Fabio Inzoli

List of Publications by Year
in descending order

88 papers	**3,217** citations	147726 **31** h-index	155592 **55** g-index
88 all docs	**88** docs citations	**88** times ranked	**2552** citing authors

#	Article	IF	Citations
1	The influence of Variable Geometry Control on a R290 Ejector Refrigeration System. Journal of Physics: Conference Series, 2022, 2177, 012010.	0.3	0
2	Computational fluid-dynamics modelling of supersonic ejectors: Screening of modelling approaches, comprehensive validation and assessment of ejector component efficiencies. Applied Thermal Engineering, 2021, 186, 116431.	3.0	44
3	Multi-scale evaluation of ejector performances: The influence of refrigerants and ejector design. Applied Thermal Engineering, 2021, 186, 116502.	3.0	23
4	Multi-scale performance evaluation of ejector refrigeration systems. Journal of Physics: Conference Series, 2021, 1868, 012013.	0.3	0
5	Analysis of the performance of a crude-oil desalting system based on historical data. Fuel, 2021, 291, 120046.	3.4	21
6	Computational fluid dynamic modelling of supersonic ejectors: comparison between 2D and 3D modelling. Journal of Physics: Conference Series, 2021, 2116, 012091.	0.3	1
7	Experimental study of the liquid velocity and turbulence in a large-scale air-water counter-current bubble column. Experimental Thermal and Fluid Science, 2020, 111, 109955.	1.5	5
8	Implementation of Three-Phase Black-Oil Reservoir Models Assisted by Micro-Scale Analyses. , 2020, , .		0
9	Multiphase numerical modeling of a pilot-scale bubble column with a fixed poly-dispersity approach. International Journal of Multiphase Flow, 2020, 128, 103287.	1.6	4
10	Combining Two- and Three-Phase Coreflooding Experiments for Reservoir Simulation Under WAG Practices. , 2020, , .		2
11	Refrigerant selection for ejector refrigeration systems: a multiscale evaluation. E3S Web of Conferences, 2020, 197, 10011.	0.2	1
12	Design and thermoeconomic analysis of a multi-effect desalination unit equipped with a cryogenic refrigeration system. Energy Conversion and Management, 2019, 202, 112208.	4.4	39
13	Pore-scale velocities in three-dimensional porous materials with trapped immiscible fluid. Physical Review E, 2019, 100, 043101.	0.8	10
14	Scale-resolving CFD modeling of a thick wind turbine airfoil with application of vortex generators: Validation and sensitivity analyses. Energy, 2019, 187, 115969.	4.5	21
15	Bubble sizes and shapes in a counter-current bubble column with pure and binary liquid phases. Flow Measurement and Instrumentation, 2019, 67, 55-82.	1.0	22
16	Prediction of Bubble Size Distributions in Large-Scale Bubble Columns Using a Population Balance Model. Computation, 2019, 7, 17.	1.0	8
17	Hysteresis effects of three-phase relative permeabilities on black-oil reservoir simulation under WAG injection protocols. Journal of Petroleum Science and Engineering, 2019, 176, 1161-1174.	2.1	17
18	The pseudo-homogeneous flow regime in large-scale bubble columns: experimental benchmark and computational fluid dynamics modeling. Petroleum, 2019, 5, 141-160.	1.3	6

