

Yidan Shang

List of Publications by Year in descending order

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52
papers

1,274
citations

304368

22
h-index

377514

34
g-index

52
all docs

52
docs citations

52
times ranked

865
citing authors

#	ARTICLE	IF	CITATIONS
1	Modelling of evaporation of cough droplets in inhomogeneous humidity fields using the multi-component Eulerian-Lagrangian approach. <i>Building and Environment</i> , 2018, 128, 68-76.	3.0	105
2	Detailed micro-particle deposition patterns in the human nasal cavity influenced by the breathing zone. <i>Computers and Fluids</i> , 2015, 114, 141-150.	1.3	93
3	Evaluation of airborne disease infection risks in an airliner cabin using the Lagrangian-based Wells-Riley approach. <i>Building and Environment</i> , 2017, 121, 79-92.	3.0	78
4	Effects of nasal drug delivery device and its orientation on sprayed particle deposition in a realistic human nasal cavity. <i>Computers in Biology and Medicine</i> , 2016, 77, 40-48.	3.9	64
5	Geometry and airflow dynamics analysis in the nasal cavity during inhalation. <i>Clinical Biomechanics</i> , 2019, 66, 97-106.	0.5	56
6	Comparative numerical modeling of inhaled micron-sized particle deposition in human and rat nasal cavities. <i>Inhalation Toxicology</i> , 2015, 27, 694-705.	0.8	49
7	Correlation of regional deposition dosage for inhaled nanoparticles in human and rat olfactory. <i>Particle and Fibre Toxicology</i> , 2019, 16, 6.	2.8	49
8	Surface mapping for visualization of wall stresses during inhalation in a human nasal cavity. <i>Respiratory Physiology and Neurobiology</i> , 2014, 190, 54-61.	0.7	43
9	Examining mesh independence for flow dynamics in the human nasal cavity. <i>Computers in Biology and Medicine</i> , 2018, 102, 40-50.	3.9	42
10	An Eulerian-Eulerian model for particulate matter transport in indoor spaces. <i>Building and Environment</i> , 2015, 86, 191-202.	3.0	40
11	Detailed computational analysis of flow dynamics in an extended respiratory airway model. <i>Clinical Biomechanics</i> , 2019, 61, 105-111.	0.5	40
12	From the Cover: Comparative Numerical Modeling of Inhaled Nanoparticle Deposition in Human and Rat Nasal Cavities. <i>Toxicological Sciences</i> , 2016, 152, 284-296.	1.4	36
13	Development of a computational fluid dynamics model for mucociliary clearance in the nasal cavity. <i>Journal of Biomechanics</i> , 2019, 85, 74-83.	0.9	33
14	Human nasal olfactory deposition of inhaled nanoparticles at low to moderate breathing rate. <i>Journal of Aerosol Science</i> , 2017, 113, 189-200.	1.8	32
15	Detailed nanoparticle exposure analysis among human nasal cavities with distinct vestibule phenotypes. <i>Journal of Aerosol Science</i> , 2018, 121, 54-65.	1.8	31
16	Ultrafine particle deposition in a realistic human airway at multiple inhalation scenarios. <i>International Journal for Numerical Methods in Biomedical Engineering</i> , 2019, 35, e3215.	1.0	31
17	Numerical Comparison of Nasal Aerosol Administration Systems for Efficient Nose-to-Brain Drug Delivery. <i>Pharmaceutical Research</i> , 2018, 35, 5.	1.7	30
18	Computational investigation of dust mite allergens in a realistic human nasal cavity. <i>Inhalation Toxicology</i> , 2019, 31, 224-235.	0.8	29

