

# Milan VujanoviÄ

## List of Publications by Year in descending order

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Version: 2024-02-01

57  
papers

2,086  
citations

172457

29  
h-index

243625

44  
g-index

57  
all docs

57  
docs citations

57  
times ranked

1986  
citing authors

#	ARTICLE	IF	CITATIONS
1	Reducing greenhouse gasses emissions by fostering the deployment of alternative raw materials and energy sources in the cleaner cement manufacturing process. <i>Journal of Cleaner Production</i> , 2016, 136, 119-132.	9.3	257
2	Synergetic effect of sewage sludge and biomass co-pyrolysis: A combined study in thermogravimetric analyzer and a fixed bed reactor. <i>Energy Conversion and Management</i> , 2016, 118, 399-405.	9.2	138
3	Synergistic effects during co-pyrolysis of biomass and plastic: Gas, tar, soot, char products and thermogravimetric study. <i>Journal of the Energy Institute</i> , 2019, 92, 108-117.	5.3	115
4	Reducing the CO <sub>2</sub> emissions in Croatian cement industry. <i>Applied Energy</i> , 2013, 101, 41-48.	10.1	94
5	Environmental assessment of different cement manufacturing processes based on Energy and Ecological Footprint analysis. <i>Journal of Cleaner Production</i> , 2016, 130, 213-221.	9.3	82
6	Effect of potassium-doping and oxygen concentration on soot oxidation in O <sub>2</sub> /CO <sub>2</sub> atmosphere: A kinetics study by thermogravimetric analysis. <i>Energy Conversion and Management</i> , 2017, 149, 686-697.	9.2	68
7	Improving the removal of particles and trace elements from coal-fired power plants by combining a wet phase transition agglomerator with wet electrostatic precipitator. <i>Journal of Cleaner Production</i> , 2017, 161, 1459-1465.	9.3	68
8	Numerical modelling of calcination reaction mechanism for cement production. <i>Chemical Engineering Science</i> , 2012, 69, 607-615.	3.8	57
9	Towards a more sustainable transport sector by numerically simulating fuel spray and pollutant formation in diesel engines. <i>Journal of Cleaner Production</i> , 2015, 88, 272-279.	9.3	57
10	The application of CFD modelling to support the reduction of CO <sub>2</sub> emissions in cement industry. <i>Energy</i> , 2012, 45, 464-473.	8.8	51
11	Numerical modelling of diesel spray using the Eulerian multiphase approach. <i>Energy Conversion and Management</i> , 2015, 104, 160-169.	9.2	49
12	Numerical simulation of urea based selective non-catalytic reduction deNO <sub>x</sub> process for industrial applications. <i>Energy Conversion and Management</i> , 2016, 125, 59-69.	9.2	47
13	Sustainable development of energy, water and environment systems for future energy technologies and concepts. <i>Energy Conversion and Management</i> , 2016, 125, 1-14.	9.2	46
14	Numerical study of co-firing pulverized coal and biomass inside a cement calciner. <i>Waste Management and Research</i> , 2014, 32, 661-669.	3.9	45
15	Modelling pollutant emissions in diesel engines, influence of biofuel on pollutant formation. <i>Journal of Environmental Management</i> , 2017, 203, 1038-1046.	7.8	43
16	Integrated approach for sustainable development of energy, water and environment systems. <i>Energy Conversion and Management</i> , 2018, 159, 398-412.	9.2	43
17	Low NO combustion and SCR flow field optimization in a low volatile coal fired boiler. <i>Journal of Environmental Management</i> , 2018, 220, 30-35.	7.8	40
18	A kinetic study on the catalysis of KCl, K <sub>2</sub> SO <sub>4</sub> , and K <sub>2</sub> CO <sub>3</sub> during oxy-biomass combustion. <i>Journal of Environmental Management</i> , 2018, 218, 50-58.	7.8	39

