

Matjaz Hribersek

List of Publications by Year in descending order

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Version: 2024-02-01

36
papers

443
citations

758635

12
h-index

752256

20
g-index

37
all docs

37
docs citations

37
times ranked

343
citing authors

#	ARTICLE	IF	CITATIONS
1	Natural convection of micropolar fluid in an enclosure with boundary element method. <i>Engineering Analysis With Boundary Elements</i> , 2009, 33, 485-492.	2.0	55
2	Advanced modelling and testing of a 13 MW th waste wood-fired grate boiler with recycled flue gas. <i>Energy Conversion and Management</i> , 2016, 125, 230-241.	4.4	38
3	A multidomain boundary element method for unsteady laminar flow using stream function and vorticity equations. <i>Engineering Analysis With Boundary Elements</i> , 2005, 29, 1-14.	2.0	37
4	Numerical simulation of immersion quenching process for cast aluminium part at different pool temperatures. <i>Applied Thermal Engineering</i> , 2014, 65, 74-84.	3.0	32
5	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.	3.8	28
6	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, 1497-1513.	2.2	25
7	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.	4.4	22
8	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.	2.0	21
9	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.	1.6	21
10	Settling characteristics of nonspherical porous sludge flocs with nonhomogeneous mass distribution. <i>Water Research</i> , 2019, 158, 159-170.	5.3	21
11	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.	4.4	18
12	Visualisation of rotating stall in an axial flow fan. <i>Experimental Thermal and Fluid Science</i> , 2014, 53, 269-276.	1.5	16
13	The Analysis of the Impact of Particles on Cavitation Flow Development. <i>Journal of Fluids Engineering, Transactions of the ASME</i> , 2011, 133, .	0.8	12
14	Flow Driven Analysis of a Darrieus Water Turbine. <i>Strojniski Vestnik/Journal of Mechanical Engineering</i> , 2014, 60, 769-776.	0.6	10
15	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.	1.6	10
16	Effects of controlled nucleation on freeze-drying lactose and mannitol aqueous solutions. <i>Drying Technology</i> , 2018, 36, 1263-1272.	1.7	9
17	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, 4297-4316.	6.0	9
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.	0.1	8

#	ARTICLE	IF	CITATIONS
19	Preconditioned conjugate gradient methods for boundary-domain integral method. <i>Engineering Analysis With Boundary Elements</i> , 1993, 12, 111-118.	2.0	7
20	On Constitutive Models for the Momentum Transfer to Particles in Fluid-Dominated Two-Phase Flows. <i>Advanced Structured Materials</i> , 2018, , 1-25.	0.3	7
21	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.	0.4	7
22	Lagrangian Particle Tracking in Velocity-Vorticity Resolved Viscous Flows by Subdomain BEM. <i>Journal of Applied Fluid Mechanics</i> , 2016, 9, 1533-1549.	0.4	4
23	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.	1.2	4
24	Numerical Investigations of Quenching Cooling Processes for Different Cast Aluminum Parts. <i>Strojnikski Vestnik/Journal of Mechanical Engineering</i> , 2014, 60, 571-580.	0.6	3
25	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.	1.3	3
26	Numerical analysis of sulfur dioxide absorption in water droplets. <i>Open Physics</i> , 2020, 18, 104-111.	0.8	3
27	Numerical Simulations of Wind Induced Particle Contamination in Gypsum Landfill Surroundings. <i>Environmental Modeling and Assessment</i> , 2011, 16, 479-489.	1.2	2
28	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.	1.4	2
29	Cooling analysis of a light emitting diode automotive fog lamp. <i>Thermal Science</i> , 2017, 21, 757-766.	0.5	2
30	A hybrid analyticalâ€“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, 1021-1029.	2.2	2
31	Determination of pressure resistance of a partially stoppered vial by using a coupled CFD-OD model of lyophilization. <i>European Journal of Pharmaceutics and Biopharmaceutics</i> , 2022, 175, 53-64.	2.0	2
32	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
33	THE INFLUENCE OF A VIAL STOPPER ON FLOW AND MASS TRANSFER CONDITIONS INSIDE A VIAL. , 2018, , .		1
34	STOKES FLOW INDUCED DRAG AND TORQUE ON ASBESTOS-LIKE FIBRES CANNOT BE ESTIMATED BY A SIMPLISTIC ELLIPSOIDAL APPROXIMATION. <i>WIT Transactions on Engineering Sciences</i> , 2022, , .	0.0	1
35	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	0
36	Separation of magnetic particles in channel flows by BEM. <i>Proceedings in Applied Mathematics and Mechanics</i> , 2012, 12, 475-476.	0.2	0