

David F Fletcher

List of Publications by Year in descending order

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289
papers

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citations

26626

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87
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297
all docs

297
docs citations

297
times ranked

6228
citing authors

#	ARTICLE	IF	CITATIONS
1	On the CFD modelling of Taylor flow in microchannels. <i>Chemical Engineering Science</i> , 2009, 64, 2941-2950.	3.8	303
2	Spiral wound modules and spacers. <i>Journal of Membrane Science</i> , 2004, 242, 129-153.	8.2	297
3	Flow boiling heat transfer of Freon R11 and HCFC123 in narrow passages. <i>International Journal of Heat and Mass Transfer</i> , 2000, 43, 3347-3358.	4.8	277
4	Modeling turbulent flow in stirred tanks with CFD: the influence of the modeling approach, turbulence model and numerical scheme. <i>Experimental Thermal and Fluid Science</i> , 2004, 28, 431-445.	2.7	209
5	Flow and mixing fields of turbulent bluff-body jets and flames. <i>Combustion Theory and Modelling</i> , 1998, 2, 193-219.	1.9	184
6	Effect of Design on the Performance of a Dry Powder Inhaler Using Computational Fluid Dynamics. Part 1: Grid Structure and Mouthpiece Length. <i>Journal of Pharmaceutical Sciences</i> , 2004, 93, 2863-2876.	3.3	169
7	Design of micromixers using CFD modelling. <i>Chemical Engineering Science</i> , 2005, 60, 2503-2516.	3.8	165
8	Techniques for computational fluid dynamics modelling of flow in membrane channels. <i>Journal of Membrane Science</i> , 2003, 211, 127-137.	8.2	158
9	Physical and numerical modelling of thunderstorm downbursts. <i>Journal of Wind Engineering and Industrial Aerodynamics</i> , 2001, 89, 535-552.	3.9	155
10	A New Volume of Fluid Advection Algorithm: The Stream Scheme. <i>Journal of Computational Physics</i> , 2000, 162, 1-32.	3.8	150
11	Influence of Air Flow on the Performance of a Dry Powder Inhaler Using Computational and Experimental Analyses. <i>Pharmaceutical Research</i> , 2005, 22, 1445-1453.	3.5	148
12	Local condensation heat transfer rates in fine passages. <i>International Journal of Heat and Mass Transfer</i> , 2003, 46, 4453-4466.	4.8	134
13	A CFD based combustion model of an entrained flow biomass gasifier. <i>Applied Mathematical Modelling</i> , 2000, 24, 165-182.	4.2	131
14	Taylor Flow in Microchannels: A Review of Experimental and Computational Work. <i>Journal of Computational Multiphase Flows</i> , 2010, 2, 1-31.	0.8	128
15	Simulation of the Flow around Spacer Filaments between Channel Walls. 2. Mass-Transfer Enhancement. <i>Industrial & Engineering Chemistry Research</i> , 2002, 41, 4879-4888.	3.7	126
16	CFD modelling of flow and heat transfer in the Taylor flow regime. <i>Chemical Engineering Science</i> , 2010, 65, 2094-2107.	3.8	119
17	Arterial Pulsation-driven Cerebrospinal Fluid Flow in the Perivascular Space: A Computational Model. <i>Computer Methods in Biomechanics and Biomedical Engineering</i> , 2003, 6, 235-241.	1.6	117
18	Characterization of the Mixing Quality in Micromixers. <i>Chemical Engineering and Technology</i> , 2003, 26, 1262-1270.	1.5	114

