

Xin Kang

List of Publications by Year in descending order

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17
papers

558
citations

840585

11
h-index

887953

17
g-index

17
all docs

17
docs citations

17
times ranked

314
citing authors

#	ARTICLE	IF	CITATIONS
1	Computational investigations of heat transfer to supercritical CO ₂ in a large horizontal tube. <i>Energy Conversion and Management</i> , 2018, 157, 536-548.	4.4	81
2	Experimental investigation of flame stability limits of a mesoscale combustor with thermally orthotropic walls. <i>Applied Thermal Engineering</i> , 2015, 85, 234-242.	3.0	79
3	Suppression of instabilities in a premixed methane-air flame in a narrow channel via hydrogen/carbon monoxide addition. <i>Combustion and Flame</i> , 2016, 173, 266-275.	2.8	75
4	Modeling of CaCO ₃ decomposition under CO ₂ /H ₂ O atmosphere in calcium looping processes. <i>Fuel Processing Technology</i> , 2014, 125, 125-138.	3.7	55
5	Experimental demonstration of a novel approach to increase power conversion potential of a hydrocarbon fuelled, portable, thermophotovoltaic system. <i>Energy Conversion and Management</i> , 2017, 133, 127-137.	4.4	54
6	Numerical study on cooling heat transfer of turbulent supercritical CO ₂ in large horizontal tubes. <i>International Journal of Heat and Mass Transfer</i> , 2018, 126, 1002-1019.	2.5	53
7	A computationally derived heat transfer correlation for in-tube cooling turbulent supercritical CO ₂ . <i>International Journal of Thermal Sciences</i> , 2019, 138, 190-205.	2.6	34
8	On the influence of modelling choices on combustion in narrow channels. <i>Computers and Fluids</i> , 2017, 144, 117-136.	1.3	25
9	A numerical investigation on the thermo-chemical structures of methane-oxygen diffusion flame-streets in a microchannel. <i>Combustion and Flame</i> , 2019, 206, 266-281.	2.8	23
10	Numerical study of the effect of wall temperature profiles on the premixed methane-air flame dynamics in a narrow channel. <i>RSC Advances</i> , 2017, 7, 39940-39954.	1.7	22
11	Computational investigations on convective flow and heat transfer of turbulent supercritical CO ₂ cooled in large inclined tubes. <i>Applied Thermal Engineering</i> , 2019, 159, 113922.	3.0	20
12	A numerical study on premixed hydrogen/air flames in a narrow channel with thermally orthotropic walls. <i>International Journal of Hydrogen Energy</i> , 2020, 45, 20436-20448.	3.8	11
13	Numerical study of reactive pollutants diffusion in urban street canyons with a viaduct. <i>Building Simulation</i> , 2022, 15, 1227-1241.	3.0	9
14	Numerical investigations on the methane-oxygen diffusion flame-street phenomena in a microchannel: Effects of wall temperatures, inflow rates and global equivalence ratios on flame behaviors and combustion performances. <i>Energy</i> , 2020, 207, 118194.	4.5	8
15	A Versatile Numerical Tool for Simulating Combustion Features at Small-Scales. <i>Journal of Thermal Science</i> , 2021, 30, 343-361.	0.9	4
16	Transient process of methane-oxygen diffusion flame-street establishment in a microchannel. <i>Frontiers in Energy</i> , 2022, 16, 988-999.	1.2	3
17	Experimental Investigations on Non-premixed Methane-air Flames in Radial Microchannels with a Controlled Temperature Profile. <i>Combustion Science and Technology</i> , 2022, 194, 3318-3339.	1.2	2