

Jingliang Dong

List of Publications by Year in descending order

Source: <https://exaly.com/author-pdf/3742271/publications.pdf>

Version: 2024-02-01

130
papers

3,435
citations

117453

34
h-index

197535

49
g-index

130
all docs

130
docs citations

130
times ranked

2202
citing authors

#	ARTICLE	IF	CITATIONS
1	Numerical simulations for detailed airflow dynamics in a human nasal cavity. <i>Respiratory Physiology and Neurobiology</i> , 2008, 161, 125-135.	0.7	196
2	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
3	Micron particle deposition in a tracheobronchial airway model under different breathing conditions. <i>Medical Engineering and Physics</i> , 2010, 32, 1198-1212.	0.8	97
4	Numerical analysis of micro- and nano-particle deposition in a realistic human upper airway. <i>Computers in Biology and Medicine</i> , 2012, 42, 39-49.	3.9	92
5	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
6	Thermal effect of human body on cough droplets evaporation and dispersion in an enclosed space. <i>Building and Environment</i> , 2019, 148, 96-106.	3.0	78
7	Inhalability of micron particles through the nose and mouth. <i>Inhalation Toxicology</i> , 2010, 22, 287-300.	0.8	70
8	Numerical study of the effects of human body heat on particle transport and inhalation in indoor environment. <i>Building and Environment</i> , 2013, 59, 1-9.	3.0	65
9	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
10	Particle inhalation and deposition in a human nasal cavity from the external surrounding environment. <i>Building and Environment</i> , 2012, 47, 32-39.	3.0	61
11	Numerical study of fibre deposition in a human nasal cavity. <i>Journal of Aerosol Science</i> , 2008, 39, 253-265.	1.8	57
12	Geometry and airflow dynamics analysis in the nasal cavity during inhalation. <i>Clinical Biomechanics</i> , 2019, 66, 97-106.	0.5	56
13	Numerical modelling of nanoparticle deposition in the nasal cavity and the tracheobronchial airway. <i>Computer Methods in Biomechanics and Biomedical Engineering</i> , 2011, 14, 633-643.	0.9	53
14	From CT Scans to CFD Modelling – Fluid and Heat Transfer in a Realistic Human Nasal Cavity. <i>Engineering Applications of Computational Fluid Mechanics</i> , 2009, 3, 321-335.	1.5	51
15	Fluid-structure interaction analysis of the left coronary artery with variable angulation. <i>Computer Methods in Biomechanics and Biomedical Engineering</i> , 2015, 18, 1500-1508.	0.9	50
16	CFD simulation of aerosol delivery to a human lung via surface acoustic wave nebulization. <i>Biomechanics and Modeling in Mechanobiology</i> , 2017, 16, 2035-2050.	1.4	50
17	Computational Fluid and Particle Dynamics in the Human Respiratory System. <i>Biological and Medical Physics Series</i> , 2013, , .	0.3	49
18	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