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19	Effect of design on the performance of a dry powder inhaler using computational fluid dynamics. Part 2: Air inlet size. <i>Journal of Pharmaceutical Sciences</i> , 2006, 95, 1382-1392.	3.3	114
20	Simulation of the Flow around Spacer Filaments between Narrow Channel Walls. 1. Hydrodynamics. <i>Industrial & Engineering Chemistry Research</i> , 2002, 41, 2977-2987.	3.7	109
21	Spray drying of food ingredients and applications of CFD in spray drying. <i>Chemical Engineering and Processing: Process Intensification</i> , 2001, 40, 345-354.	3.6	108
22	CFD approaches for the simulation of hydrodynamics and heat transfer in Taylor flow. <i>Chemical Engineering Science</i> , 2011, 66, 5575-5584.	3.8	106
23	A CFD study of unsteady flow in narrow spacer-filled channels for spiral-wound membrane modules. <i>Desalination</i> , 2002, 146, 195-201.	8.2	105
24	Effect of Axial Agitator Configuration (Up-Pumping, Down-Pumping, Reverse Rotation) on Flow Patterns Generated in Stirred Vessels. <i>Chemical Engineering Research and Design</i> , 2001, 79, 845-856.	5.6	103
25	What is important in the simulation of spray dryer performance and how do current CFD models perform?. <i>Applied Mathematical Modelling</i> , 2006, 30, 1281-1292.	4.2	102
26	The influence of the relative timing of arterial and subarachnoid space pulse waves on spinal perivascular cerebrospinal fluid flow as a possible factor in syrinx development. <i>Journal of Neurosurgery</i> , 2010, 112, 808-813.	1.6	102
27	Influence of Mouthpiece Geometry on the Aerosol Delivery Performance of a Dry Powder Inhaler. <i>Pharmaceutical Research</i> , 2007, 24, 1450-1456.	3.5	101
28	Validation of a CFD model of Taylor flow hydrodynamics and heat transfer. <i>Chemical Engineering Science</i> , 2012, 69, 541-552.	3.8	101
29	The Role of Capsule on the Performance of a Dry Powder Inhaler Using Computational and Experimental Analyses. <i>Pharmaceutical Research</i> , 2005, 22, 923-932.	3.5	100
30	An assessment of different turbulence models for predicting flow in a baffled tank stirred with a Rushton turbine. <i>Chemical Engineering Science</i> , 2011, 66, 5976-5988.	3.8	97
31	Laminar flow and heat transfer in a periodic serpentine channel with semi-circular cross-section. <i>International Journal of Heat and Mass Transfer</i> , 2006, 49, 2912-2923.	4.8	94
32	PIV measurements of flow in an aerated tank stirred by a down- and an up-pumping axial flow impeller. <i>Experimental Thermal and Fluid Science</i> , 2004, 28, 447-456.	2.7	91
33	A new volume of fluid advection algorithm: the defined donating region scheme. <i>International Journal for Numerical Methods in Fluids</i> , 2001, 35, 151-172.	1.6	90
34	Subcooled flow boiling heat transfer in narrow passages. <i>International Journal of Heat and Mass Transfer</i> , 2003, 46, 3673-3682.	4.8	89
35	A computational fluids dynamics study of buoyancy effects in reverse osmosis. <i>Journal of Membrane Science</i> , 2004, 245, 175-181.	8.2	89
36	Hydrodynamics of liquid-liquid Taylor flow in microchannels. <i>Chemical Engineering Science</i> , 2013, 92, 180-189.	3.8	86

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37	Fouling Control in a Submerged Flat Sheet Membrane System: Part II—Two-Phase Flow Characterization and CFD Simulations. <i>Separation Science and Technology</i> , 2006, 41, 1411-1445.	2.5	82
38	Unsteady Flows with Mass Transfer in Narrow Zigzag Spacer-Filled Channels: A Numerical Study. <i>Industrial & Engineering Chemistry Research</i> , 2006, 45, 6594-6603.	3.7	81
39	Numerical simulation of downburst winds. <i>Journal of Wind Engineering and Industrial Aerodynamics</i> , 2009, 97, 523-539.	3.9	79
40	An Integral Model for the Transient Pyrolysis of Solid Materials. <i>Fire and Materials</i> , 1997, 21, 7-16.	2.0	76
41	Mixing in bubble column reactors: Experimental study and CFD modeling. <i>Chemical Engineering Journal</i> , 2015, 264, 291-301.	12.7	76
42	Computational fluid dynamics modelling of flow and permeation for pressure-driven membrane processes. <i>Desalination</i> , 2002, 145, 183-186.	8.2	73
43	Steam explosion triggering: a review of theoretical and experimental investigations. <i>Nuclear Engineering and Design</i> , 1995, 155, 27-36.	1.7	72
44	Impact of tortuous geometry on laminar flow heat transfer in microchannels. <i>International Journal of Heat and Mass Transfer</i> , 2015, 83, 382-398.	4.8	72
45	Simulation of Turbulent Swirl Flow in an Axisymmetric Sudden Expansion. <i>AIAA Journal</i> , 2001, 39, 96-102.	2.6	70
46	A hydrodynamic and thermodynamic simulation of droplet impacts on hot surfaces, Part I: theoretical model. <i>International Journal of Heat and Mass Transfer</i> , 2001, 44, 2633-2642.	4.8	70
47	Lagrangian and Eulerian models for simulating turbulent dispersion and coalescence of droplets within a spray. <i>Applied Mathematical Modelling</i> , 2006, 30, 1196-1211.	4.2	70
48	The use of computational approaches in inhaler development. <i>Advanced Drug Delivery Reviews</i> , 2012, 64, 312-322.	13.7	69
49	A new correlation for bench-scale piloted ignition data of wood. <i>Fire Safety Journal</i> , 1997, 29, 41-59.	3.1	67
50	Numerical simulations of smoke movement from a pool fire in a ventilated tunnel. <i>Fire Safety Journal</i> , 1994, 23, 305-325.	3.1	66
51	Fluid Dynamics of the Cerebral Aqueduct. <i>Pediatric Neurosurgery</i> , 1996, 24, 229-236.	0.7	66
52	Simulation of Unsteady Flow and Vortex Shedding for Narrow Spacer-Filled Channels. <i>Industrial & Engineering Chemistry Research</i> , 2003, 42, 4962-4977.	3.7	66
53	A review of pressure-induced propagation models of the vapour explosion process. <i>Progress in Nuclear Energy</i> , 1990, 23, 137-179.	2.9	63
54	A hydrodynamic and thermodynamic simulation of droplet impacts on hot surfaces, Part II: validation and applications. <i>International Journal of Heat and Mass Transfer</i> , 2001, 44, 2643-2659.	4.8	61

