Fabio Inzoli

List of Publications by Year in descending order

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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	Ejector refrigeration: A comprehensive review. Renewable and Sustainable Energy Reviews, 2016, 53, 373-407.	8.2	372
2	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
3	Biomechanical factors in abdominal aortic aneurysm rupture. European Journal of Vascular Surgery, 1993, 7, 667-674.	0.9	155
4	Computational fluid-dynamics modeling of supersonic ejectors: Screening of turbulence modeling approaches. Applied Thermal Engineering, 2017, 117, 122-144.	3.0	138
5	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
6	CFD study of Savonius wind turbine: 3D model validation and parametric analysis. Renewable Energy, 2017, 105, 722-734.	4.3	117
7	Thermal and mechanical degradation during polymer extrusion processing. Polymer Engineering and Science, 2007, 47, 1813-1819.	1.5	106
8	Bubble size distributions and shapes in annular gap bubble column. Experimental Thermal and Fluid Science, 2016, 74, 27-48.	1.5	106
9	The dual effect of viscosity on bubble column hydrodynamics. Chemical Engineering Science, 2017, 158, 509-538.	1.9	103
10	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
11	An Integrated Lumped Parameter-CFD approach for off-design ejector performance evaluation. Energy Conversion and Management, 2015, 105, 697-715.	4.4	92
12	Two-Phase Bubble Columns: A Comprehensive Review. ChemEngineering, 2018, 2, 13.	1.0	83
13	Multiphase Eulerâ€“Lagrange CFD simulation applied to Wet Flue Gas Desulphurisation technology. International Journal of Multiphase Flow, 2009, 35, 185-194.	1.6	81
14	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
15	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
16	Determination of <mml:math altimg="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
17	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
18	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

#	Article	IF	Citations
19	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
20	Parametric numerical study of Savonius wind turbine interaction in a linear array. Renewable Energy, 2017, 113, 1320-1332.	4.3	51
21	Prediction of gasâ€“liquid flow in an annular gap bubble column using a bi-dispersed Eulerian model. Chemical Engineering Science, 2017, 161, 138-150.	1.9	50
22	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
23	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
24	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
25	Experimental investigation on the influence of ethanol on bubble column hydrodynamics. Chemical Engineering Research and Design, 2016, 112, 1-15.	2.7	40
26	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
27	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
28	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
29	Annular Gap Bubble Column: Experimental Investigation and Computational Fluid Dynamics Modeling. Journal of Fluids Engineering, Transactions of the ASME, 2016, 138, .	0.8	35
30	The effect of electrolyte concentration on counter-current gasâ€“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
31	On the scale-up criteria for bubble columns. Petroleum, 2019, 5, 114-122.	1.3	35
32	Simulation study of the fluid dynamics of aorto-coronary bypass. Journal of Biomedical Engineering, 1990, 12, 419-424.	0.7	30
33	Numerical Analysis of Steady Flow in Aorto-Coronary Bypass 3-D Model. Journal of Biomechanical Engineering, 1996, 118, 172-179.	0.6	29
34	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
35	Multi-scale evaluation of ejector performances: The influence of refrigerants and ejector design. Applied Thermal Engineering, 2021, 186, 116502.	3.0	23
36	Computational Fluid Dynamics Modeling of Flashing Flow in Convergent-Divergent Nozzle. Journal of Fluids Engineering, Transactions of the ASME, 2018, 140, .	0.8	22

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37	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
38	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
39	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
40	Analysis of the performance of a crude-oil desalting system based on historical data. Fuel, 2021, 291, 120046.	3.4	21
41	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
42	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
43	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
44	Coextruded PVC tubes for biomedical application. Journal of Vinyl and Additive Technology, 2005, 11, 111-118.	1.8	18
45	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
46	Influence of capillary end effects on steady-state relative permeability estimates from direct pore-scale simulations. Physics of Fluids, 2017, 29, .	1.6	17
47	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
48	Bless: A fiber optic sedimeter. Flow Measurement and Instrumentation, 2011, 22, 447-455.	1.0	16
49	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
50	CFD study of ejector flow behavior in a blast furnace gas galvanizing plant. Journal of Thermal Science, 2015, 24, 58-66.	0.9	16
51	CFD study of an airâ€“water flow inside helically coiled pipes. Progress in Nuclear Energy, 2015, 85, 462-472.	1.3	15
52	Nanocrystalline diamond produced by direct current micro-plasma: Investigation of growth dynamics. Diamond and Related Materials, 2017, 74, 212-221.	1.8	13
53	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, Surfaces and Films, 2006, 24, 1584-1591.	0.9	12
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

