William W Yang

List of Publications by Year
in descending order

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

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

#	Article	IF	Citations
1	Vortex structures and wake flow analysis from moving manikin models. Indoor and Built Environment, 2021, 30, 347-362.	1.5	12
2	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
3	Experimental observations of bubble–particle collisional interaction relevant to froth flotation, and calculation of the associated forces. Minerals Engineering, 2020, 151, 106335.	1.8	16
4	Unsteady dynamic analysis for the cavitating hydrofoils based on OpenFOAM. Experimental and Computational Multiphase Flow, 2019, 1, 101-108.	1.9	4
5	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
6	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
7	PIV measurement of human thermal convection flow in a simplified vehicle cabin. Building and Environment, 2018, 144, 305-315.	3.0	10
8	Experimental visualisation of wake flows induced by different shaped moving manikins. Building and Environment, 2018, 142, 361-370.	3.0	18
9	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
10	A smoke visualisation technique for wake flow from a moving human manikin. Journal of Visualization, 2017, 20, 125-137.	1.1	12
11	Sensitivity study on modelling a flow-diverting stent as a porous medium using computational fluid dynamics. , 2017, 2017, 3389-3392.		5
12	Numerical Modelling of Pulverised Coal Combustion. , 2017, , 1-35.		1
13	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
14	Prediction of Bubble Generation Based on Acoustic Emission. Acoustics Australia, 2016, 44, 325-331.	1.4	3
15	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
16	Numerical Modelling of Pulverised Coal Combustion. , 2016, , 1-36.		0
17	Cardiovascular haemodynamics: Advancement of numerical and experimental diagnostic tools. Advances in Mechanical Engineering, 2015, 7, 168781401558124.	0.8	0
18	Two-Phase CFD Model of the Bubble-Driven Flow in the Molten Electrolyte Layer of a Hall–Héroult Aluminum Cell. Metallurgical and Materials Transactions B: Process Metallurgy and Materials Processing Science, 2015, 46, 1959-1981.	1.0	29

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19	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
20	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
21	High Resolution Visualization and Analysis of Nasal Spray Drug Delivery. Pharmaceutical Research, 2014, 31, 1930-1937.	1.7	26
22	A numerical assessment of bubble-induced electric resistance in aluminium electrolytic cells. Journal of Applied Electrochemistry, 2014, 44, 1081-1092.	1.5	15
23	Investigation of Anodic Gas Film Behavior in Hall–Heroult Cell Using Low Temperature Electrolyte. Metallurgical and Materials Transactions B: Process Metallurgy and Materials Processing Science, 2013, 44, 1155-1165.	1.0	28
24	Flow mapping of full scale solvent extraction settlers using pulsed Doppler UVP technique. Chemical Engineering Science, 2013, 104, 925-933.	1.9	4
25	External Characteristics of Unsteady Spray Atomization from a Nasal Spray Device. Journal of Pharmaceutical Sciences, 2013, 102, 1024-1035.	1.6	26
26	CFD Modeling of Spray Atomization for a Nasal Spray Device. Aerosol Science and Technology, 2012, 46, 1219-1226.	1.5	32
27	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
28	Combustion of Predried Brown Coal in a Tangentially Fired Furnace under Different Operating Conditions. Energy & Fuels, 2012, 26, 1044-1053.	2.5	23
29	CFD study of single phase and multiphase (liquid–liquid) pump-mixer: Analyzing design parameters, flow structures and turbulence. Chemical Engineering Science, 2012, 80, 55-69.	1.9	17
30	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
31	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
32	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
33	Numerical simulation of the haemodynamics in end–to–side anastomoses. International Journal for Numerical Methods in Fluids, 2011, 67, 638-650.	0.9	33
34	Numerical simulation and validation of gas-particle rectangular jets in crossflow. Computers and Chemical Engineering, 2011, 35, 595-605.	2.0	11
35	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
36	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

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37	Development of Bubble Driven Flow CFD Model Applied for Aluminium Smelting Cells. Journal of Computational Multiphase Flows, 2010, 2, 179-188.	0.8	24
38	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
39	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
40	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
41	PIV MEASUREMENTS AND NUMERICAL VALIDATION OF END-TO-SIDE ANASTOMOSIS. Journal of Mechanics in Medicine and Biology, 2010, 10, 123-138.	0.3	20
42	Rapid image analysis of ladle eye area using threshold technique. Ironmaking and Steelmaking, 2010, 37, 620-623.	1.1	5
43	Numerical Modeling of Victorian Brown Coal Combustion in a Tangentially Fired Furnace. Energy & Fuels, 2010, 24, 4971-4979.	2.5	39
44	Characterization of Cold Spray Titanium Supersonic Jet. Journal of Thermal Spray Technology, 2009, 18, 110-117.	1.6	53
45	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
46	Optimising nasal spray parameters for efficient drug delivery using computational fluid dynamics. Computers in Biology and Medicine, 2008, 38, 713-726.	3.9	83
47	Experimental characterisation of AusIron top submerged injection system. Ironmaking and Steelmaking, 2008, 35, 69-74.	1.1	5
48	Numerical characterisation and experimental validation of AusIron top submerged multi-injection system. Ironmaking and Steelmaking, 2008, 35, 91-98.	1.1	3
49	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
50	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
51	Development of a novel pulsatile bioreactor for tissue culture. Journal of Artificial Organs, 2007, 10, 109-114.	0.4	33
52	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
53	A Numerical Study of Spray Particle Deposition in a Human Nasal Cavity. Aerosol Science and Technology, 2006, 40, 1034-1045.	1.5	116
54	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

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55	Measurement and CFD simulation of single-phase flow in solvent extraction pulsed column. Chemical Engineering Science, 2006, 61, 2930-2938.	1.9	42
56	Experimental investigation of dilute turbulent particulate flow inside a curved 90° bend. Chemical Engineering Science, 2006, 61, 3593-3601.	1.9	45
57	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
58	A Study of Particle Rebounding Characteristics of a Gas–Particle Flow over a Curved Wall Surface. Aerosol Science and Technology, 2004, 38, 739-755.	1.5	26
59	Numerical simulation and structure verification of Jellyfish heart valve. International Journal of Computer Applications in Technology, 2004, 21, 2.	0.3	10
60	Investigation of Electrolytic Bubble Behaviour in Aluminum Smelting Cell. Minerals, Metals and Materials Series, 2003, , 591-596.	0.3	4
61	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