

Luca Mazzei

List of Publications by Year in descending order

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Version: 2024-02-01

38
papers

860
citations

471509

17
h-index

477307

29
g-index

39
all docs

39
docs citations

39
times ranked

942
citing authors

#	ARTICLE	IF	CITATIONS
1	CFD-PBE coupled model for size-driven segregation in polydisperse granular flows. <i>Chemical Engineering Science</i> , 2022, 247, 117065.	3.8	4
2	Roles of solid effective stress and fluid-particle interaction force in modeling shear-induced particle migration in non-Brownian suspensions. <i>Physical Review Fluids</i> , 2021, 6, .	2.5	0
3	Viscoelastic flow instabilities in static mixers: Onset and effect on the mixing efficiency. <i>Physics of Fluids</i> , 2021, 33, .	4.0	9
4	Effect of D-Mannitol on the Microstructure and Rheology of Non-Aqueous Carbopol Microgels. <i>Materials</i> , 2021, 14, 1782.	2.9	1
5	Continuous synthesis of gold nanoparticles in micro- and millifluidic systems. <i>ChemistrySelect</i> , 2021, 6, .	1.5	1
6	Effect of acoustic streaming on continuous flow sonocrystallization in millifluidic channels. <i>Chemical Engineering Journal</i> , 2020, 379, 122221.	12.7	18
7	Mathematical Modeling of Spray Impingement and Film Formation on Pharmaceutical Tablets during Coating. <i>Chemical Engineering Research and Design</i> , 2020, 153, 768-788.	5.6	5
8	Investigation of the swollen state of Carbopol molecules in non-aqueous solvents through rheological characterization. <i>Soft Matter</i> , 2020, 16, 9799-9815.	2.7	11
9	A model for the fluid dynamic behavior of a film coating suspension during tablet coating. <i>Chemical Engineering Research and Design</i> , 2020, 160, 301-320.	5.6	5
10	Experimental investigation of the solid-liquid separation in a stirred tank owing to viscoelasticity. <i>Physical Review Fluids</i> , 2020, 5, .	2.5	4
11	Experimental and numerical studies on the flow characteristics and separation properties of dispersed liquid-liquid flows. <i>Physics of Fluids</i> , 2019, 31, .	4.0	12
12	Gelation kinetics of non-aqueous Carbopol dispersions. <i>Colloids and Surfaces A: Physicochemical and Engineering Aspects</i> , 2019, 577, 84-95.	4.7	8
13	On the closure problem of the effective stress in the Eulerian-Eulerian and mixture modeling approaches for the simulation of liquid-particle suspensions. <i>Physics of Fluids</i> , 2019, 31, .	4.0	11
14	New Perspectives on the Study of Particulate Matter Deposition within Historic Interiors. <i>Studies in Conservation</i> , 2019, 64, 193-202.	1.1	6
15	Computational fluid dynamic studies of mixers for highly viscous shear thinning fluids and PIV validation. <i>Chemical Engineering Science</i> , 2018, 179, 133-149.	3.8	20
16	Mathematical modelling of water absorption and evaporation in a pharmaceutical tablet during film coating. <i>Chemical Engineering Science</i> , 2018, 175, 40-55.	3.8	18
17	New insight into the effect of mass transfer on the synthesis of silver and gold nanoparticles. <i>CrystEngComm</i> , 2018, 20, 7082-7093.	2.6	15
18	The Influence of Water Activity and Air Movement in Preventing Mould in Historic Materials. <i>Studies in Conservation</i> , 2018, 63, 348-350.	1.1	2

#	ARTICLE	IF	CITATIONS
19	An engineering approach to synthesis of gold and silver nanoparticles by controlling hydrodynamics and mixing based on a coaxial flow reactor. <i>Nanoscale</i> , 2017, 9, 14149-14161.	5.6	48
20	Applicability of a drift-flux model of aerosol deposition in a test tunnel and an indoor heritage environment. <i>Building and Environment</i> , 2016, 106, 78-90.	6.9	13
21	Lateral solid mixing in gas-fluidized beds: CFD and DEM studies. <i>Chemical Engineering Research and Design</i> , 2016, 114, 148-161.	5.6	21
22	Investigation of the Effect of Ultrasound Parameters on Continuous Sonocrystallization in a Millifluidic Device. <i>Crystal Growth and Design</i> , 2016, 16, 4607-4619.	3.0	47
23	Photobioreactors for microalgal cultures: A Lagrangian model coupling hydrodynamics and kinetics. <i>Biotechnology Progress</i> , 2015, 31, 1259-1272.	2.6	27
24	Synthesis of silver nanoparticles in a microfluidic coaxial flow reactor. <i>RSC Advances</i> , 2015, 5, 95585-95591.	3.6	61
25	An investigation on the mechanics of homogeneous expansion in gas-fluidized beds. <i>Chemical Engineering Science</i> , 2015, 127, 95-105.	3.8	20
26	Adipic Acid Primary Nucleation Kinetics from Probability Distributions in Droplet-Based Systems under Stagnant and Flow Conditions. <i>Crystal Growth and Design</i> , 2015, 15, 1784-1791.	3.0	31
27	Continuous-Flow Sonocrystallization in Droplet-Based Microfluidics. <i>Crystal Growth and Design</i> , 2015, 15, 5519-5529.	3.0	64
28	CFD simulation of bubbling fluidized bidisperse mixtures: Effect of integration methods and restitution coefficient. <i>Chemical Engineering Science</i> , 2013, 102, 324-334.	3.8	41
29	Segregation dynamics of dense polydisperse fluidized suspensions modeled using a novel formulation of the direct quadrature method of moments. <i>Chemical Engineering Science</i> , 2013, 101, 565-576.	3.8	15
30	Eulerian-Eulerian Simulations of Segregating Binary Gas-Solid Fluidized Beds. <i>International Journal of Nonlinear Sciences and Numerical Simulation</i> , 2012, 13, .	1.0	3
31	New quadrature-based moment method for the mixing of inert polydisperse fluidized powders in commercial CFD codes. <i>AIChE Journal</i> , 2012, 58, 3054-3069.	3.6	37
32	CFD simulations of segregating fluidized bidisperse mixtures of particles differing in size. <i>Chemical Engineering Journal</i> , 2010, 156, 432-445.	12.7	51
33	Direct Quadrature Method of Moments for the Mixing of Inert Polydisperse Fluidized Powders and the Role of Numerical Diffusion. <i>Industrial & Engineering Chemistry Research</i> , 2010, 49, 5141-5152.	3.7	27
34	Challenges and Issues on the CFD Modeling of Fluidized Beds: A Review. <i>Journal of Computational Multiphase Flows</i> , 2009, 1, 83-131.	0.8	28
35	CFD simulations of expanding/contracting homogeneous fluidized beds and their transition to bubbling. <i>Chemical Engineering Science</i> , 2008, 63, 5831-5847.	3.8	33
36	CFD modeling of binary-fluidized suspensions and investigation of role of particle-particle drag on mixing and segregation. <i>AIChE Journal</i> , 2007, 53, 1924-1940.	3.6	68

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37	A drag force closure for uniformly dispersed fluidized suspensions. Chemical Engineering Science, 2007, 62, 6129-6142.	3.8	60
38	A revised mono-dimensional particle bed model for fluidized beds. Chemical Engineering Science, 2006, 61, 1958-1972.	3.8	14