Franz Richter

List of Publications by Year
in descending order

16	461	840776 11	940533 16
papers	citations	h-index	g-index

16	16	16	288
all docs	docs citations	times ranked	citing authors

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