#	Article	IF	Citations
19	On the scale-up criteria for bubble columns. Petroleum, 2019, 5, 114-122.	1.3	35
20	Computational fluid-dynamic modeling of the mono-dispersed homogeneous flow regime in bubble columns. Nuclear Engineering and Design, 2018, 331, 222-237.	0.8	19
21	Editorial: 5th micro and nano flows conference 2016. Applied Thermal Engineering, 2018, 129, 242.	3.0	0
22	Effect of gas sparger design on bubble column hydrodynamics using pure and binary liquid phases. Chemical Engineering Science, 2018, 176, 116-126.	1.9	38
23	Computational Fluid Dynamics Modeling of Flashing Flow in Convergent-Divergent Nozzle. Journal of Fluids Engineering, Transactions of the ASME, 2018, 140, .	0.8	22
24	Two-Phase Bubble Columns: A Comprehensive Review. ChemEngineering, 2018, 2, 13.	1.0	83
25	The Bubble Shape in Contaminated Bubbly Flows: Results for Different NaCl Concentrations in Purified Water. ChemEngineering, 2018, 2, 18.	1.0	6
26	Analysis of flow field design on vanadium redox flow battery performance: Development of 3D computational fluid dynamic model and experimental validation. Applied Energy, 2018, 228, 1057-1070.	5.1	124
27	CFD study of Savonius wind turbine: 3D model validation and parametric analysis. Renewable Energy, 2017, 105, 722-734.	4.3	117
28	Computational fluid-dynamics modeling of supersonic ejectors: Screening of turbulence modeling approaches. Applied Thermal Engineering, 2017, 117, 122-144.	3.0	138
29	The effect of aspect ratio in counter-current gas-liquid bubble columns: Experimental results and gas holdup correlations. International Journal of Multiphase Flow, 2017, 94, 53-78.	1.6	60
30	Application of an integrated lumped parameter-CFD approach to evaluate the ejector-driven anode recirculation in a PEM fuel cell system. Applied Thermal Engineering, 2017, 121, 628-651.	3.0	75
31	Nanocrystalline diamond produced by direct current micro-plasma: Investigation of growth dynamics. Diamond and Related Materials, 2017, 74, 212-221.	1.8	13
32	The effect of liquid phase properties on bubble column fluid dynamics: Gas holdup, flow regime transition, bubble size distributions and shapes, interfacial areas and foaming phenomena. Chemical Engineering Science, 2017, 170, 270-296.	1.9	81
33	The effect of electrolyte concentration on counter-current gas–liquid bubble column fluid dynamics: Gas holdup, flow regime transition and bubble size distributions. Chemical Engineering Research and Design, 2017, 118, 170-193.	2.7	35
34	Prediction of gas–liquid flow in an annular gap bubble column using a bi-dispersed Eulerian model. Chemical Engineering Science, 2017, 161, 138-150.	1.9	50
35	Early stages of diamond growth on substrates with different carbon diffusivity. Diamond and Related Materials, 2017, 80, 69-75.	1.8	5
36	Application of computational fluid dynamics to the analysis of geometrical features in PEM fuel cells flow fields with the aid of impedance spectroscopy. Applied Energy, 2017, 205, 670-682.	5.1	38