#	ARTICLE	IF	CITATIONS
19	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
20	Computational Modelling of Gas-Particle Flows with Different Particle Morphology in the Human Nasal Cavity. <i>Journal of Computational Multiphase Flows</i> , 2009, 1, 57-82.	0.8	48
21	Measurements of Droplet Size Distribution and Analysis of Nasal Spray Atomization from Different Actuation Pressure. <i>Journal of Aerosol Medicine and Pulmonary Drug Delivery</i> , 2015, 28, 59-67.	0.7	48
22	Hemodynamics analysis of patient-specific carotid bifurcation: A CFD model of downstream peripheral vascular impedance. <i>International Journal for Numerical Methods in Biomedical Engineering</i> , 2013, 29, 476-491.	1.0	43
23	Numerical study of primary steam superheating effects on steam ejector flow and its pumping performance. <i>Energy</i> , 2014, 78, 205-211.	4.5	43
24	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
25	A numerical study of diurnally varying surface temperature on flow patterns and pollutant dispersion in street canyons. <i>Atmospheric Environment</i> , 2015, 104, 217-227.	1.9	43
26	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
27	Numerical study on the performances of steam-jet vacuum pump at different operating conditions. <i>Vacuum</i> , 2010, 84, 1341-1346.	1.6	41
28	An Eulerian-Eulerian model for particulate matter transport in indoor spaces. <i>Building and Environment</i> , 2015, 86, 191-202.	3.0	40
29	Detailed computational analysis of flow dynamics in an extended respiratory airway model. <i>Clinical Biomechanics</i> , 2019, 61, 105-111.	0.5	40
30	Evaluation of cough-jet effects on the transport characteristics of respiratory-induced contaminants in airline passengers' local environments. <i>Building and Environment</i> , 2020, 183, 107206.	3.0	40
31	A PMV-based HVAC control strategy for office rooms subjected to solar radiation. <i>Building and Environment</i> , 2020, 177, 106863.	3.0	40
32	Numerical investigation of particle transport and inhalation using standing thermal manikins. <i>Building and Environment</i> , 2013, 60, 116-125.	3.0	37
33	Evaluation of manikin simplification methods for CFD simulations in occupied indoor environments. <i>Energy and Buildings</i> , 2016, 127, 611-626.	3.1	37
34	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
35	The spontaneously condensing phenomena in a steam-jet pump and its influence on the numerical simulation accuracy. <i>International Journal of Heat and Mass Transfer</i> , 2012, 55, 4682-4687.	2.5	35
36	Numerical analysis of spontaneously condensing phenomena in nozzle of steam-jet vacuum pump. <i>Vacuum</i> , 2012, 86, 861-866.	1.6	35

#	ARTICLE	IF	CITATIONS
37	Lagrangian particle modelling of spherical nanoparticle dispersion and deposition in confined flows. <i>Journal of Aerosol Science</i> , 2016, 96, 56-68.	1.8	35
38	Micron particle deposition in the nasal cavity using the vâ€“f model. <i>Computers and Fluids</i> , 2011, 51, 184-188.	1.3	33
39	Inhalation and deposition of carbon and glass composite fibre in the respiratory airway. <i>Journal of Aerosol Science</i> , 2013, 65, 58-68.	1.8	33
40	A numerical investigation of wind environment around a walking human body. <i>Journal of Wind Engineering and Industrial Aerodynamics</i> , 2017, 168, 9-19.	1.7	33
41	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
42	CFD Modeling of Spray Atomization for a Nasal Spray Device. <i>Aerosol Science and Technology</i> , 2012, 46, 1219-1226.	1.5	32
43	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
44	Experimental and numerical investigations on heat transfer in stratified subsurface materials. <i>Applied Thermal Engineering</i> , 2018, 135, 228-237.	3.0	31
45	The comparison of condensation heat transfer and frictional pressure drop of R1234ze(E), propane and R134a in a horizontal mini-channel. <i>International Journal of Refrigeration</i> , 2018, 92, 208-224.	1.8	31
46	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
47	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
48	Numerical Comparison of Nasal Aerosol Administration Systems for Efficient Nose-to-Brain Drug Delivery. <i>Pharmaceutical Research</i> , 2018, 35, 5.	1.7	30
49	The primary pseudo-shock pattern of steam ejector and its influence on pumping efficiency based on CFD approach. <i>Energy</i> , 2019, 167, 224-234.	4.5	30
50	Numerical investigation on condensation heat transfer and pressure drop characteristics of R134a in horizontal flattened tubes. <i>International Journal of Refrigeration</i> , 2018, 85, 441-461.	1.8	29
51	Effects of airway obstruction induced by asthma attack on particle deposition. <i>Journal of Aerosol Science</i> , 2010, 41, 587-601.	1.8	28
52	The simplification of computer simulated persons (CSPs) in CFD models of occupied indoor spaces. <i>Building and Environment</i> , 2015, 93, 155-164.	3.0	28
53	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
54	Air conditioning analysis among human nasal passages with anterior anatomical variations. <i>Medical Engineering and Physics</i> , 2018, 57, 19-28.	0.8	27

