frame Walls: A Cold-Climate Study. Buildings, 2020, 10, 236.	3.1	4
20	Moisture Redistribution in Full-Scale Wood-Frame Wall Assemblies: Measurements and Engineering Approximation. Buildings, 2020, 10, 141.	3.1	1