#	Article	IF	Citations
37	Identifiability of parameters of three-phase oil relative permeability models under simultaneous water and gas (SWAG) injection. Journal of Petroleum Science and Engineering, 2017, 159, 942-951.	2.1	10
38	Parametric numerical study of Savonius wind turbine interaction in a linear array. Renewable Energy, 2017, 113, 1320-1332.	4.3	51
39	The dual effect of viscosity on bubble column hydrodynamics. Chemical Engineering Science, 2017, 158, 509-538.	1.9	103
40	Computational Fluid-Dynamic modeling of the pseudo-homogeneous flow regime in large-scale bubble columns. Chemical Engineering Science, 2017, 160, 144-160.	1.9	55
41	Influence of capillary end effects on steady-state relative permeability estimates from direct pore-scale simulations. Physics of Fluids, 2017, 29, .	1.6	17
42	Estimation of bubble size distributions and shapes in two-phase bubble column using image analysis and optical probes. Flow Measurement and Instrumentation, 2016, 52, 190-207.	1.0	79
43	Comprehensive experimental investigation of counter-current bubble column hydrodynamics: Holdup, flow regime transition, bubble size distributions and local flow properties. Chemical Engineering Science, 2016, 146, 259-290.	1.9	102
44	Characterization of two- and three-phase relative permeability of water-wet porous media through X-Ray saturation measurements. Journal of Petroleum Science and Engineering, 2016, 145, 453-463.	2.1	26
45	A hydraulic monitoring system on a bridge over the River Esino, Italy. Journal of Civil Structural Health Monitoring, 2016, 6, 377-384.	2.0	4
46	Influence of internals on counter-current bubble column hydrodynamics: Holdup, flow regime transition and local flow properties. Chemical Engineering Science, 2016, 145, 162-180.	1.9	40
47	Experimental and numerical study of freezing and flow characteristics of Wood's Metal injection in a water pool. Applied Thermal Engineering, 2016, 103, 1261-1277.	3.0	11
48	Experimental investigation on the influence of ethanol on bubble column hydrodynamics. Chemical Engineering Research and Design, 2016, 112, 1-15.	2.7	40
49	Annular Gap Bubble Column: Experimental Investigation and Computational Fluid Dynamics Modeling. Journal of Fluids Engineering, Transactions of the ASME, 2016, 138, .	0.8	35
50	Bubble size distributions and shapes in annular gap bubble column. Experimental Thermal and Fluid Science, 2016, 74, 27-48.	1.5	106
51	Ejector refrigeration: A comprehensive review. Renewable and Sustainable Energy Reviews, 2016, 53, 373-407.	8.2	372
52	Laboratory-scale Investigation of Two-phase Relative Permeability. Procedia Environmental Sciences, 2015, 25, 166-174.	1.3	3
53	Influence of electrolyte concentration on holdup, flow regime transition and local flow properties in a large scale bubble column. Journal of Physics: Conference Series, 2015, 655, 012039.	0.3	11
54	Direct numerical simulation of fully saturated flow in natural porous media at the pore scale: a comparison of three computational systems. Computational Geosciences, 2015, 19, 423-437.	1.2	12

#	Article	IF	Citations
55	Interpretation of two-phase relative permeability curves through multiple formulations and Model Quality criteria. Journal of Petroleum Science and Engineering, 2015, 135, 738-749.	2.1	21
56	CFD study of ejector flow behavior in a blast furnace gas galvanizing plant. Journal of Thermal Science, 2015, 24, 58-66.	0.9	16
57	A study of working fluids for heat driven ejector refrigeration using lumped parameter models. International Journal of Refrigeration, 2015, 58, 154-171.	1.8	46
58	An Integrated Lumped Parameter-CFD approach for off-design ejector performance evaluation. Energy Conversion and Management, 2015, 105, 697-715.	4.4	92
59	CFD study of an airâ€"water flow inside helically coiled pipes. Progress in Nuclear Energy, 2015, 85, 462-472.	1.3	15
60	Experimental and Numerical Study of Counter-Current Flow in a Vertical Pipe. , 2014, , .		2
61	Preliminary Fluid Dynamic Analysis of Turbulent Flat and Ribbed Square Duct via CFD Approach. , 2014, , .		1
62	Experimental investigation of counter current air-water flow in a large diameter vertical pipe with inners. Journal of Physics: Conference Series, 2014, 547, 012024.	0.3	16
63	Large Eddy Simulation of the Flow and Heat Transfer in a Matrix of Cubes. , 2014, , .		0
64	A dynamic mixed subgrid-scale model for large eddy simulation on unstructured grids: application to turbulent pipe flows. Journal of Physics: Conference Series, 2014, 501, 012020.	0.3	0
65	Numerical analysis of fluid dynamics and thermal characteristics inside a wavy channel. International Journal of Numerical Methods for Heat and Fluid Flow, 2013, 23, 1049-1062.	1.6	11
66	A methodology for qualifying industrial CFD: The Q3 approach and the role of a protocol. Computers and Fluids, 2012, 54, 56-66.	1.3	20
67	URANS Simulation of Confined Parallel Jet Mixing. Nuclear Technology, 2011, 175, 538-552.	0.7	2
68	Numerical Study of a Compact Wavy Heat Exchanger. , 2011, , .		1
69	Bless: A fiber optic sedimeter. Flow Measurement and Instrumentation, 2011, 22, 447-455.	1.0	16
70	Numerical Investigation of Countercurrent Two-Phase Flows Using Three-Dimensional Volume-of-Fluid Simulations. , 2011, , .		0
71	Bridge pier scour measurement by means of Bragg grating arrays. EPJ Web of Conferences, 2010, 6, 34004.	0.1	0
72	Multiphase Eulerâ€"Lagrange CFD simulation applied to Wet Flue Gas Desulphurisation technology. International Journal of Multiphase Flow, 2009, 35, 185-194.	1.6	81