#	ARTICLE	IF	CITATIONS
55	Visualization of periodic emission of drops with micro-dripping mode in electrohydrodynamic (EHD) atomization. <i>Experimental Thermal and Fluid Science</i> , 2019, 105, 307-315.	1.5	27
56	Prediction of nasal spray drug absorption influenced by mucociliary clearance. <i>PLoS ONE</i> , 2021, 16, e0246007.	1.1	27
57	External Characteristics of Unsteady Spray Atomization from a Nasal Spray Device. <i>Journal of Pharmaceutical Sciences</i> , 2013, 102, 1024-1035.	1.6	26
58	High Resolution Visualization and Analysis of Nasal Spray Drug Delivery. <i>Pharmaceutical Research</i> , 2014, 31, 1930-1937.	1.7	26
59	Characterization of choking flow behaviors inside steam ejectors based on the ejector refrigeration system. <i>International Journal of Refrigeration</i> , 2020, 113, 296-307.	1.8	26
60	Investigation of the Dynamic Melting Process in a Thermal Energy Storage Unit Using a Helical Coil Heat Exchanger. <i>Energies</i> , 2017, 10, 1129.	1.6	25
61	Indoor particle inhalability of a stationary and moving manikin. <i>Building and Environment</i> , 2020, 169, 106545.	3.0	25
62	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
63	Evaluation of the eddy viscosity turbulence models for the simulation of convection-radiation coupled heat transfer in indoor environment. <i>Energy and Buildings</i> , 2019, 184, 8-18.	3.1	22
64	Effects of passenger thermal plume on the transport and distribution characteristics of airborne particles in an airliner cabin section. <i>Science and Technology for the Built Environment</i> , 2016, 22, 153-163.	0.8	21
65	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
66	Image-based computational hemodynamics evaluation of atherosclerotic carotid bifurcation models. <i>Computers in Biology and Medicine</i> , 2013, 43, 1353-1362.	3.9	19
67	Evaluation of models and methods to simulate thermal radiation in indoor spaces. <i>Building and Environment</i> , 2018, 144, 259-267.	3.0	19
68	Computational Hemodynamics – Theory, Modelling and Applications. <i>Biological and Medical Physics Series</i> , 2015, , .	0.3	18
69	Experimental visualisation of wake flows induced by different shaped moving manikins. <i>Building and Environment</i> , 2018, 142, 361-370.	3.0	18
70	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
71	Microparticle Transport and Deposition in the Human Oral Airway: Toward the Smart Spacer. <i>Aerosol Science and Technology</i> , 2015, 49, 1109-1120.	1.5	17
72	Numerical investigation of the nozzle expansion state and its effect on the performance of the steam ejector based on ideal gas model. <i>Applied Thermal Engineering</i> , 2021, 199, 117509.	3.0	17

