Francesco Lucci

List of Publications by Year in descending order

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	AeroSolved: Computational fluid dynamics modeling of multispecies aerosol flows with sectional and moment methods. Journal of Aerosol Science, 2022, 159, 105854.	3.8	5
2	Aerosol Dosimetry and Human-Relevant Exposure. , 2021, , 223-233.		0
3	Multispecies aerosol evolution and deposition in a human respiratory tract cast model. Journal of Aerosol Science, 2021, 153, 105720.	3.8	14
4	Use of microâ€CT to determine tracheobronchial airway geometries in three strains of mice used in inhalation toxicology as disease models. Anatomical Record, 2021, 304, 2050-2067.	1.4	3
5	Deposition efficiency and uniformity of monodisperse solid particle deposition in the VitrocellÂ® 24/48 Airâ€“Liquid-Interface in vitro exposure system. Aerosol Science and Technology, 2020, 54, 52-65.	3.1	16
6	Experimental and computational investigation of a nose-only exposure chamber. Aerosol Science and Technology, 2020, 54, 277-290.	3.1	6
7	Assessment of Single-Photon Ionization Mass Spectrometry for Online Monitoring of in Vitro Aerosol Exposure Experiments. Chemical Research in Toxicology, 2020, 33, 505-514.	3.3	7
8	Comparison of experimentally measured and computational fluid dynamic predicted deposition and deposition uniformity of monodisperse solid particles in the VitrocellÂ® AMES 48 air-liquid-interface in-vitro exposure system. Toxicology in Vitro, 2020, 67, 104870.	2.4	4
9	Development of a realistic human respiratory tract cast representing physiological thermal conditions. Aerosol Science and Technology, 2019, 53, 860-870.	3.1	9
10	Multispecies aerosol evolution and deposition in a bent pipe. Journal of Aerosol Science, 2019, 129, 53-70.	3.8	17
11	CFD modeling of convective scalar transport in a macroporous material for drying applications. International Journal of Thermal Sciences, 2018, 123, 86-98.	4.9	25
12	Additive Manufactured open cell polyhedral structures as substrates for automotive catalysts. International Journal of Heat and Mass Transfer, 2018, 126, 1035-1047.	4.8	52
13	Characterization and modeling of aerosol deposition in VitrocellÂ® exposure systems - exposure well chamber deposition efficiency. Journal of Aerosol Science, 2018, 123, 141-160.	3.8	25
14	Comparison of geometrical, momentum and mass transfer characteristics of real foams to Kelvin cell lattices for catalyst applications. International Journal of Heat and Mass Transfer, 2017, 108, 341-350.	4.8	49
15	Pore scale modeling of cold-start emissions in foam based catalytic reactors. Chemical Engineering Science, 2015, 138, 446-456.	3.8	18
16	Effect of washcoat diffusion resistance in foam based catalytic reactors. Chemical Engineering Journal, 2015, 276, 388-397.	12.7	22
17	On the catalytic performance of open cell structures versus honeycombs. Chemical Engineering Journal, 2015, 264, 514-521.	12.7	50
18	Performance of randomized Kelvin cell structures as catalytic substrates: Mass-transfer based analysis. Chemical Engineering Science, 2014, 112, 143-151.	3.8	55

#	Article	IF	Citations
19	Multi-scale modelling of mass transfer limited heterogeneous reactions in open cell foams. International Journal of Heat and Mass Transfer, 2014, 75, 337-346.	4.8	31
20	Is Stokes number an appropriate indicator for turbulence modulation by particles of Taylor-length-scale size?. Physics of Fluids, 2011, 23, .	4.0	58
21	Modulation of isotropic turbulence by particles of Taylor length-scale size. Journal of Fluid Mechanics, 2010, 650, 5-55.	3.4	210
22	Influence of the lift force in direct numerical simulation of upward/downward turbulent channel flow laden with surfactant contaminated microbubbles. Chemical Engineering Science, 2005, 60, 6176-6187.	3.8	35