William W Yang

List of Publications by Year
in descending order

61	1,418	257101	360668
papers	citations	24 h-index	35 g-index

63	63	63	1159
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	A Numerical Study of Spray Particle Deposition in a Human Nasal Cavity. Aerosol Science and Technology, 2006, 40, 1034-1045.	1.5	116
2	Simulation of sprayed particle deposition in a human nasal cavity including a nasal spray device. Journal of Aerosol Science, 2011, 42, 100-113.	1.8	85
3	Optimising nasal spray parameters for efficient drug delivery using computational fluid dynamics. Computers in Biology and Medicine, 2008, 38, 713-726.	3.9	83
4	Dilute gasâ€“solid two-phase flows in a curved90â˜duct bend: CFD simulation with experimental validation. Chemical Engineering Science, 2007, 62, 2068-2088.	1.9	61
5	Characterization of Cold Spray Titanium Supersonic Jet. Journal of Thermal Spray Technology, 2009, 18, 110-117.	1.6	53
6	Measurements of Droplet Size Distribution and Analysis of Nasal Spray Atomization from Different Actuation Pressure. Journal of Aerosol Medicine and Pulmonary Drug Delivery, 2015, 28, 59-67.	0.7	48
7	Transient fluidâ€“structure coupling for simulation of a trileaflet heart valve using weak coupling. Journal of Artificial Organs, 2007, 10, 96-103.	0.4	47
8	Experimental investigation of dilute turbulent particulate flow inside a curved 90Â° bend. Chemical Engineering Science, 2006, 61, 3593-3601.	1.9	45
9	Measurement and CFD simulation of single-phase flow in solvent extraction pulsed column. Chemical Engineering Science, 2006, 61, 2930-2938.	1.9	42
10	Numerical Modeling of Victorian Brown Coal Combustion in a Tangentially Fired Furnace. Energy & Fuels, 2010, 24, 4971-4979.	2.5	39
11	Development of a novel pulsatile bioreactor for tissue culture. Journal of Artificial Organs, 2007, 10, 109-114.	0.4	33
12	Numerical simulation of the haemodynamics in endâ€toâ€side anastomoses. International Journal for Numerical Methods in Fluids, 2011, 67, 638-650.	0.9	33
13	CFD Modeling of Spray Atomization for a Nasal Spray Device. Aerosol Science and Technology, 2012, 46, 1219-1226.	1.5	32
14	External and Near-Nozzle Spray Characteristics of a Continuous Spray Atomized from a Nasal Spray Device. Aerosol Science and Technology, 2012, 46, 165-177.	1.5	29
15	Two-Phase CFD Model of the Bubble-Driven Flow in the Molten Electrolyte Layer of a Hallâ€“HÃ©roult Aluminum Cell. Metallurgical and Materials Transactions B: Process Metallurgy and Materials Processing Science, 2015, 46, 1959-1981.	1.0	29
16	Principal characteristics of a bubble formation on a horizontal downward facing surface. Colloids and Surfaces A: Physicochemical and Engineering Aspects, 2012, 411, 94-104.	2.3	28
17	Investigation of Anodic Gas Film Behavior in Hallâ€“Heroult Cell Using Low Temperature Electrolyte. Metallurgical and Materials Transactions B: Process Metallurgy and Materials Processing Science, 2013, 44, 1155-1165.	1.0	28
18	The effect of jet velocity ratio on aerodynamics of a rectangular slot-burner in the presence of cross-flow. Experimental Thermal and Fluid Science, 2007, 32, 362-374.	1.5	27

#	Article	IF	Citations
19	A Study of Particle Rebounding Characteristics of a Gasâ€“Particle Flow over a Curved Wall Surface. Aerosol Science and Technology, 2004, 38, 739-755.	1.5	26
20	Experimental and numerical study on the hemodynamics of stenosed carotid bifurcation. Australasian Physical and Engineering Sciences in Medicine, 2010, 33, 319-328.	1.4	26
21	External Characteristics of Unsteady Spray Atomization from a Nasal Spray Device. Journal of Pharmaceutical Sciences, 2013, 102, 1024-1035.	1.6	26
22	High Resolution Visualization and Analysis of Nasal Spray Drug Delivery. Pharmaceutical Research, 2014, 31, 1930-1937.	1.7	26
23	2D-PIV measurement of isothermal air jets from a multi-slot diffuser in aircraft cabin environment. Building and Environment, 2016, 99, 44-58.	3.0	26
24	Principal characteristics of turbulent gas-particulate flow in the vicinity of single tube and tube bundle structure. Chemical Engineering Science, 2004, 59, 3141-3157.	1.9	25
25	Development of Bubble Driven Flow CFD Model Applied for Aluminium Smelting Cells. Journal of Computational Multiphase Flows, 2010, 2, 179-188.	0.8	24
26	Combustion of Predried Brown Coal in a Tangentially Fired Furnace under Different Operating Conditions. Energy & Fuels, 2012, 26, 1044-1053.	2.5	23
27	PIV MEASUREMENTS AND NUMERICAL VALIDATION OF END-TO-SIDE ANASTOMOSIS. Journal of Mechanics in Medicine and Biology, 2010, 10, 123-138.	0.3	20
28	A pilot validation of CFD model results against PIV observations of haemodynamics in intracranial aneurysms treated with flow-diverting stents. Journal of Biomechanics, 2020, 100, 109590.	0.9	19
29	Influence of surface tension on bubble nucleation, formation and onset of sliding. Colloids and Surfaces A: Physicochemical and Engineering Aspects, 2017, 516, 23-31.	2.3	18
30	Experimental visualisation of wake flows induced by different shaped moving manikins. Building and Environment, 2018, 142, 361-370.	3.0	18
31	CFD study of single phase and multiphase (liquidâ€“liquid) pump-mixer: Analyzing design parameters, flow structures and turbulence. Chemical Engineering Science, 2012, 80, 55-69.	1.9	17
32	PIV experimental research on gasper jets interacting with the main ventilation in an aircraft cabin. Building and Environment, 2018, 138, 149-159.	3.0	17
33	Experimental observations of bubbleâ€“particle collisional interaction relevant to froth flotation, and calculation of the associated forces. Minerals Engineering, 2020, 151, 106335.	1.8	16
34	Measurements and numerical predictions of gas vortices formed by single bubble eruptions in the freeboard of a fluidised bed. Chemical Engineering Science, 2010, 65, 5808-5820.	1.9	15
35	Effect of Bileaflet Valve Orientation on the 3D Flow Dynamics in the Sinus of Valsalva. Journal of Biomechanical Science and Engineering, 2011, 6, 64-78.	0.1	15
36	A numerical assessment of bubble-induced electric resistance in aluminium electrolytic cells. Journal of Applied Electrochemistry, 2014, 44, 1081-1092.	1.5	15