#	ARTICLE	IF	CITATIONS
73	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
74	Transmission of COVID-19 virus by cough-induced particles in an airliner cabin section. <i>Engineering Applications of Computational Fluid Mechanics</i> , 2021, 15, 934-950.	1.5	15
75	Numerical investigation of micron particle inhalation by standing thermal manikins in horizontal airflows. <i>Indoor and Built Environment</i> , 2016, 25, 357-370.	1.5	14
76	Characterisation and analysis of indoor tornado for contaminant removal and emergency ventilation. <i>Building and Environment</i> , 2019, 164, 106345.	3.0	14
77	Numerical assessment of respiratory airway exposure risks to diesel exhaust particles. <i>Experimental and Computational Multiphase Flow</i> , 2019, 1, 51-59.	1.9	14
78	Development of building material utilizing a low pozzolanic activity mineral. <i>Construction and Building Materials</i> , 2016, 121, 300-309.	3.2	13
79	Numerical simulation of pollutant dispersion in urban roadway tunnels. <i>Journal of Computational Multiphase Flows</i> , 2017, 9, 26-31.	0.8	13
80	Computational fluid dynamics analysis of wall shear stresses between human and rat nasal cavities. <i>European Journal of Mechanics, B/Fluids</i> , 2017, 61, 160-169.	1.2	13
81	Seasonal Changing Effect on Airflow and Pollutant Dispersion Characteristics in Urban Street Canyons. <i>Atmosphere</i> , 2017, 8, 43.	1.0	13
82	Dynamics of droplet formation with oscillation of meniscus in electric periodic dripping regime. <i>Experimental Thermal and Fluid Science</i> , 2021, 120, 110250.	1.5	13
83	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
84	Analysis of Patient-Specific Carotid Bifurcation Models Using Computational Fluid Dynamics. <i>Journal of Medical Imaging and Health Informatics</i> , 2011, 1, 116-125.	0.2	13
85	A smoke visualisation technique for wake flow from a moving human manikin. <i>Journal of Visualization</i> , 2017, 20, 125-137.	1.1	12
86	Numerical investigations of the effects of manikin simplifications on the thermal flow field in indoor spaces. <i>Building Simulation</i> , 2017, 10, 219-227.	3.0	12
87	Detailed deposition analysis of inertial and diffusive particles in a rat nasal passage. <i>Inhalation Toxicology</i> , 2018, 30, 29-39.	0.8	12
88	Numerical study on mixing flow behavior in gas-liquid ejector. <i>Experimental and Computational Multiphase Flow</i> , 2021, 3, 108-112.	1.9	12
89	Vortex structures and wake flow analysis from moving manikin models. <i>Indoor and Built Environment</i> , 2021, 30, 347-362.	1.5	12
90	Numerical simulation of diurnally varying thermal environment in a street canyon under haze-fog conditions. <i>Atmospheric Environment</i> , 2015, 119, 95-106.	1.9	11

#	ARTICLE	IF	CITATIONS
91	Quantification of airflow in the sinuses following functional endoscopic sinus surgery. <i>Rhinology</i> , 2020, 58, 0-0.	0.7	11
92	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
93	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
94	Mobility of nanofiber, nanorod, and straight-chain nanoparticles in gases. <i>Aerosol Science and Technology</i> , 2017, 51, 587-601.	1.5	10
95	Numerical analysis of an annular water-air jet pump with self-induced oscillation mixing chamber. <i>Journal of Computational Multiphase Flows</i> , 2017, 9, 47-53.	0.8	10
96	Experimental Study on Repetition Frequency of Drop/Jet Movement in Electro-Spraying of Deionized Water. <i>Aerosol and Air Quality Research</i> , 2018, 18, 301-313.	0.9	10
97	Effects of surface radiation on gaseous contaminants emission and dispersion in indoor environment – A numerical study. <i>International Journal of Heat and Mass Transfer</i> , 2019, 131, 854-862.	2.5	8
98	A Steam Ejector Refrigeration System Powered by Engine Combustion Waste Heat: Part 2. Understanding the Nature of the Shock Wave Structure. <i>Applied Sciences (Switzerland)</i> , 2019, 9, 4435.	1.3	7
99	Numerical and Experimental Analysis of Inhalation Airflow Dynamics in a Human Pharyngeal Airway. <i>International Journal of Environmental Research and Public Health</i> , 2020, 17, 1556.	1.2	7
100	Solar-assisted naturally ventilated double skin facade for buildings: Room impacts and indoor air quality. <i>Building and Environment</i> , 2022, 216, 109002.	3.0	7
101	Evaporation flow characteristics of respiratory droplets: Dynamic property under multifarious ambient conditions. <i>Building and Environment</i> , 2022, 221, 109272.	3.0	7
102	Numerical study on the effect of superheat on the steam ejector internal flow and entropy generation for MED-TVC desalination system. <i>Desalination</i> , 2022, 537, 115874.	4.0	7
103	Numerical Research About the Internal Flow of Steam-jet Vacuum Pump: Evaluation of Turbulence Models and Determination of the Shock-mixing Layer. <i>Physics Procedia</i> , 2012, 32, 614-622.	1.2	6
104	Transport and deposition of ultrafine particles in the upper tracheobronchial tree: a comparative study between approximate and realistic respiratory tract models. <i>Computer Methods in Biomechanics and Biomedical Engineering</i> , 2021, 24, 1125-1135.	0.9	6
105	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
106	A Steam Ejector Refrigeration System Powered by Engine Combustion Waste Heat: Part 1. Characterization of the Internal Flow Structure. <i>Applied Sciences (Switzerland)</i> , 2019, 9, 4275.	1.3	5
107	Numerical Study on Effects of Air Return Height on Performance of an Underfloor Air Distribution System for Heating and Cooling. <i>Energies</i> , 2020, 13, 1070.	1.6	5
108	Numerical analysis of nanoparticle transport and deposition in a cynomolgus monkey nasal passage. <i>International Journal for Numerical Methods in Biomedical Engineering</i> , 2021, 37, e3414.	1.0	5