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55	Laminar Flow and Heat Transfer in a Periodic Serpentine Channel. <i>Chemical Engineering and Technology</i> , 2005, 28, 353-361.	1.5	61
56	Low-Reynolds number heat transfer enhancement in sinusoidal channels. <i>Chemical Engineering Science</i> , 2007, 62, 694-702.	3.8	61
57	Heat transfer in well-characterised Taylor flow. <i>Chemical Engineering Science</i> , 2010, 65, 6379-6388.	3.8	55
58	Utilizing cavity flow within double skin façade for wind energy harvesting in buildings. <i>Journal of Wind Engineering and Industrial Aerodynamics</i> , 2017, 167, 114-127.	3.9	55
59	An improved mathematical model of melt/water detonations. Model formulation and example results. <i>International Journal of Heat and Mass Transfer</i> , 1991, 34, 2435-2448.	4.8	54
60	Simulation of the agglomeration in a spray using Lagrangian particle tracking. <i>Applied Mathematical Modelling</i> , 2004, 28, 273-290.	4.2	54
61	Tough and Processable Hydrogels Based on Lignin and Hydrophilic Polyurethane. <i>ACS Applied Bio Materials</i> , 2018, 1, 2073-2081.	4.6	52
62	Prospects for the Modelling and Design of Spray Dryers in the 21st Century. <i>Drying Technology</i> , 2003, 21, 197-215.	3.1	51
63	Computational Fluid Dynamics Simulations of Taylor Bubbles in Tubular Membranes. <i>Chemical Engineering Research and Design</i> , 2005, 83, 40-49.	5.6	51
64	Laminar flow and heat transfer in a periodic trapezoidal channel with semi-circular cross-section. <i>International Journal of Heat and Mass Transfer</i> , 2007, 50, 3471-3480.	4.8	51
65	Thermohydraulic performance of a periodic trapezoidal channel with a triangular cross-section. <i>International Journal of Heat and Mass Transfer</i> , 2008, 51, 2925-2929.	4.8	51
66	Simulation of the Effects of Inlet Swirl on Gas Flow Patterns in a Pilot-Scale Spray Dryer. <i>Chemical Engineering Research and Design</i> , 2004, 82, 821-833.	5.6	50
67	Particle Aerosolisation and Break-up in Dry Powder Inhalers 1: Evaluation and Modelling of Venturi Effects for Agglomerated Systems. <i>Pharmaceutical Research</i> , 2010, 27, 1367-1376.	3.5	50
68	Taylor flow heat transfer in microchannels. Unification of liquid-liquid and gas-liquid results. <i>Chemical Engineering Science</i> , 2015, 138, 140-152.	3.8	50
69	Computational fluid dynamics modelling of wood combustion. <i>Fire Safety Journal</i> , 1996, 27, 69-84.	3.1	49
70	Single and multiphase CFD approaches for modelling partially baffled stirred vessels: Comparison of experimental data with numerical predictions. <i>Chemical Engineering Science</i> , 2007, 62, 6246-6262.	3.8	49
71	Computational fluid dynamics modelling of cerebrospinal fluid pressure in Chiari malformation and syringomyelia. <i>Journal of Biomechanics</i> , 2013, 46, 1801-1809.	2.1	49
72	Numerical Simulation of Unsteady Turbulent Flow in Axisymmetric Sudden Expansions. <i>Journal of Fluids Engineering, Transactions of the ASME</i> , 2001, 123, 574-587.	1.5	48

