

Franz Richter

List of Publications by Year in descending order

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Version: 2024-02-01

16
papers

461
citations

840776

11
h-index

940533

16
g-index

16
all docs

16
docs citations

16
times ranked

288
citing authors

#	ARTICLE	IF	CITATIONS
1	The effect of chemical composition on the charring of wood across scales. Proceedings of the Combustion Institute, 2019, 37, 4053-4061.	3.9	72
2	A multiscale model of wood pyrolysis in fire to study the roles of chemistry and heat transfer at the mesoscale. Combustion and Flame, 2020, 216, 316-325.	5.2	51
3	Pyrolysis kinetics and multi-objective inverse modelling of cellulose at the microscale. Fire Safety Journal, 2017, 91, 191-199.	3.1	49
4	Pyrolysis and spontaneous ignition of wood under transient irradiation: Experiments and a-priori predictions. Fire Safety Journal, 2017, 91, 218-225.	3.1	49
5	Role of optimisation method on kinetic inverse modelling of biomass pyrolysis at the microscale. Fuel, 2020, 262, 116251.	6.4	34
6	Autonomous kinetic modeling of biomass pyrolysis using chemical reaction neural networks. Combustion and Flame, 2022, 240, 111992.	5.2	32
7	A computational model to simulate self-heating ignition across scales, configurations, and coal origins. Fuel, 2019, 236, 1100-1109.	6.4	31
8	Heterogeneous kinetics of timber charring at the microscale. Journal of Analytical and Applied Pyrolysis, 2019, 138, 1-9.	5.5	29
9	The Role of Heat Transfer Limitations in Polymer Pyrolysis at the Microscale. Frontiers in Mechanical Engineering, 2018, 4, .	1.8	27
10	Effect of oxygen on the burning rate of wood. Combustion and Flame, 2021, 234, 111591.	5.2	26
11	Reduced chemical kinetics for microscale pyrolysis of softwood and hardwood. Bioresource Technology, 2020, 301, 122619.	9.6	19
12	Thermal Response of Timber Slabs Exposed to Travelling Fires and Traditional Design Fires. Fire Technology, 2021, 57, 393-414.	3.0	14
13	A multi-step reaction scheme to simulate self-heating ignition of coal: Effects of oxygen adsorption and smoldering combustion. Proceedings of the Combustion Institute, 2021, 38, 4717-4725.	3.9	12
14	Ignition and Burning of Fibreboard Exposed to Transient Irradiation. Fire Technology, 2021, 57, 1095-1113.	3.0	6
15	Wind Effects on Smoldering Behavior of Simulated Wildland Fuels. Combustion Science and Technology, 2023, 195, 3212-3229.	2.3	5
16	The Propensity of Wooden Crevices to Smoldering Ignition by Firebrands. Fire Technology, 2022, 58, 2167-2188.	3.0	5