Francisco Jose de Souza

List of Publications by Year
in descending order

24	847	623734	677142
papers	citations	14 h-index	22 g-index

24	24	24	391
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	Numerical simulation of drag reduction by microbubbles in a vertical channel. European Journal of Mechanics, B/Fluids, 2022, 92, 215-225.	2.5	8
2	Shape optimization of pipeline components. Canadian Journal of Chemical Engineering, 2022, 100, 3486-3501.	1.7	1
3	Dynamic mesh approaches for eroded shape predictions. Wear, 2021, 484-485, 203438.	3.1	6
4	Computational Fluid Dynamics Modelling of Liquidâ€“Solid Slurry Flows in Pipelines: State-of-the-Art and Future Perspectives. Processes, 2021, 9, 1566.	2.8	29
5	A numerical assessment of two geometries for reducing elbow erosion. Particuology, 2020, 49, 117-133.	3.6	31
6	Numerical simulation of a water droplet splash: Comparison between PLIC and HRIC schemes for the VoF transport equation. European Journal of Mechanics, B/Fluids, 2020, 84, 63-70.	2.5	4
7	Performance of an optimized <mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" altimg="si1.svg"><mml:mrow><mml:mi>k</mml:mi><mml:mo linebreak="goodbreak">â^’</mml:mo><mml:mi>ïµ</mml:mi></mml:mrow></mml:math> turbulence model for flows around bluff bodies. Mechanics Research Communications, 2020, 105, 103518.	1.8	5
8	A Numerical Study on Droplet-Particle Collision. Flow, Turbulence and Combustion, 2020, 105, 965-987.	2.6	10
9	Improved hybrid model applied to liquid jet in crossflow. International Journal of Multiphase Flow, 2019, 114, 98-114.	3.4	17
10	Numerical simulation of a water droplet splash: Effects of density interpolation schemes. Mechanics Research Communications, 2018, 90, 18-25.	1.8	5
11	Innovative pipe wall design to mitigate elbow erosion: A CFD analysis. Wear, 2017, 380-381, 176-190.	3.1	58
12	The role of inter-particle collisions on elbow erosion. International Journal of Multiphase Flow, 2017, 89, 1-22.	3.4	77
13	Mitigating elbow erosion with a vortex chamber. Powder Technology, 2016, 288, 6-25.	4.2	61
14	Reducing bend erosion with a twisted tape insert. Powder Technology, 2016, 301, 889-910.	4.2	31
15	Simulation of the performance of small cyclone separators through the use of Post Cyclones (PoC) and annular overflow ducts. Separation and Purification Technology, 2015, 142, 71-82.	7.9	30
16	Effects of the gas outlet duct length and shape on the performance of cyclone separators. Separation and Purification Technology, 2015, 142, 90-100.	7.9	55
17	Numerical investigation of mass loading effects on elbow erosion. Powder Technology, 2015, 283, 593-606.	4.2	86
18	Numerical prediction of the erosion due to particles in elbows. Powder Technology, 2014, 261, 105-117.	4.2	146

#	Article	IF	Citations
19	Four-way coupled simulations of the gasâ€“particle flow in a diffuser. Powder Technology, 2014, 253, 496-508.	4.2	25
20	Formation of vortex breakdown in conicalâ€“cylindrical cavities. International Journal of Heat and Fluid Flow, 2014, 48, 52-68.	2.4	10
21	A Numerical Analysis of the Turbophoresis in a Turbulent Gas-Particle Flow. , 2014, , .		1
22	Particle-Induced Flow Reattachment in a Diffuser. , 2014, , .		0
23	Large Eddy Simulation of the gasâ€“particle flow in cyclone separators. Separation and Purification Technology, 2012, 94, 61-70.	7.9	101
24	Analysis of the influence of the filtering medium on the behaviour of the filtering hydrocyclone. Powder Technology, 2000, 107, 259-267.	4.2	50