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73	An experimental and computational study of the vortex shape in a partially baffled agitated vessel. <i>Chemical Engineering Science</i> , 2007, 62, 1915-1926.	3.8	48
74	Development of a CFD Model of Bubble Column Bioreactors: Part Two – Comparison of Experimental Data and CFD Predictions. <i>Chemical Engineering and Technology</i> , 2014, 37, 131-140.	1.5	48
75	CFD simulation of industrial bubble columns: Numerical challenges and model validation successes. <i>Applied Mathematical Modelling</i> , 2017, 44, 25-42.	4.2	48
76	Challenges of Simulating Droplet Coalescence within a Spray. <i>Drying Technology</i> , 2004, 22, 1463-1488.	3.1	47
77	The presence of arachnoiditis affects the characteristics of CSF flow in the spinal subarachnoid space: A modelling study. <i>Journal of Biomechanics</i> , 2012, 45, 1186-1191.	2.1	47
78	Understanding gradients in industrial bioreactors. <i>Biotechnology Advances</i> , 2021, 46, 107660.	11.7	47
79	An experimental study of gas-liquid flow in a narrow conduit. <i>International Journal of Heat and Mass Transfer</i> , 2000, 43, 2313-2324.	4.8	46
80	Focal spinal arachnoiditis increases subarachnoid space pressure: A computational study. <i>Clinical Biomechanics</i> , 2006, 21, 579-584.	1.2	46
81	Laminar heat transfer simulations for periodic zigzag semicircular channels: Chaotic advection and geometric effects. <i>International Journal of Heat and Mass Transfer</i> , 2013, 62, 391-401.	4.8	46
82	Validation of a Computationally Efficient Computational Fluid Dynamics (CFD) Model for Industrial Bubble Column Bioreactors. <i>Industrial & Engineering Chemistry Research</i> , 2014, 53, 14526-14543.	3.7	46
83	The health digital twin: advancing precision cardiovascular medicine. <i>Nature Reviews Cardiology</i> , 2021, 18, 803-804.	13.7	45
84	Computer modelling of the cerebrospinal fluid flow dynamics of aqueduct stenosis. <i>Medical and Biological Engineering and Computing</i> , 1999, 37, 59-63.	2.8	44
85	Film and slug behaviour in intermittent slug-annular microchannel flows. <i>Chemical Engineering Science</i> , 2010, 65, 5344-5355.	3.8	44
86	Effect of Flow Characteristics on Taylor Flow Heat Transfer. <i>Industrial & Engineering Chemistry Research</i> , 2012, 51, 2010-2020.	3.7	44
87	A Computational Fluid Dynamics Study of a Tall-Form Spray Dryer. <i>Food and Bioprocess Technology</i> , 2002, 80, 163-175.	3.6	43
88	Chaotic advection in steady laminar heat transfer simulations: Periodic zigzag channels with square cross-sections. <i>International Journal of Heat and Mass Transfer</i> , 2013, 57, 274-284.	4.8	43
89	Transient laminar heat transfer simulations in periodic zigzag channels. <i>International Journal of Heat and Mass Transfer</i> , 2014, 71, 758-768.	4.8	43
90	CFD modelling of reverse osmosis membrane flow and validation with experimental results. <i>Desalination</i> , 2007, 217, 242-250.	8.2	42