#	ARTICLE	IF	CITATIONS
109	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
110	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
111	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
112	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
113	Experimental and numerical investigation of two-phase flow and mass transfer in a self-excited oscillation pulse jet pump. <i>Experimental and Computational Multiphase Flow</i> , 2021, 3, 131-136.	1.9	4
114	Numerical investigation of pilots' micro-environment in an airliner cockpit. <i>Building and Environment</i> , 2022, 217, 109043.	3.0	4
115	A Numerical Analysis of the Influence of Nozzle Geometric Structure on Spontaneous Steam Condensation and Irreversibility in the Steam Ejector Nozzle. <i>Applied Sciences (Switzerland)</i> , 2021, 11, 11954.	1.3	4
116	Numerical Modeling of a Simplified Ground Heat Exchanger Coupled with Sandbox. <i>Energy Procedia</i> , 2017, 110, 365-370.	1.8	3
117	Inhalation Exposure Analysis of Lung-Inhalable Particles in an Approximate Rat Central Airway. <i>International Journal of Environmental Research and Public Health</i> , 2019, 16, 2571.	1.2	3
118	Numerical modeling of thermal response of a ground heat exchanger with single U-shaped tube. <i>Science and Technology for the Built Environment</i> , 2019, 25, 525-533.	0.8	3
119	Microfiber transport characterization in human nasal cavity – Effect of fiber length. <i>Journal of Aerosol Science</i> , 2022, 160, 105908.	1.8	3
120	Reconstruction of the Human Airways. <i>Biological and Medical Physics Series</i> , 2013, , 45-71.	0.3	2
121	Multiphase Flows in Biomedical Applications. , 2016, , 1-24.		2
122	Interspecies comparison of heat and mass transfer characteristics in monkey and human nasal cavities. <i>Computers in Biology and Medicine</i> , 2022, 147, 105676.	3.9	2
123	Numerical Study of Large Diameter Butterfly Valve on Flow Characteristics. <i>Advanced Materials Research</i> , 2011, 236-238, 1653-1657.	0.3	1
124	Investigation of the channelling effect on pollutants dispersion between adjacent roadway tunnels. <i>International Journal of Environmental Science and Technology</i> , 2017, 14, 2733-2744.	1.8	1
125	Uniqueness of inspiratory airflow patterns in a realistic rat nasal cavity. <i>Computers in Biology and Medicine</i> , 2022, 141, 105129.	3.9	1
126	Detailed Assessment of Nasal Inter-Chamber Anatomical Variations and Its Effect on Flow Apportionment and Inhalation Exposure Patterns. <i>Fluids</i> , 2022, 7, 89.	0.8	1

#	ARTICLE	IF	CITATIONS
127	How Reliable Is the Extrapolation? Localized Particle Deposition Patterns in Human/Rat Nasal Cavities. , 2015, , .		0
128	Numerical air conditioning performance assessment of nasal models with morphologic variations. , 2017, , .		0
129	A new temperature treatment method of near-space crew capsule using phase change material. Science and Technology for the Built Environment, 2017, 23, 421-429.	0.8	0
130	Numerical Simulation of Aspergillus Niger Spore Deposition in Nasal Cavities of a Population in Northwest China. Atmosphere, 2022, 13, 911.	1.0	0