Srdjan V BeloÅ¡eviÄ

List of Publications by Year
in descending order

50 papers	640 citations	623734 14 h-index	610901 24 g-index
50 all docs	50 docs citations	50 times ranked	388 citing authors

#	Article	IF	Citations
1	Three-dimensional modeling of utility boiler pulverized coal tangentially fired furnace. International Journal of Heat and Mass Transfer, 2006, 49, 3371-3378.	4.8	86
2	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
3	A numerical study of a utility boiler tangentially-fired furnace under different operating conditions. Fuel, 2008, 87, 3331-3338.	6.4	53
4	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
5	Numerical Analysis of NO_x Control by Combustion Modifications in Pulverized Coal Utility Boiler. Energy & Fuels, 2012, 26, 425-442.	5.1	40
6	A numerical study of pulverized coal ignition by means of plasma torches in airâ€“coal dust mixture ducts of utility boiler furnaces. International Journal of Heat and Mass Transfer, 2008, 51, 1970-1978.	4.8	33
7	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
8	Numerical investigation of processes in the lignite-fired furnace when simple gray gas and weighted sum of gray gases models are used. International Journal of Heat and Mass Transfer, 2013, 56, 197-205.	4.8	26
9	Numerical Prediction of Pulverized Coal Flame in Utility Boiler Furnaces. Energy & Fuels, 2009, 23, 5401-5412.	5.1	25
10	Mathematical modelling and optimisation of lignite and wheat straw co-combustion in 350 MWe boiler furnace. Applied Energy, 2020, 260, 114206.	10.1	21
11	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
12	Mapping the potential for decentralized energy generation based on RES in Western Balkans. Thermal Science, 2007, 11, 7-26.	1.1	21
13	Assessing the impact of primary measures for NOx reduction on the thermal power plant steam boiler. Applied Thermal Engineering, 2015, 78, 397-409.	6.0	19
14	Simulation of free turbulent particle-laden jet using Reynolds-stress gas turbulence model. Applied Mathematical Modelling, 2007, 31, 1001-1014.	4.2	18
15	Predicting effects of air staging application on existing coal-fired power steam boiler. Applied Thermal Engineering, 2019, 149, 665-677.	6.0	15
16	Radiative heat exchange inside the pulverized lignite fired furnace for the gray radiative properties with thermal equilibrium between phases. International Journal of Thermal Sciences, 2014, 85, 21-28.	4.9	12
17	Influence of forward scattering on prediction of temperature and radiation fields inside the pulverized coal furnace. Energy, 2012, 45, 160-168.	8.8	11
18	Experimental and numerical investigation of heat exchanger built in solid fuel household furnace of an original concept. Energy and Buildings, 2005, 37, 325-331.	6.7	8

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19	A computer code for the prediction of mill gases and hot air distribution between burnersâ€™ sections at the utility boiler. Applied Thermal Engineering, 2008, 28, 2178-2186.	6.0	8
20	Specific aspects of turbulent flow in rectangular ducts. Thermal Science, 2017, 21, 663-678.	1.1	8
21	Development of mathematical model for co-firing pulverized coal and biomass in experimental furnace. Thermal Science, 2018, 22, 709-719.	1.1	8
22	Computational fluid dynamics technique as a tool for description of the phenomena occurring in pulverized coal combustion systems. Proceedings of the Institution of Mechanical Engineers, Part A: Journal of Power and Energy, 2007, 221, 399-409.	1.4	7
23	Numerical model of gaseous fuel jet injection into a fluidized furnace. International Journal of Heat and Mass Transfer, 2009, 52, 3427-3438.	4.8	7
24	Influence of application of Hottelâ€™s zonal model and six-flux model of thermal radiation on numerical simulations results of pulverized coal fired furnace. Thermal Science, 2012, 16, 271-282.	1.1	6
25	Possibilities for reconstruction of existing steam boilers for the purpose of using exhaust gases from 14ÂMW or 17ÂMW gas turbine. Applied Thermal Engineering, 2013, 56, 83-90.	6.0	6
26	Modeling Approaches to Predict Biomass Co-firing with Pulverized Coal. The Open Thermodynamics Journal, 2010, 4, 50-70.	0.6	6
27	Modeling of calcium-based sorbent reactions with sulfur dioxide. Journal of the Serbian Chemical Society, 2015, 80, 549-562.	0.8	4
28	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
29	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
30	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
31	Modeling and optimization of processes for clean and efficient pulverized coal combustion in utility boilers. Thermal Science, 2016, 20, 183-196.	1.1	4
32	Modeling of pulverized coal combustion for in-furnace NOx reduction and flame control. Thermal Science, 2017, 21, 597-615.	1.1	4
33	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
34	Effects of air excess control in a heat storage solid fuel-fired household furnace. Applied Thermal Engineering, 2007, 27, 2243-2251.	6.0	3
35	Modeling of pulverized coal combustion stabilization by means of plasma torches. Thermal Science, 2005, 9, 57-72.	1.1	3
36	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

#	ARTICLE	IF	CITATIONS
37	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
38	Nucleate pool boiling heat transfer: Review of models and bubble dynamics parameters. Thermal Science, 2022, 26, 157-174.	1.1	2
39	Numerical tracking of sorbent particles and distribution during gas desulfurization in pulverized coal-fired furnace. Thermal Science, 2017, 21, 759-769.	1.1	2
40	Review of the investigations of pulverized coal combustion processes in large power plants in laboratory for thermal engineering and energy: Part A. Thermal Science, 2019, 23, 1587-1609.	1.1	2
41	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
42	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
43	Air staging application effects on overall steam boiler operation. Thermal Science, 2019, 23, 1559-1574.	1.1	1
44	Properties and efficiency of a Pt/Al2O3 catalyst applied in a solid fuel thermo-accumulating furnace. Journal of the Serbian Chemical Society, 2007, 72, 869-878.	0.8	0
45	Turbulence Modelling of Swirling Flow in a Long Straight Circular Pipe. , 2004, , .		0
46	Reduction of carbon monoxide emission from a solid-fuel thermo-accumulation furnace. Thermal Science, 2006, 10, 107-119.	1.1	0
47	Evaluation and limitations of standard wall functions in channel and step flow configurations. Journal of the Serbian Society for Computational Mechanics, 2014, 8, 1-22.	0.4	0
48	Derivation of transport equations for three-dimensional non-isothermal turbulent flow in cylindrical coordinates. Termotehnika, 2016, 42, 1-24.	0.0	0
49	Calcium based sorbent calcination and sintering reaction models overview. Hemijska Industrija, 2018, 72, 329-339.	0.7	0
50	Prediction of calcination and sulphation along the sorbent particle trajectories for desulphurisation in coal-fired furnace. International Journal of Global Warming, 2020, 22, 459.	0.5	0