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91	CFD simulation of precession in sudden pipe expansion flows with low inlet swirl. Applied Mathematical Modelling, 2002, 26, 1-15.	4.2	41
92	Heat transfer and pressure drop characteristics of gas-liquid Taylor flow in mini ducts of square and rectangular cross-sections. International Journal of Heat and Mass Transfer, 2016, 103, 45-56.	4.8	41
93	Experimental investigation into the impact of sparger design on bubble columns at high superficial velocities. Chemical Engineering Research and Design, 2016, 106, 205-213.	5.6	41
94	Implementation of a height function method to alleviate spurious currents in CFD modelling of annular flow in microchannels. Applied Mathematical Modelling, 2015, 39, 4665-4686.	4.2	40
95	Development of a CFD Model of Bubble Column Bioreactors: Part One – A Detailed Experimental Study. Chemical Engineering and Technology, 2013, 36, 2065-2070.	1.5	39
96	Heat and mass transfer computations for laminar flow in an axisymmetric sudden expansion. Computers and Fluids, 1985, 13, 207-221.	2.5	38
97	Thermohydraulics of square-section microchannels following a serpentine path. Microfluidics and Nanofluidics, 2006, 2, 195-204.	2.2	38
98	Computational Fluid Dynamic Analysis of Intracranial Aneurysmal Bleb Formation. Neurosurgery, 2013, 73, 1061-1069.	1.1	38
99	Hydrodynamic control of the interface between two liquids flowing through a horizontal or vertical microchannel. Lab on A Chip, 2004, 4, 121.	6.0	37
100	Numerical simulation of solid suspension via mechanical agitation: effect of the modelling approach, turbulence model and hindered settling drag law. International Journal of Computational Fluid Dynamics, 2009, 23, 173-187.	1.2	37
101	Numerical simulation of idealised three-dimensional downburst wind fields. Engineering Structures, 2010, 32, 3558-3570.	5.3	37
102	Characterizing bubble column bioreactor performance using computational fluid dynamics. Chemical Engineering Science, 2016, 144, 58-74.	3.8	36
103	A Review of Computational Modelling of Flow Boiling in Microchannels. Journal of Computational Multiphase Flows, 2014, 6, 79-110.	0.8	35
104	Tough hydrogels for soft artificial muscles. Materials and Design, 2021, 203, 109609.	7.0	35
105	Cobra probe measurements of mean velocities, Reynolds stresses and higher-order velocity correlations in pipe flow. Experimental Thermal and Fluid Science, 2000, 21, 206-217.	2.7	34
106	Numerical Simulations of Gas Flow Patterns Within a Tall-Form Spray Dryer. Chemical Engineering Research and Design, 2001, 79, 235-248.	5.6	34
107	The influence of inclined plates on expansion behaviour of solid suspensions in a liquid fluidised bed – a computational fluid dynamics study. Powder Technology, 2005, 156, 1-7.	4.2	33
108	Alternate Operating Methods for Improving the Performance of Continuous Stirred Tank Reactors. Chemical Engineering Research and Design, 2006, 84, 569-582.	5.6	33

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109	Particle size classification in a fluidized bed containing parallel inclined plates. <i>Minerals Engineering</i> , 2006, 19, 162-171.	4.3	32
110	Oxygen transfer in bubble columns at industrially relevant superficial velocities: Experimental work and CFD modelling. <i>Chemical Engineering Journal</i> , 2015, 280, 138-146.	12.7	32
111	An assessment of turbulence models applied to the simulation of a two-dimensional submerged jet. <i>Applied Mathematical Modelling</i> , 2001, 25, 635-653.	4.2	31
112	Experimental study of transient behaviour of laminar flow in zigzag semi-circular microchannels. <i>Experimental Thermal and Fluid Science</i> , 2015, 68, 644-651.	2.7	31
113	Experimental investigation into the drag volume fraction correction term for gas-liquid bubbly flows. <i>Chemical Engineering Science</i> , 2017, 170, 91-97.	3.8	31
114	Simulation of Gas Flow Instability in a Spray Dryer. <i>Chemical Engineering Research and Design</i> , 2003, 81, 631-638.	5.6	30
115	Influence of inclined plates on the expansion behaviour of particulate suspensions in a liquid fluidised bed. <i>Chemical Engineering Science</i> , 2004, 59, 3559-3567.	3.8	30
116	Solid fire extinguishment by a water spray. <i>Fire Safety Journal</i> , 1999, 32, 119-135.	3.1	29
117	Numerical investigation of the influence of topography on simulated downburst wind fields. <i>Journal of Wind Engineering and Industrial Aerodynamics</i> , 2010, 98, 21-33.	3.9	29
118	On the importance of upstream compressibility in microchannel boiling heat transfer. <i>International Journal of Heat and Mass Transfer</i> , 2013, 58, 503-512.	4.8	29
119	Wind Engineering Analysis of Parabolic Trough Collectors to Optimise Wind Loads and Heat Loss. <i>Energy Procedia</i> , 2015, 69, 168-177.	1.8	29
120	Hydrodynamics and mixing in continuous oscillatory flow reactors—Part I: Effect of baffle geometry. <i>Chemical Engineering and Processing: Process Intensification</i> , 2016, 108, 78-92.	3.6	29
121	Turbulent Shear Stress Effects on Plant Cell Suspension Cultures. <i>Chemical Engineering Research and Design</i> , 2001, 79, 867-875.	5.6	28
122	Numerical simulation of colloidal dispersion filtration: description of critical flux and comparison with experimental results. <i>Desalination</i> , 2006, 192, 74-81.	8.2	28
123	Gravitational effect on Taylor flow in horizontal microchannels. <i>Chemical Engineering Science</i> , 2012, 69, 553-564.	3.8	28
124	Potential application of double skin façade incorporating aerodynamic modifications for wind energy harvesting. <i>Journal of Wind Engineering and Industrial Aerodynamics</i> , 2018, 174, 269-280.	3.9	28
125	N95 respirator mask breathing leads to excessive carbon dioxide inhalation and reduced heat transfer in a human nasal cavity. <i>Physics of Fluids</i> , 2021, 33, 081913.	4.0	28
126	Development of dynamic compartment models for industrial aerobic fed-batch fermentation processes. <i>Chemical Engineering Journal</i> , 2021, 420, 130402.	12.7	28

