

Matjaz Hribersek

List of Publications by Year in Descending Order

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The third column is the impact factor (IF) of the journal, and the fourth column is the number of citations of the article.

33
papers

283
citations

10
h-index

16
g-index

37
ext. papers

361
ext. citations

3.5
avg, IF

3.48
L-index

#	Paper	IF	Citations
33	A hybrid analytical-numerical model for calculating the maximum elastic force acting on a flow-driven elastic prolate spheroidal particle during its collision with a rigid wall. <i>Computational Mechanics</i> , 2022 , 69, 1021	4	0
32	A Model for Translation and Rotation Resistance Tensors for Superellipsoidal Particles in Stokes Flow. <i>Journal of Marine Science and Engineering</i> , 2022 , 10, 369	2.4	0
31	Can CFD establish a connection to a milder COVID-19 disease in younger people? Aerosol deposition in lungs of different age groups based on Lagrangian particle tracking in turbulent flow. <i>Computational Mechanics</i> , 2021 , 67, 1-17	4	5
30	Risk Assessment of Infection by Airborne Droplets and Aerosols at Different Levels of Cardiovascular Activity. <i>Archives of Computational Methods in Engineering</i> , 2021 , 28, 1-20	7.8	2
29	Numerical investigation of multiphase reactive processes using flamelet generated manifold approach and extended coherent flame combustion model. <i>Energy Conversion and Management</i> , 2021 , 240, 114261	10.6	7
28	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	10.6	10
27	Numerical analysis of sulfur dioxide absorption in water droplets. <i>Open Physics</i> , 2020 , 18, 104-111	1.3	1
26	Towards a unified shear-induced lift model for prolate spheroidal particles moving in arbitrary non-uniform flow. <i>Computers and Fluids</i> , 2020 , 196, 104323	2.8	2
25	Settling characteristics of nonspherical porous sludge flocs with nonhomogeneous mass distribution. <i>Water Research</i> , 2019 , 158, 159-170	12.5	13
24	A novel model for the lift force acting on a prolate spheroidal particle in arbitrary non-uniform flow. Part II. Lift force taking into account the non-streamwise flow shear. <i>International Journal of Multiphase Flow</i> , 2019 , 111, 232-240	3.6	4
23	A novel model for the lift force acting on a prolate spheroidal particle in an arbitrary non-uniform flow. Part I. Lift force due to the streamwise flow shear. <i>International Journal of Multiphase Flow</i> , 2018 , 104, 103-112	3.6	13
22	On Constitutive Models for the Momentum Transfer to Particles in Fluid-Dominated Two-Phase Flows. <i>Advanced Structured Materials</i> , 2018 , 1-25	0.6	4
21	Advanced CFD modelling of air and recycled flue gas staging in a waste wood-fired grate boiler for higher combustion efficiency and greater environmental benefits. <i>Journal of Environmental Management</i> , 2018 , 218, 200-208	7.9	20
20	Two-step validation process of particle mixing in a centrifugal mixer with vertical axis. <i>Proceedings of the Institution of Mechanical Engineers, Part E: Journal of Process Mechanical Engineering</i> , 2018 , 232, 29-37	1.5	1
19	Effects of controlled nucleation on freeze-drying lactose and mannitol aqueous solutions. <i>Drying Technology</i> , 2018 , 36, 1263-1272	2.6	7
18	Implementation of the Rosseland and the P1 Radiation Models in the System of Navier-Stokes Equations with the Boundary Element Method. <i>International Journal of Computational Methods and Experimental Measurements</i> , 2017 , 5, 348-358	1	6
17	Cooling analysis of a light emitting diode automotive fog lamp. <i>Thermal Science</i> , 2017 , 21, 757-766	1.2	1

16	Advanced modelling and testing of a 13 MWth waste wood-fired grate boiler with recycled flue gas. <i>Energy Conversion and Management</i> , 2016 , 125, 230-241	10.6	33
15	Lagrangian Particle Tracking in Velocity-Vorticity Resolved Viscous Flows by Subdomain BEM. <i>Journal of Applied Fluid Mechanics</i> , 2016 , 9, 1533-1549	1.5	3
14	Analysis of the Effect of the Swirl Flow Intensity on Combustion Characteristics in Liquid Fuel Powered Confined Swirling Flames. <i>Journal of Applied Fluid Mechanics</i> , 2016 , 9, 2359-2367	1.5	2
13	Visualisation of rotating stall in an axial flow fan. <i>Experimental Thermal and Fluid Science</i> , 2014 , 53, 269-276		12
12	Numerical simulation of immersion quenching process for cast aluminium part at different pool temperatures. <i>Applied Thermal Engineering</i> , 2014 , 65, 74-84	5.8	20
11	Flow Driven Analysis of a Darrieus Water Turbine. <i>Strojniski Vestnik/Journal of Mechanical Engineering</i> , 2014 , 60, 769-776	1.3	8
10	Numerical Investigations of Quenching Cooling Processes for Different Cast Aluminum Parts. <i>Strojniski Vestnik/Journal of Mechanical Engineering</i> , 2014 , 60, 571-580	1.3	1
9	Separation of magnetic particles in channel flows by BEM. <i>Proceedings in Applied Mathematics and Mechanics</i> , 2012 , 12, 475-476	0.2	
8	The Analysis of the Impact of Particles on Cavitation Flow Development. <i>Journal of Fluids Engineering, Transactions of the ASME</i> , 2011 , 133,	2.1	8
7	Numerical Simulations of Wind Induced Particle Contamination in Gypsum Landfill Surroundings. <i>Environmental Modeling and Assessment</i> , 2011 , 16, 479-489	2	1
6	Numerical simulation of particles movement in cellular flows under the influence of magnetic forces. <i>Proceedings in Applied Mathematics and Mechanics</i> , 2011 , 11, 573-574	0.2	
5	Natural convection of micropolar fluid in an enclosure with boundary element method. <i>Engineering Analysis With Boundary Elements</i> , 2009 , 33, 485-492	2.6	47
4	3-D boundary element-finite element method for velocity-vorticity formulation of the Navier-Stokes equations. <i>Engineering Analysis With Boundary Elements</i> , 2007 , 31, 259-266	2.6	16
3	A multidomain boundary element method for unsteady laminar flow using stream function-vorticity equations. <i>Engineering Analysis With Boundary Elements</i> , 2005 , 29, 1-14	2.6	29
2	Weakly coupled analysis of a blade in multiphase mixing vessel. <i>Proceedings in Applied Mathematics and Mechanics</i> , 2004 , 4, 378-379	0.2	
1	Preconditioned conjugate gradient methods for boundary-domain integral method. <i>Engineering Analysis With Boundary Elements</i> , 1993 , 12, 111-118	2.6	7