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37	Experimental study of human thermal plumes in a small space via large-scale TR PIV system. International Journal of Heat and Mass Transfer, 2018, 127, 970-980.	2.5	15
38	Numerical and experimental studies of turbulent particle-laden gas flow in an in-line tube bank. Chemical Engineering Science, 1998, 53, 225-238.	1.9	14
39	Comparison of Two-Equation Turbulence Models in Simulation of a Non-Swirl Coal Flame in a Pilot-Scale Furnace. Combustion Science and Technology, 2009, 181, 954-983.	1.2	14
40	Polyethyleneterephthalate Provides Superior Retention of Endothelial Cells During Shear Stress Compared to Polytetrafluoroethylene and Pericardium. Heart Lung and Circulation, 2006, 15, 371-377.	0.2	13
41	A smoke visualisation technique for wake flow from a moving human manikin. Journal of Visualization, 2017, 20, 125-137.	1.1	12
42	Vortex structures and wake flow analysis from moving manikin models. Indoor and Built Environment, 2021, 30, 347-362.	1.5	12
43	Numerical simulation and validation of gas-particle rectangular jets in crossflow. Computers and Chemical Engineering, 2011, 35, 595-605.	2.0	11
44	Numerical simulation and structure verification of Jellyfish heart valve. International Journal of Computer Applications in Technology, 2004, 21, 2.	0.3	10
45	PIV measurement of human thermal convection flow in a simplified vehicle cabin. Building and Environment, 2018, 144, 305-315.	3.0	10
46	Modeling Issues in CFD Simulation of Brown Coal Combustion in a Utility Furnace. Journal of Computational Multiphase Flows, 2010, 2, 73-88.	0.8	9
47	Online Analysis of Stirring Processes in Ladle Metallurgy. Metallurgical and Materials Transactions B: Process Metallurgy and Materials Processing Science, 2010, 41, 1025-1032.	1.0	9
48	Flow pattern assessment and design optimisation for an industrial solvent extraction settler through in situ measurements and CFD modelling. Chemical Engineering Research and Design, 2016, 109, 200-214.	2.7	8
49	Experimental characterisation of AusIron top submerged injection system. Ironmaking and Steelmaking, 2008, 35, 69-74.	1.1	5
50	Rapid image analysis of ladle eye area using threshold technique. Ironmaking and Steelmaking, 2010, 37, 620-623.	1.1	5
51	Investigation of aerodynamics of a recessed rectangular slot-burner used in tangentially-fired furnaces by varying jet velocity ratio in the presence of cross-flow. Experimental Thermal and Fluid Science, 2015, 68, 109-122.	1.5	5
52	Sensitivity study on modelling a flow-diverting stent as a porous medium using computational fluid dynamics. , 2017, 2017, 3389-3392.		5
53	CFD Simulation of a Solvent Extraction Pump Mixer Unit: Evaluating Large Eddy Simulation and RANS Based Models. Journal of Computational Multiphase Flows, 2010, 2, 165-178.	0.8	4
54	Flow mapping of full scale solvent extraction settlers using pulsed Doppler UVP technique. Chemical Engineering Science, 2013, 104, 925-933.	1.9	4

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55	Unsteady dynamic analysis for the cavitating hydrofoils based on OpenFOAM. Experimental and Computational Multiphase Flow, 2019, 1, 101-108.	1.9	4
56	Investigation of Electrolytic Bubble Behaviour in Aluminum Smelting Cell. Minerals, Metals and Materials Series, 2003, , 591-596.	0.3	4
57	Numerical characterisation and experimental validation of AusIron top submerged multi-injection system. Ironmaking and Steelmaking, 2008, 35, 91-98.	1.1	3
58	Prediction of Bubble Generation Based on Acoustic Emission. Acoustics Australia, 2016, 44, 325-331.	1.4	3
59	Numerical Modelling of Pulverised Coal Combustion. , 2017, , 1-35.		1
60	Cardiovascular haemodynamics: Advancement of numerical and experimental diagnostic tools. Advances in Mechanical Engineering, 2015, 7, 168781401558124.	0.8	0
61	Numerical Modelling of Pulverised Coal Combustion. , 2016, , 1-36.		0