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127	Measurements of no in turbulent non-premixed flames stabilized on a bluff body. Proceedings of the Combustion Institute, 1996, 26, 2191-2197.	0.3	27
128	Mass Transfer Analysis of Spinning Cone Columns Using CFD. Chemical Engineering Research and Design, 2004, 82, 752-761.	5.6	27
129	Scale-adaptive simulation (SAS) modelling of a pilot-scale spray dryer. Chemical Engineering Research and Design, 2009, 87, 1371-1378.	5.6	27
130	Impact of Surfactant Chemistry on Bubble Column Systems. Chemical Engineering and Technology, 2014, 37, 652-658.	1.5	27
131	Assessment of the impact of bubble size modelling in CFD simulations of alternative bubble column configurations operating in the heterogeneous regime. Chemical Engineering Science, 2018, 186, 88-101.	3.8	27
132	USE OF COMPUTATIONAL FLUID DYNAMICS TECHNIQUES TO ASSESS DESIGN ALTERNATIVES FOR THE PLENUM CHAMBER OF A SMALL SPRAY DRYER. Drying Technology, 2001, 19, 257-268.	3.1	26
133	Wind engineering analysis of parabolic trough solar collectors: The effects of varying the trough depth. Journal of Wind Engineering and Industrial Aerodynamics, 2014, 135, 118-128.	3.9	26
134	Simple and cost-effective powder disperser for aerosol particle size measurement. Powder Technology, 2008, 187, 27-36.	4.2	25
135	Numerical simulation of colloid dead-end filtration: Effect of membrane characteristics and operating conditions on matter accumulation. Journal of Membrane Science, 2008, 313, 52-59.	8.2	25
136	Particle Aerosolisation and Breakup in Dry Powder Inhalers: Evaluation and Modelling of the Influence of Grid Structures for Agglomerated Systems. Journal of Pharmaceutical Sciences, 2011, 100, 4710-4721.	3.3	25
137	Effects of fluid structure interaction in a three dimensional model of the spinal subarachnoid space. Journal of Biomechanics, 2014, 47, 2826-2830.	2.1	25
138	Towards a CFD model of bubble columns containing significant surfactant levels. Chemical Engineering Science, 2015, 127, 189-201.	3.8	25
139	A CFD study on the effect of membrane permeance on permeate flux enhancement generated by unsteady slip velocity. Journal of Membrane Science, 2018, 556, 138-145.	8.2	25
140	Pressure distribution and flow dynamics in a nasal airway using a scale resolving simulation. Physics of Fluids, 2021, 33, .	4.0	25
141	The particle size distribution of solidified melt debris from molten fuel-coolant interaction experiments. Nuclear Engineering and Design, 1988, 105, 313-319.	1.7	24
142	A mathematical model of melt/water detonations. Applied Mathematical Modelling, 1989, 13, 339-347.	4.2	24
143	Computational fluid dynamics modelling of an entrained flow biomass gasifier. Applied Mathematical Modelling, 1998, 22, 747-757.	4.2	24
144	Simulation of the ignition of lean methane mixtures using CFD modelling and a reduced chemistry mechanism. Applied Mathematical Modelling, 2000, 24, 689-696.	4.2	24

