

Francesco Lucci

List of Publications by Year in descending order

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Version: 2024-02-01

22
papers

711
citations

623734

14
h-index

713466

21
g-index

22
all docs

22
docs citations

22
times ranked

694
citing authors

#	ARTICLE	IF	CITATIONS
1	Modulation of isotropic turbulence by particles of Taylor length-scale size. <i>Journal of Fluid Mechanics</i> , 2010, 650, 5-55.	3.4	210
2	Is Stokes number an appropriate indicator for turbulence modulation by particles of Taylor-length-scale size?. <i>Physics of Fluids</i> , 2011, 23, .	4.0	58
3	Performance of randomized Kelvin cell structures as catalytic substrates: Mass-transfer based analysis. <i>Chemical Engineering Science</i> , 2014, 112, 143-151.	3.8	55
4	Additive Manufactured open cell polyhedral structures as substrates for automotive catalysts. <i>International Journal of Heat and Mass Transfer</i> , 2018, 126, 1035-1047.	4.8	52
5	On the catalytic performance of open cell structures versus honeycombs. <i>Chemical Engineering Journal</i> , 2015, 264, 514-521.	12.7	50
6	Comparison of geometrical, momentum and mass transfer characteristics of real foams to Kelvin cell lattices for catalyst applications. <i>International Journal of Heat and Mass Transfer</i> , 2017, 108, 341-350.	4.8	49
7	Influence of the lift force in direct numerical simulation of upward/downward turbulent channel flow laden with surfactant contaminated microbubbles. <i>Chemical Engineering Science</i> , 2005, 60, 6176-6187.	3.8	35
8	Multi-scale modelling of mass transfer limited heterogeneous reactions in open cell foams. <i>International Journal of Heat and Mass Transfer</i> , 2014, 75, 337-346.	4.8	31
9	CFD modeling of convective scalar transport in a macroporous material for drying applications. <i>International Journal of Thermal Sciences</i> , 2018, 123, 86-98.	4.9	25
10	Characterization and modeling of aerosol deposition in Vitrocell® exposure systems - exposure well chamber deposition efficiency. <i>Journal of Aerosol Science</i> , 2018, 123, 141-160.	3.8	25
11	Effect of washcoat diffusion resistance in foam based catalytic reactors. <i>Chemical Engineering Journal</i> , 2015, 276, 388-397.	12.7	22
12	Pore scale modeling of cold-start emissions in foam based catalytic reactors. <i>Chemical Engineering Science</i> , 2015, 138, 446-456.	3.8	18
13	Multispecies aerosol evolution and deposition in a bent pipe. <i>Journal of Aerosol Science</i> , 2019, 129, 53-70.	3.8	17
14	Deposition efficiency and uniformity of monodisperse solid particle deposition in the Vitrocell® 24/48 Air® "Liquid-Interface <i>in vitro</i> exposure system. <i>Aerosol Science and Technology</i> , 2020, 54, 52-65.	3.1	16
15	Multispecies aerosol evolution and deposition in a human respiratory tract cast model. <i>Journal of Aerosol Science</i> , 2021, 153, 105720.	3.8	14
16	Development of a realistic human respiratory tract cast representing physiological thermal conditions. <i>Aerosol Science and Technology</i> , 2019, 53, 860-870.	3.1	9
17	Assessment of Single-Photon Ionization Mass Spectrometry for Online Monitoring of <i>in Vitro</i> Aerosol Exposure Experiments. <i>Chemical Research in Toxicology</i> , 2020, 33, 505-514.	3.3	7
18	Experimental and computational investigation of a nose-only exposure chamber. <i>Aerosol Science and Technology</i> , 2020, 54, 277-290.	3.1	6

#	ARTICLE	IF	CITATIONS
19	AeroSolved: Computational fluid dynamics modeling of multispecies aerosol flows with sectional and moment methods. <i>Journal of Aerosol Science</i> , 2022, 159, 105854.	3.8	5
20	Comparison of experimentally measured and computational fluid dynamic predicted deposition and deposition uniformity of monodisperse solid particles in the Vitrocell [®] AMES 48 air-liquid-interface in-vitro exposure system. <i>Toxicology in Vitro</i> , 2020, 67, 104870.	2.4	4
21	Use of micro-CT to determine tracheobronchial airway geometries in three strains of mice used in inhalation toxicology as disease models. <i>Anatomical Record</i> , 2021, 304, 2050-2067.	1.4	3
22	Aerosol Dosimetry and Human-Relevant Exposure. , 2021, , 223-233.		0