

# Francisco Jose de Souza

## List of Publications by Year in descending order

Source: <https://exaly.com/author-pdf/3350225/publications.pdf>

Version: 2024-02-01

24  
papers

847  
citations

623734

14  
h-index

677142

22  
g-index

24  
all docs

24  
docs citations

24  
times ranked

391  
citing authors

#	ARTICLE	IF	CITATIONS
1	Numerical prediction of the erosion due to particles in elbows. Powder Technology, 2014, 261, 105-117.	4.2	146
2	Large Eddy Simulation of the gas-particle flow in cyclone separators. Separation and Purification Technology, 2012, 94, 61-70.	7.9	101
3	Numerical investigation of mass loading effects on elbow erosion. Powder Technology, 2015, 283, 593-606.	4.2	86
4	The role of inter-particle collisions on elbow erosion. International Journal of Multiphase Flow, 2017, 89, 1-22.	3.4	77
5	Mitigating elbow erosion with a vortex chamber. Powder Technology, 2016, 288, 6-25.	4.2	61
6	Innovative pipe wall design to mitigate elbow erosion: A CFD analysis. Wear, 2017, 380-381, 176-190.	3.1	58
7	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
8	Analysis of the influence of the filtering medium on the behaviour of the filtering hydrocyclone. Powder Technology, 2000, 107, 259-267.	4.2	50
9	Reducing bend erosion with a twisted tape insert. Powder Technology, 2016, 301, 889-910.	4.2	31
10	A numerical assessment of two geometries for reducing elbow erosion. Particuology, 2020, 49, 117-133.	3.6	31
11	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
12	Computational Fluid Dynamics Modelling of Liquid-Solid Slurry Flows in Pipelines: State-of-the-Art and Future Perspectives. Processes, 2021, 9, 1566.	2.8	29
13	Four-way coupled simulations of the gas-particle flow in a diffuser. Powder Technology, 2014, 253, 496-508.	4.2	25
14	Improved hybrid model applied to liquid jet in crossflow. International Journal of Multiphase Flow, 2019, 114, 98-114.	3.4	17
15	Formation of vortex breakdown in conical-cylindrical cavities. International Journal of Heat and Fluid Flow, 2014, 48, 52-68.	2.4	10
16	A Numerical Study on Droplet-Particle Collision. Flow, Turbulence and Combustion, 2020, 105, 965-987.	2.6	10
17	Numerical simulation of drag reduction by microbubbles in a vertical channel. European Journal of Mechanics, B/Fluids, 2022, 92, 215-225.	2.5	8
18	Dynamic mesh approaches for eroded shape predictions. Wear, 2021, 484-485, 203438.	3.1	6

#	ARTICLE	IF	CITATIONS
19	Numerical simulation of a water droplet splash: Effects of density interpolation schemes. Mechanics Research Communications, 2018, 90, 18-25.	1.8	5
20	Performance of an optimized $k-\epsilon$ turbulence model for flows around bluff bodies. Mechanics Research Communications, 2020, 105, 103518.	1.8	5
21	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
22	A Numerical Analysis of the Turbophoresis in a Turbulent Gas-Particle Flow. , 2014, , .		1
23	Shape optimization of pipeline components. Canadian Journal of Chemical Engineering, 2022, 100, 3486-3501.	1.7	1
24	Particle-Induced Flow Reattachment in a Diffuser. , 2014, , .		0