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145	Experimental Measurement and Numerical Simulation of the Effect of Swirl on Flow Stability in Spray Dryers. <i>Chemical Engineering Research and Design</i> , 2001, 79, 260-268.	5.6	24
146	A Simple Kinetic Theory Treatment of Volatile Liquid-Gas Interfaces. <i>Journal of Heat Transfer</i> , 2001, 123, 486-491.	2.1	24
147	Towards Autonomous MAV Soaring in Cities: CFD Simulation, EFD Measurement and Flight Trials. <i>International Journal of Micro Air Vehicles</i> , 2015, 7, 441-448.	1.3	24
148	Impact of Surfactant Addition on Oxygen Mass Transfer in a Bubble Column. <i>Chemical Engineering and Technology</i> , 2015, 38, 44-52.	1.5	24
149	Scale-resolving simulation to predict the updraught regions over buildings for MAV orographic lift soaring. <i>Journal of Wind Engineering and Industrial Aerodynamics</i> , 2015, 140, 34-48.	3.9	24
150	Hydrodynamics and mixing in continuous oscillatory flow reactors—Part II: Characterisation methods. <i>Chemical Engineering and Processing: Process Intensification</i> , 2016, 102, 102-116.	3.6	24
151	CFD study of the effect of unsteady slip velocity waveform on shear stress in membrane systems. <i>Chemical Engineering Science</i> , 2018, 192, 16-24.	3.8	24
152	The CHYMES coarse mixing model. <i>Progress in Nuclear Energy</i> , 1991, 26, 31-61.	2.9	23
153	Numerical simulation of annular flow hydrodynamics in microchannels. <i>Computers and Fluids</i> , 2016, 133, 90-102.	2.5	23
154	Computational fluid dynamics modelling of hydrodynamics, mixing and oxygen transfer in industrial bioreactors with Newtonian broths. <i>Biochemical Engineering Journal</i> , 2022, 177, 108265.	3.6	23
155	Heat Transfer and Fluid Dynamic Aspects of Explosive Melt-Water Interactions. <i>Advances in Heat Transfer</i> , 1997, , 129-213.	0.9	22
156	Laminar Flow Transitions in a 2D Channel with Circular Spacers. <i>Industrial & Engineering Chemistry Research</i> , 2007, 46, 5387-5396.	3.7	21
157	Particle Aerosolisation and Break-Up in Dry Powder Inhalers: Evaluation and Modelling of Impaction Effects for Agglomerated Systems. <i>Journal of Pharmaceutical Sciences</i> , 2011, 100, 2744-2754.	3.3	21
158	CFD Prediction of Odour Dispersion and Plume Visibility for Alumina Refinery Calciner Stacks. <i>Chemical Engineering Research and Design</i> , 2005, 83, 231-241.	5.6	20
159	Impact of thixotropy on flow patterns induced in a stirred tank: Numerical and experimental studies. <i>Chemical Engineering Research and Design</i> , 2008, 86, 545-553.	5.6	20
160	CFD simulation of Taylor flow: Should the liquid film be captured or not?. <i>Chemical Engineering Science</i> , 2017, 167, 334-335.	3.8	20
161	Process Intensification in Spray Dryers by Turbulence Enhancement. <i>Chemical Engineering Research and Design</i> , 1999, 77, 189-205.	5.6	19
162	Chiari malformation may increase perivascular cerebrospinal fluid flow into the spinal cord: A subject-specific computational modelling study. <i>Journal of Biomechanics</i> , 2017, 65, 185-193.	2.1	19

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163	CFD study of the effect of perforated spacer on pressure loss and mass transfer in spacer-filled membrane channels. <i>Chemical Engineering Science</i> , 2020, 222, 115704.	3.8	19
164	Tough hydrophilic polyurethane-based hydrogels with mechanical properties similar to human soft tissues. <i>Journal of Materials Chemistry B</i> , 2019, 7, 3512-3519.	5.8	18
165	In-vitro and particle image velocimetry studies of dry powder inhalers. <i>International Journal of Pharmaceutics</i> , 2021, 592, 119966.	5.2	18
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