

Zhenbo Tong

List of Publications by Year in descending order

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34
papers

1,258
citations

430874

18
h-index

434195

31
g-index

34
all docs

34
docs citations

34
times ranked

970
citing authors

#	ARTICLE	IF	CITATIONS
1	Numerical investigation of separation efficiency of the cyclone with supercritical fluidâ€“solid flow. Particuology, 2022, 62, 36-46.	3.6	15
2	Numerical Simulation of Aspergillus Niger Spore Deposition in Nasal Cavities of a Population in Northwest China. Atmosphere, 2022, 13, 911.	2.3	0
3	Remdesivir powders manufactured by jet milling for potential pulmonary treatment of COVID-19. Pharmaceutical Development and Technology, 2022, 27, 635-645.	2.4	2
4	Numerical investigation of deposition mechanism in three mouthâ€“throat models. Powder Technology, 2021, 378, 724-735.	4.2	21
5	Role of CFD based in silico modelling in establishing an in vitro-in vivo correlation of aerosol deposition in the respiratory tract. Advanced Drug Delivery Reviews, 2021, 170, 369-385.	13.7	45
6	Microfluidic spray dried and spray freeze dried uniform microparticles potentially for intranasal drug delivery and controlled release. Powder Technology, 2021, 379, 144-153.	4.2	21
7	Numerical study of effects of device design on drug delivery efficiency for an active dry powder inhaler. Journal of Aerosol Science, 2021, 157, 105801.	3.8	4
8	Numerical and Experimental Investigation on Key Parameters of the Respimat® Spray Inhaler. Processes, 2021, 9, 44.	2.8	2
9	Evaluation of nasal function after endoscopic endonasal surgery for pituitary adenoma: a computational fluid dynamics study. Computer Methods in Biomechanics and Biomedical Engineering, 2021, , 1-10.	1.6	3
10	Computational investigation of dust mite allergens in a realistic human nasal cavity. Inhalation Toxicology, 2019, 31, 224-235.	1.6	29
11	CFD modelling of air and particle flows in different airway models. Journal of Aerosol Science, 2019, 134, 14-28.	3.8	33
12	Computational Fluid Dynamics (CFD) Investigation of Aerodynamic Characters inside Nasal Cavity towards Surgical Treatments for Secondary Atrophic Rhinitis. Mathematical Problems in Engineering, 2019, 2019, 1-8.	1.1	6
13	Experimental and numerical study of particle velocity distribution in the vertical pipe after a 90° elbow. Powder Technology, 2017, 314, 500-509.	4.2	10
14	CFD-DEM Study the Effect of Carrier-Drug Mass Ratio on the Aerosolisation Process in Original and Modified Dry Powder Inhalers. Springer Proceedings in Physics, 2017, , 957-965.	0.2	1
15	CFD-DEM study of the aerosolisation mechanism of carrier-based formulations with high drug loadings. Powder Technology, 2017, 314, 620-626.	4.2	18
16	DEM/CFD-DEM Modelling of Non-spherical Particulate Systems: Theoretical Developments and Applications. Powder Technology, 2016, 302, 108-152.	4.2	437
17	Understanding the Different Effects of Inhaler Design on the Aerosol Performance of Drug-Only and Carrier-Based DPI Formulations. Part 1: Grid Structure. AAPS Journal, 2016, 18, 1159-1167.	4.4	14
18	Numerical and experimental study of tensile stresses of biomass combustion ash with temperature variation. Advanced Powder Technology, 2016, 27, 215-222.	4.1	4

#	ARTICLE	IF	CITATIONS
19	CFD-DEM investigation of the effect of agglomerate-agglomerate collision on dry powder aerosolisation. Journal of Aerosol Science, 2016, 92, 109-121.	3.8	36
20	Computational fluid dynamics (CFD) investigation of the gas-solid flow and performance of Andersen cascade impactor. Powder Technology, 2015, 285, 128-137.	4.2	8
21	Multi-Scale Modelling of Powder Dispersion in a Carrier-Based Inhalation System. Pharmaceutical Research, 2015, 32, 2086-2096.	3.5	38
22	De-agglomeration Effect of the US Pharmacopeia and Alberta Throats on Carrier-Based Powders in Commercial Inhalation Products. AAPS Journal, 2015, 17, 1407-1416.	4.4	30
23	Discrete Modelling of Powder Dispersion in Dry Powder Inhalers - A Brief Review. Current Pharmaceutical Design, 2015, 21, 3966-3973.	1.9	25
24	Effects of mechanical impaction on aerosol performance of particles with different surface roughness. Powder Technology, 2013, 236, 164-170.	4.2	31
25	CFD-DEM investigation of the dispersion mechanisms in commercial dry powder inhalers. Powder Technology, 2013, 240, 19-24.	4.2	97
26	Effect of Device Design on the Aerosolization of a Carrier-Based Dry Powder Inhaler—a Case Study on Aerolizer® Foradile®. AAPS Journal, 2013, 15, 511-522.	4.4	62
27	CFD analysis of the aerosolization of carrier-based dry powder inhaler formulations. , 2013, , .		4
28	Does the United States Pharmacopeia Throat Introduce De-agglomeration of Carrier-Free Powder from Inhalers?. Pharmaceutical Research, 2012, 29, 1797-1807.	3.5	22
29	Agglomerate strength and dispersion of pharmaceutical powders. Journal of Aerosol Science, 2011, 42, 285-294.	3.8	32
30	Numerical investigation of the de-agglomeration mechanisms of fine powders on mechanical impaction. Journal of Aerosol Science, 2011, 42, 811-819.	3.8	30
31	Impact angles as an alternative way to improve aerosolisation of powders for inhalation?. European Journal of Pharmaceutical Sciences, 2010, 41, 320-327.	4.0	19
32	Numerical study of the effects of particle size and polydispersity on the agglomerate dispersion in a cyclonic flow. Chemical Engineering Journal, 2010, 164, 432-441.	12.7	77
33	Numerical Study of Effects of Powder Size and Polydispersity on the Dispersion of Fine Powders in a Cyclonic Flow. , 2009, , .		0
34	Numerical modelling of the breakage of loose agglomerates of fine particles. Powder Technology, 2009, 196, 213-221.	4.2	82