#	Article	IF	Citations
73	Non Linear Eddy Viscosity Model Applied to U-Bend Industrial Geometry. , 2009, , .		1
74	Thermal and mechanical degradation during polymer extrusion processing. Polymer Engineering and Science, 2007, 47, 1813-1819.	1.5	106
75	Computational fluid dynamic model of a tapered Holweck vacuum pump operating in the viscous and transition regimes. I. Vacuum performance. Journal of Vacuum Science and Technology A: Vacuum,	0.9	12
76	Determination of a minimum path. <img src="g1-si53.gif" display="inline" overflow="scroll" xmlns:xocs="http://www.elsevier.com/xml/xocs/dtd" xmlns:xs="http://www.w3.org/2001/XMLSchema" xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance" xmlns="http://www.elsevier.com/xml/ja/dtd" xmlns:ja="http://www.elsevier.com/xml/ja/dtd" xmlns:mml="http://www.w3.org/1998/Math/MathML" xmlns:tb="http://www.elsevier.com/xml/common/table/dtd" xmlns:sb="http://www.elsevier.com/xml/common/struct-bib/dtd" xmlns:ce="http://www.elsevier.c. Che	1.9	76
77	Coextruded PVC tubes for biomedical application. Journal of Vinyl and Additive Technology, 2005, 11, 111-118.	1.8	18
78	Free Jet in Confined Combustion Chamber: Numerical Model for Industrial Application in Low NOx Burners. , 2005, , 735.		0
79	Development of a New Disposable Pulsatile Pump for Cardiopulmonary Bypass: Computational Fluid-Dynamic Design and In Vitro Tests. ASAIO Journal, 2002, 48, 260-267.	0.9	17
80	SIMULATION OF HEMODYNAMICS IN PULSATILE EXTRACORPO-REAL CIRCULATION. ASAIO Journal, 2002, 48, 154.	0.9	0
81	Biomechanics of abdominal aortic aneurysm in the presence of endoluminal thrombus: Experimental characterisation and structural static computational analysis. European Journal of Vascular and Endovascular Surgery, 1998, 15, 290-299.	0.8	168
82	The assignment of velocity profiles in finite element simulations of pulsatile flow in arteries. Computers in Biology and Medicine, 1997, 27, 233-247.	3.9	20
83	Numerical Analysis of Steady Flow in Aorto-Coronary Bypass 3-D Model. Journal of Biomechanical Engineering, 1996, 118, 172-179.	0.6	29
84	Preliminary Design and Optimization of an ECC Blood Pump by Means of a Parametric Approach. Artificial Organs, 1995, 19, 685-690.	1.0	4
85	Computational analysis of the fluid dynamics of a pulsatile flow in an elastic tube. Journal of Biomechanics, 1994, 27, 861.	0.9	1
86	Biomechanical factors in abdominal aortic aneurysm rupture. European Journal of Vascular Surgery, 1993, 7, 667-674.	0.9	155
87	Simulation study of the fluid dynamics of aorto-coronary bypass. Journal of Biomedical Engineering, 1990, 12, 419-424.	0.7	30
88	Optimization of a new thermoelectric cooling assembly using CFD analysis and local modeling of thermoelectric effects. , 0, , .		0