

# Nenad Dj CrnomarkoviÄ

## List of Publications by Year in descending order

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Version: 2024-02-01

28  
papers

415  
citations

840776

11  
h-index

752698

20  
g-index

28  
all docs

28  
docs citations

28  
times ranked

296  
citing authors

#	ARTICLE	IF	CITATIONS
1	Experimental investigation of role of steam in entrained flow coal gasification. <i>Fuel</i> , 2007, 86, 194-202.	6.4	56
2	A numerical study of a utility boiler tangentially-fired furnace under different operating conditions. <i>Fuel</i> , 2008, 87, 3331-3338.	6.4	53
3	Numerical study of pulverized coal-fired utility boiler over a wide range of operating conditions for in-furnace SO <sub>2</sub> /NO <sub>x</sub> reduction. <i>Applied Thermal Engineering</i> , 2016, 94, 657-669.	6.0	43
4	Numerical Analysis of NO <sub>x</sub> Control by Combustion Modifications in Pulverized Coal Utility Boiler. <i>Energy &amp; Fuels</i> , 2012, 26, 425-442.	5.1	40
5	Experimental and numerical investigation of gaseous fuel combustion in swirl chamber. <i>International Journal of Heat and Mass Transfer</i> , 2005, 48, 4623-4632.	4.8	29
6	Full-scale CFD investigation of gas-particle flow, interactions and combustion in tangentially fired pulverized coal furnace. <i>Energy</i> , 2019, 179, 1036-1053.	8.8	27
7	Numerical investigation of processes in the lignite-fired furnace when simple gray gas and weighted sum of gray gases models are used. <i>International Journal of Heat and Mass Transfer</i> , 2013, 56, 197-205.	4.8	26
8	Numerical Prediction of Pulverized Coal Flame in Utility Boiler Furnaces. <i>Energy &amp; Fuels</i> , 2009, 23, 5401-5412.	5.1	25
9	Mathematical modelling and optimisation of lignite and wheat straw co-combustion in 350 MWe boiler furnace. <i>Applied Energy</i> , 2020, 260, 114206.	10.1	21
10	Numerical study of co-firing lignite and agricultural biomass in utility boiler under variable operation conditions. <i>International Journal of Heat and Mass Transfer</i> , 2021, 181, 121728.	4.8	21
11	Radiative heat exchange inside the pulverized lignite fired furnace for the gray radiative properties with thermal equilibrium between phases. <i>International Journal of Thermal Sciences</i> , 2014, 85, 21-28.	4.9	12
12	Influence of forward scattering on prediction of temperature and radiation fields inside the pulverized coal furnace. <i>Energy</i> , 2012, 45, 160-168.	8.8	11
13	Specific aspects of turbulent flow in rectangular ducts. <i>Thermal Science</i> , 2017, 21, 663-678.	1.1	8
14	Development of mathematical model for co-firing pulverized coal and biomass in experimental furnace. <i>Thermal Science</i> , 2018, 22, 709-719.	1.1	8
15	Influence of application of Hottel's zonal model and six-flux model of thermal radiation on numerical simulations results of pulverized coal fired furnace. <i>Thermal Science</i> , 2012, 16, 271-282.	1.1	6
16	Weighted sum of gray gases model optimization for numerical investigations of processes inside pulverized coal-fired furnaces. <i>Journal of Thermal Science</i> , 2017, 26, 552-559.	1.9	4
17	Numerical modeling of in-furnace sulfur removal by sorbent injection during pulverized lignite combustion. <i>International Journal of Heat and Mass Transfer</i> , 2019, 128, 98-114.	4.8	4
18	New application method of the zonal model for simulations of pulverized coal-fired furnaces based on correction of total exchange areas. <i>International Journal of Heat and Mass Transfer</i> , 2020, 149, 119192.	4.8	4

#	ARTICLE	IF	CITATIONS
19	Modeling and optimization of processes for clean and efficient pulverized coal combustion in utility boilers. <i>Thermal Science</i> , 2016, 20, 183-196.	1.1	4
20	Modeling of pulverized coal combustion for in-furnace NO <sub>x</sub> reduction and flame control. <i>Thermal Science</i> , 2017, 21, 597-615.	1.1	4
21	Nucleate pool boiling heat transfer: Review of models and bubble dynamics parameters. <i>Thermal Science</i> , 2022, 26, 157-174.	1.1	2
22	Numerical tracking of sorbent particles and distribution during gas desulfurization in pulverized coal-fired furnace. <i>Thermal Science</i> , 2017, 21, 759-769.	1.1	2
23	Review of the investigations of pulverized coal combustion processes in large power plants in laboratory for thermal engineering and energy: Part A. <i>Thermal Science</i> , 2019, 23, 1587-1609.	1.1	2
24	DETERMINATION OF THE WALL VARIABLES WITHIN THE ZONAL MODEL OF RADIATION INSIDE A PULVERIZED COAL-FIRED FURNACE. <i>Facta Universitatis, Series: Mechanical Engineering</i> , 2018, 16, 219.	4.6	1
25	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. <i>Thermal Science</i> , 2016, 20, 197-206.	1.1	1
26	Air staging application effects on overall steam boiler operation. <i>Thermal Science</i> , 2019, 23, 1559-1574.	1.1	1
27	Calcium based sorbent calcination and sintering reaction models overview. <i>Hemijaska Industrija</i> , 2018, 72, 329-339.	0.7	0
28	Prediction of calcination and sulphation along the sorbent particle trajectories for desulphurisation in coal-fired furnace. <i>International Journal of Global Warming</i> , 2020, 22, 459.	0.5	0