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19	Improving the sustainability of cement production by using numerical simulation of limestone thermal degradation and pulverized coal combustion in a cement calciner. <i>Journal of Cleaner Production</i> , 2015, 88, 262-271.	9.3	38
20	Large eddy simulation of a two-phase reacting swirl flow inside a cement cyclone. <i>Energy</i> , 2014, 75, 89-96.	8.8	36
21	Analysis of slab heating characteristics in a reheating furnace. <i>Energy Conversion and Management</i> , 2017, 149, 928-936.	9.2	36
22	Soot formation during polyurethane (PU) plastic pyrolysis: The effects of temperature and volatile residence time. <i>Energy Conversion and Management</i> , 2018, 164, 353-362.	9.2	35
23	Numerical analysis of cement calciner fuel efficiency and pollutant emissions. <i>Clean Technologies and Environmental Policy</i> , 2013, 15, 489-499.	4.1	34
24	Numerical evaluation of different pulverized coal and solid recovered fuel co-firing modes inside a large-scale cement calciner. <i>Applied Energy</i> , 2016, 184, 1292-1305.	10.1	34
25	Modelling of spray and combustion processes by using the Eulerian multiphase approach and detailed chemical kinetics. <i>Fuel</i> , 2017, 191, 25-35.	6.4	34
26	Modelling spray and combustion processes in diesel engine by using the coupled Eulerian-Eulerian and Eulerian-Lagrangian method. <i>Energy Conversion and Management</i> , 2016, 125, 15-25.	9.2	33
27	Experimental and numerical investigation of injection timing and rail pressure impact on combustion characteristics of a diesel engine. <i>Energy Conversion and Management</i> , 2019, 185, 730-739.	9.2	33
28	Numerical modeling of urea water based selective catalytic reduction for mitigation of NOx from transport sector. <i>Journal of Cleaner Production</i> , 2015, 88, 280-288.	9.3	32
29	Synergistic effect of biomass and polyurethane waste co-pyrolysis on soot formation at high temperatures. <i>Journal of Environmental Management</i> , 2019, 239, 306-315.	7.8	32
30	Study of advanced engine operating strategies on a turbocharged diesel engine by using coupled numerical approaches. <i>Energy Conversion and Management</i> , 2018, 171, 1-11.	9.2	31
31	Numerical modelling of sulfur dioxide absorption for spray scrubbing. <i>Energy Conversion and Management</i> , 2020, 217, 112762.	9.2	28
32	Numerical modelling of emissions of nitrogen oxides in solid fuel combustion. <i>Journal of Environmental Management</i> , 2018, 215, 177-184.	7.8	27
33	Experimental and modeling study of the long cylindrical oily sludge drying process. <i>Applied Thermal Engineering</i> , 2015, 91, 354-362.	6.0	23
34	Numerical analysis of ammonia homogenization for selective catalytic reduction application. <i>Journal of Environmental Management</i> , 2017, 203, 1047-1061.	7.8	23
35	Numerical analysis of fuel injection configuration on nitrogen oxides formation in a jet engine combustion chamber. <i>Energy Conversion and Management</i> , 2020, 220, 112862.	9.2	22
36	Development of wet phase transition agglomerator for multi-pollutant synergistic removal. <i>Applied Thermal Engineering</i> , 2018, 130, 1208-1214.	6.0	20

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37	Sustainable energy technologies and environmental impacts of energy systems. <i>Applied Energy</i> , 2019, 256, 113919.	10.1	19
38	Validation of reduced mechanisms for nitrogen chemistry in numerical simulation of a turbulent non-premixed flame. <i>Reaction Kinetics and Catalysis Letters</i> , 2009, 96, 125-138.	0.6	18
39	Development and Validation of 3D-CFD Injection and Combustion Models for Dual Fuel Combustion in Diesel Ignited Large Gas Engines. <i>Energies</i> , 2018, 11, 643.	3.1	17
40	Experimental and kinetics study on SO <sub>3</sub> catalytic formation by Fe <sub>2</sub> O <sub>3</sub> in oxy-combustion. <i>Journal of Environmental Management</i> , 2019, 236, 420-427.	7.8	17
41	Effects of deposition height and width on film cooling. <i>Numerical Heat Transfer; Part A: Applications</i> , 2016, 70, 673-687.	2.1	16
42	The improved heat integration of cement production under limited process conditions: A case study for Croatia. <i>Applied Thermal Engineering</i> , 2016, 105, 839-848.	6.0	16
43	Two-phase flow simulation of mist film cooling with deposition for various boundary conditions. <i>Numerical Heat Transfer; Part A: Applications</i> , 2017, 71, 895-909.	2.1	14
44	Numerical assessment of radiative heat transfer impact on pollutant formation processes in a compression ignition engine. <i>Journal of Cleaner Production</i> , 2020, 275, 123087.	9.3	12
45	Decrease of high-carbon-ash landfilling by its Co-firing inside a cement calciner. <i>Journal of Cleaner Production</i> , 2021, 293, 126090.	9.3	10
46	Numerical modeling of spray secondary atomization with the Euler-Eulerian multi-fluid approach. <i>Computers and Fluids</i> , 2021, 222, 104919.	2.5	10
47	A review of multiphase flow and deposition effects in film-cooled gas turbines. <i>Thermal Science</i> , 2018, 22, 1905-1921.	1.1	7
48	Nano-Scale Soot Particle Formation During the High-Temperature Pyrolysis of Waste Plastics in an Entrained Flow Reactor. <i>Waste and Biomass Valorization</i> , 2019, 10, 3857-3866.	3.4	6
49	Numerical Investigations of Film Cooling and Particle Impact on the Blade Leading Edge. <i>Energies</i> , 2021, 14, 1102.	3.1	6
50	Assessment of radiative heat transfer impact on a temperature distribution inside a real industrial swirled furnace. <i>Thermal Science</i> , 2020, 24, 3663-3672.	1.1	6
51	Modelling study on the effect of ash fusion characteristics on the biomass slagging behavior. <i>Thermal Science</i> , 2018, 22, 2113-2121.	1.1	4
52	Numerical study on characteristics of combustion and pollutant formation in a reheating furnace. <i>Thermal Science</i> , 2018, 22, 2103-2112.	1.1	4
53	Coupling of Euler Eulerian and Euler Lagrangian Spray Methods with Chemistry Kinetics for Modeling of Reactive Flow and Pollutant Formation. , 2021, , .		4
54	Numerical analysis of sulfur dioxide absorption in water droplets. <i>Open Physics</i> , 2020, 18, 104-111.	1.7	3

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55	Advanced visions and problem-solving strategies across energy water and environment systems. Thermal Science, 2020, 24, 3453-3464.	1.1	3
56	A kinetic evaluation on NO <sub>2</sub> formation in the post-flame region of pressurized oxy-combustion process. Thermal Science, 2021, 25, 2609-2620.	1.1	2
57	Effect of HCl on a sorption of mercury from flue gas evolved during incineration of hospital waste using entrained flow adsorbers. Waste Management, 2022, 140, 74-80.	7.4	2