

# Kuang-Chung Tsai

## List of Publications by Year in descending order

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Version: 2024-02-01

22  
papers

667  
citations

687363

13  
h-index

677142

22  
g-index

22  
all docs

22  
docs citations

22  
times ranked

529  
citing authors

#	ARTICLE	IF	CITATIONS
1	Effect of vehicular blockage on critical ventilation velocity and tunnel fire behavior in longitudinally ventilated tunnels. <i>Fire Safety Journal</i> , 2012, 53, 35-42.	3.1	103
2	Orientation effect on cone calorimeter test results to assess fire hazard of materials. <i>Journal of Hazardous Materials</i> , 2009, 172, 763-772.	12.4	83
3	Critical ventilation velocity for multi-source tunnel fires. <i>Journal of Wind Engineering and Industrial Aerodynamics</i> , 2010, 98, 650-660.	3.9	75
4	Width effect on upward flame spread. <i>Fire Safety Journal</i> , 2009, 44, 962-967.	3.1	64
5	Influence of sidewalls on width effects of upward flame spread. <i>Fire Safety Journal</i> , 2011, 46, 294-304.	3.1	53
6	Preparation of expandable graphite using a hydrothermal method and flame-retardant properties of its halogen-free flame-retardant HDPE composites. <i>Journal of Polymer Research</i> , 2011, 18, 483-488.	2.4	35
7	Critical ventilation velocity for tunnel fires occurring near tunnel exits. <i>Fire Safety Journal</i> , 2011, 46, 556-557.	3.1	33
8	Effects of intumescent formulation for acrylic-based coating on flame-retardancy of painted red lauan ( <i>Parashorea</i> spp.) thin plywood. <i>Wood Science and Technology</i> , 2008, 42, 593-607.	3.2	30
9	Study on thermal degradation and flame retardant property of halogen-free polypropylene composites using XPS and cone calorimeter. <i>Journal of Applied Polymer Science</i> , 2013, 127, 1084-1091.	2.6	30
10	Preparation of expandable graphite via $H_2O_2$ -hydrothermal process and its effect on properties of high-density polyethylene composites. <i>Polymer Composites</i> , 2012, 33, 872-880.	4.6	25
11	Effects of adding organo-clays for acrylic-based intumescent coating on fire-retardancy of painted thin plywood. <i>Applied Clay Science</i> , 2011, 53, 709-715.	5.2	22
12	Experimental study of fuel sootiness effects on flashover. <i>Journal of Hazardous Materials</i> , 2010, 178, 123-129.	12.4	14
13	Using cone calorimeter data for the prediction of upward flame spread rate. <i>Journal of Thermal Analysis and Calorimetry</i> , 2013, 112, 1601-1606.	3.6	14
14	Effect of pool fire scale of heavy fuel oil on the characteristics of PAH emissions. <i>Fuel</i> , 2019, 235, 933-943.	6.4	13
15	Preparation of expandable graphite and its flame retardant properties in HDPE composites. <i>Polymer Composites</i> , 2017, 38, 2378-2386.	4.6	12
16	Impact of the intumescent formulation of styrene acrylic-based coatings on the fire performance of thin painted red lauan ( <i>Parashorea</i> spp.) plywood. <i>European Journal of Wood and Wood Products</i> , 2009, 67, 407.	2.9	11
17	Computational analysis on the performance of smoke exhaust systems in small vestibules of high-rise buildings. <i>Journal of Building Performance Simulation</i> , 2015, 8, 239-252.	2.0	11
18	Synthesis, characterization, and properties of silane-functionalized expandable graphite composites. <i>Journal of Composite Materials</i> , 2012, 46, 1483-1496.	2.4	10

#	ARTICLE	IF	CITATIONS
19	Fire retardancy and CO/CO <sub>2</sub> emission of intumescent coatings on thin plywood panel with waterborne vinyl acetate-acrylic resin. <i>Wood Science and Technology</i> , 2013, 47, 353-367.	3.2	9
20	Influence of substrate on fire performance of wall lining materials. <i>Construction and Building Materials</i> , 2009, 23, 3258-3263.	7.2	8
21	Impact of wetting and drying cycle treatment of intumescent coatings on the fire performance of thin painted red lauan ( <i>Parashorea</i> sp.) plywood. <i>Journal of Wood Science</i> , 2010, 56, 208-215.	1.9	7
22	Clarifying the mechanism of flashover from the view of unburned fuel volatiles and secondary fuels. <i>Proceedings of the Combustion Institute</i> , 2011, 33, 2649-2656.	3.9	5