Ivan D TomanoviÄ

List of Publications by Year
in descending order

24	279	1163117 8	888059 17
papers	citations	h-index	g-index

24	24	24	195
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	Numerical prediction of processes for clean and efficient combustion of pulverized coal in power plants. Applied Thermal Engineering, 2015, 74, 102-110.	6.0	57
2	Numerical study of pulverized coal-fired utility boiler over a wide range of operating conditions for in-furnace SO2/NOx reduction. Applied Thermal Engineering, 2016, 94, 657-669.	6.0	43
3	Numerical Analysis of NO_x Control by Combustion Modifications in Pulverized Coal Utility Boiler. Energy & Fuels, 2012, 26, 425-442.	5.1	40
4	Full-scale CFD investigation of gas-particle flow, interactions and combustion in tangentially fired pulverized coal furnace. Energy, 2019, 179, 1036-1053.	8.8	27
5	Mathematical modelling and optimisation of lignite and wheat straw co-combustion in 350 MWe boiler furnace. Applied Energy, 2020, 260, 114206.	10.1	21
6	Numerical study of co-firing lignite and agricultural biomass in utility boiler under variable operation conditions. International Journal of Heat and Mass Transfer, 2021, 181, 121728.	4.8	21
7	Effects of flue gas recirculation on combustion and heat flux distribution in 660ÂMW double-reheat tower-type boiler. Fuel, 2022, 321, 123988.	6.4	15
8	Specific aspects of turbulent flow in rectangular ducts. Thermal Science, 2017, 21, 663-678.	1.1	8
9	Development of mathematical model for co-firing pulverized coal and biomass in experimental furnace. Thermal Science, 2018, 22, 709-719.	1.1	8
10	Modeling of calcium-based sorbent reactions with sulfur dioxide. Journal of the Serbian Chemical Society, 2015, 80, 549-562.	0.8	4
11	Weighted sum of gray gases model optimization for numerical investigations of processes inside pulverized coal-fired furnaces. Journal of Thermal Science, 2017, 26, 552-559.	1.9	4
12	Numerical modeling of in-furnace sulfur removal by sorbent injection during pulverized lignite combustion. International Journal of Heat and Mass Transfer, 2019, 128, 98-114.	4.8	4
13	New application method of the zonal model for simulations of pulverized coal-fired furnaces based on correction of total exchange areas. International Journal of Heat and Mass Transfer, 2020, 149, 119192.	4.8	4
14	Modeling and optimization of processes for clean and efficient pulverized coal combustion in utility boilers. Thermal Science, 2016, 20, 183-196.	1.1	4
15	Modeling of pulverized coal combustion for in-furnace NOx reduction and flame control. Thermal Science, 2017, 21, 597-615.	1.1	4
16	Numerical Investigation on Cofiring Characteristics of Biomass Syngas and Coal in a 660-MW Tower Boiler. Journal of Energy Engineering - ASCE, 2022, 148, .	1.9	4
17	Numerical investigation on H₂S formation characteristics in air-staging combustion of a tangentially coal-fired boiler. Energy Sources, Part A: Recovery, Utilization and Environmental Effects, 2022, 44, 1854-1863.	2.3	3
18	Numerical study on combustion characteristics and heat flux distributions of 660â€MW ultraâ€supercritical doubleâ€reheat towerâ€type boiler. Asia-Pacific Journal of Chemical Engineering, 2021, 16, e2631.	1.5	2

#	Article	IF	Citations
19	Nucleate pool boiling heat transfer: Review of models and bubble dynamics parameters. Thermal Science, 2022, 26, 157-174.	1.1	2
20	Numerical tracking of sorbent particles and distribution during gas desulfurization in pulverized coal-fired furnace. Thermal Science, 2017, 21, 759-769.	1.1	2
21	DETERMINATION OF THE WALL VARIABLES WITHIN THE ZONAL MODEL OF RADIATION INSIDE A PULVERIZED COAL-FIRED FURNACE. Facta Universitatis, Series: Mechanical Engineering, 2018, 16, 219.	4.6	1
22	Influence of the gray gases number in the weighted sum of gray gases model on the radiative heat exchange calculation inside pulverized coal-fired furnaces. Thermal Science, 2016, 20, 197-206.	1.1	1
23	Derivation of transport equations for three-dimensional non-isothermal turbulent flow in cylindrical coordinates. Termotehnika, 2016, 42, 1-24.	0.0	0
24	Calcium based sorbent calcination and sintering reaction models overview. Hemijska Industrija, 2018, 72, 329-339.	0.7	0