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55	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
56	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
57	Experimental and numerical study of freezing and flow characteristics of Woodâ€™s Metal injection in a water pool. Applied Thermal Engineering, 2016, 103, 1261-1277.	3.0	11
58	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
59	Pore-scale velocities in three-dimensional porous materials with trapped immiscible fluid. Physical Review E, 2019, 100, 043101.	0.8	10
60	Prediction of Bubble Size Distributions in Large-Scale Bubble Columns Using a Population Balance Model. Computation, 2019, 7, 17.	1.0	8
61	The Bubble Shape in Contaminated Bubbly Flows: Results for Different NaCl Concentrations in Purified Water. ChemEngineering, 2018, 2, 18.	1.0	6
62	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
63	Early stages of diamond growth on substrates with different carbon diffusivity. Diamond and Related Materials, 2017, 80, 69-75.	1.8	5
64	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
65	Preliminary Design and Optimization of an ECC Blood Pump by Means of a Parametric Approach. Artificial Organs, 1995, 19, 685-690.	1.0	4
66	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
67	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
68	Laboratory-scale Investigation of Two-phase Relative Permeability. Procedia Environmental Sciences, 2015, 25, 166-174.	1.3	3
69	URANS Simulation of Confined Parallel Jet Mixing. Nuclear Technology, 2011, 175, 538-552.	0.7	2
70	Experimental and Numerical Study of Counter-Current Flow in a Vertical Pipe. , 2014, , .		2
71	Combining Two- and Three-Phase Coreflooding Experiments for Reservoir Simulation Under WAG Practices. , 2020, , .		2
72	Computational analysis of the fluid dynamics of a pulsatile flow in an elastic tube. Journal of Biomechanics, 1994, 27, 861.	0.9	1

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73	Numerical Study of a Compact Wavy Heat Exchanger. , 2011, , .		1
74	Preliminary Fluid Dynamic Analysis of Turbulent Flat and Ribbed Square Duct via CFD Approach. , 2014, , .		1
75	Refrigerant selection for ejector refrigeration systems: a multiscale evaluation. E3S Web of Conferences, 2020, 197, 10011.	0.2	1
76	Non Linear Eddy Viscosity Model Applied to U-Bend Industrial Geometry. , 2009, , .		1
77	Computational fluid dynamic modelling of supersonic ejectors: comparison between 2D and 3D modelling. Journal of Physics: Conference Series, 2021, 2116, 012091.	0.3	1
78	Optimization of a new thermoelectric cooling assembly using CFD analysis and local modeling of thermoelectric effects. , 0, , .		0
79	Free Jet in Confined Combustion Chamber: Numerical Model for Industrial Application in Low NOx Burners. , 2005, , 735.		0
80	Bridge pier scour measurement by means of Bragg grating arrays. EPJ Web of Conferences, 2010, 6, 34004.	0.1	0
81	Numerical Investigation of Countercurrent Two-Phase Flows Using Three-Dimensional Volume-of-Fluid Simulations. , 2011, , .		0
82	Large Eddy Simulation of the Flow and Heat Transfer in a Matrix of Cubes. , 2014, , .		0
83	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
84	Editorial: 5th micro and nano flows conference 2016. Applied Thermal Engineering, 2018, 129, 242.	3.0	0
85	Implementation of Three-Phase Black-Oil Reservoir Models Assisted by Micro-Scale Analyses. , 2020, , .		0
86	Multi-scale performance evaluation of ejector refrigeration systems. Journal of Physics: Conference Series, 2021, 1868, 012013.	0.3	0
87	SIMULATION OF HEMODYNAMICS IN PULSATILE EXTRACORPO-REAL CIRCULATION. ASAIO Journal, 2002, 48, 154.	0.9	0
88	The influence of Variable Geometry Control on a R290 Ejector Refrigeration System. Journal of Physics: Conference Series, 2022, 2177, 012010.	0.3	0