#	ARTICLE	IF	CITATIONS
19	Transport and Deposition of Welding Fume Agglomerates in a Realistic Human Nasal Airway. <i>Annals of Occupational Hygiene</i> , 2016, 60, 731-747.	1.9	27
20	Air conditioning analysis among human nasal passages with anterior anatomical variations. <i>Medical Engineering and Physics</i> , 2018, 57, 19-28.	0.8	27
21	Antennal scales improve signal detection efficiency in moths. <i>Proceedings of the Royal Society B: Biological Sciences</i> , 2018, 285, 20172832.	1.2	27
22	Prediction of nasal spray drug absorption influenced by mucociliary clearance. <i>PLoS ONE</i> , 2021, 16, e0246007.	1.1	27
23	Partitioning of dispersed nanoparticles in a realistic nasal passage for targeted drug delivery. <i>International Journal of Pharmaceutics</i> , 2018, 543, 83-95.	2.6	22
24	Characterization of nasal irrigation flow from a squeeze bottle using computational fluid dynamics. <i>International Forum of Allergy and Rhinology</i> , 2020, 10, 29-40.	1.5	22
25	A combined experimental and numerical study on upper airway dosimetry of inhaled nanoparticles from an electrical discharge machine shop. <i>Particle and Fibre Toxicology</i> , 2017, 14, 24.	2.8	21
26	Numerical assessment of ambient inhaled micron particle deposition in a human nasal cavity. <i>Experimental and Computational Multiphase Flow</i> , 2019, 1, 109-115.	1.9	18
27	An improved numerical model for epidemic transmission and infection risks assessment in indoor environment. <i>Journal of Aerosol Science</i> , 2022, 162, 105943.	1.8	18
28	The impact of nasal adhesions on airflow and mucosal cooling – A computational fluid dynamics analysis. <i>Respiratory Physiology and Neurobiology</i> , 2021, 293, 103719.	0.7	17
29	Inhalation Health Risk Assessment for the Human Tracheobronchial Tree under PM Exposure in a Bus Stop Scene. <i>Aerosol and Air Quality Research</i> , 2019, 19, 1365-1376.	0.9	16
30	Particle deposition in the paranasal sinuses following endoscopic sinus surgery. <i>Computers in Biology and Medicine</i> , 2020, 116, 103573.	3.9	14
31	Analysis of the Nonrandom Two-Liquid Model for Prediction of Liquid-Liquid Equilibria. <i>Journal of Chemical & Engineering Data</i> , 2014, 59, 2485-2489.	1.0	13
32	Deposition features of inhaled viral droplets may lead to rapid secondary transmission of COVID-19. <i>Journal of Aerosol Science</i> , 2021, 154, 105745.	1.8	13
33	Detailed deposition analysis of inertial and diffusive particles in a rat nasal passage. <i>Inhalation Toxicology</i> , 2018, 30, 29-39.	0.8	12
34	A numerical study on firefighter nasal airway dosimetry of smoke particles from a realistic composite deck fire. <i>Journal of Aerosol Science</i> , 2018, 123, 91-104.	1.8	12
35	Inhalation and deposition of spherical and pollen particles after middle turbinate resection in a human nasal cavity. <i>Respiratory Physiology and Neurobiology</i> , 2021, 294, 103769.	0.7	12
36	Nasal air conditioning following total inferior turbinectomy compared to inferior turbinoplasty – A computational fluid dynamics study. <i>Clinical Biomechanics</i> , 2021, 81, 105237.	0.5	11

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37	Quantification of long-term accumulation of inhaled ultrafine particles via human olfactory-brain pathway due to environmental emissions – a pilot study. <i>NanoImpact</i> , 2021, 22, 100322.	2.4	11
38	Effect of breathing profiles on nebuliser drug delivery targeting the paranasal sinuses in a post-operative nasal cavity. <i>Journal of Aerosol Science</i> , 2022, 161, 105913.	1.8	8
39	Evaporation flow characteristics of respiratory droplets: Dynamic property under multifarious ambient conditions. <i>Building and Environment</i> , 2022, 221, 109272.	3.0	7
40	Detailed comparison of anatomy and airflow dynamics in human and cynomolgus monkey nasal cavity. <i>Computers in Biology and Medicine</i> , 2022, 141, 105150.	3.9	6
41	A Combined Computational and Experimental Study on Nanoparticle Transport and Partitioning in the Human Trachea and Upper Bronchial Airways. <i>Aerosol and Air Quality Research</i> , 2020, 20, 2404-2418.	0.9	5
42	Numerical comparison of inspiratory airflow patterns in human nasal cavities with distinct age differences. <i>International Journal for Numerical Methods in Biomedical Engineering</i> , 2022, 38, e3565.	1.0	5
43	Effect of morphology on nanoparticle transport and deposition in human upper tracheobronchial airways. <i>Journal of Computational Multiphase Flows</i> , 2018, 10, 83-96.	0.8	4
44	Fate of the inhaled smoke particles from fire scenes in the nasal airway of a realistic firefighter: A simulation study. <i>Journal of Occupational and Environmental Hygiene</i> , 2019, 16, 273-285.	0.4	4
45	Numerical investigation of pilots' micro-environment in an airliner cockpit. <i>Building and Environment</i> , 2022, 217, 109043.	3.0	4
46	Optimising Aerosol Delivery for Maxillary Sinus Deposition in a Post-FESS Sinonasal Cavities. <i>Aerosol and Air Quality Research</i> , 2021, 21, 210098.	0.9	3
47	Sedimentation effects on particle position and inertial deposition in 90° circular bends. <i>Powder Technology</i> , 2021, 393, 722-733.	2.1	3
48	Evaluation of nasal function after endoscopic endonasal surgery for pituitary adenoma: a computational fluid dynamics study. <i>Computer Methods in Biomechanics and Biomedical Engineering</i> , 2021, , 1-10.	0.9	3
49	Uniqueness of inspiratory airflow patterns in a realistic rat nasal cavity. <i>Computers in Biology and Medicine</i> , 2022, 141, 105129.	3.9	1
50	How Reliable Is the Extrapolation? Localized Particle Deposition Patterns in Human/Rat Nasal Cavities. , 2015, , .		0
51	Numerical air conditioning performance assessment of nasal models with morphologic variations. , 2017, , .		0
52	CFD Applications for Drug Delivery. <i>Biological and Medical Physics Series</i> , 2021, , 255-291.	0.3	0