

# David F Fletcher

## List of Publications by Year in Descending Order

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The third column is the impact factor (IF) of the journal, and the fourth column is the number of citations of the article.

283  
papers

8,596  
citations

50  
h-index

77  
g-index

297  
ext. papers

9,818  
ext. citations

4.3  
avg, IF

6.29  
L-index

#	Paper	IF	Citations
283	Combining experimental and computational techniques to understand and improve dry powder inhalers.. <i>Expert Opinion on Drug Delivery</i> , <b>2022</b> ,	8	1
282	Wet surface wall model for latent heat exchange during evaporation.. <i>International Journal for Numerical Methods in Biomedical Engineering</i> , <b>2022</b> , e3581	2.6	
281	Impact of impeller modelling approaches on SBES simulations of flow and residence time in a draft tube reactor. <i>Chemical Engineering Research and Design</i> , <b>2022</b> , 178, 157-163	5.5	
280	Effect of breathing profiles on nebuliser drug delivery targeting the paranasal sinuses in a post-operative nasal cavity. <i>Journal of Aerosol Science</i> , <b>2022</b> , 161, 105913	4.3	1
279	Experimental and numerical investigation of dry pressure drop of 3D-printed structured packings for gas/liquid contactors. <i>Chemical Engineering and Processing: Process Intensification</i> , <b>2022</b> , 108912	3.7	0
278	Computational assessment of the nasal air conditioning and paranasal sinus ventilation from nasal assisted breathing therapy. <i>Physics of Fluids</i> , <b>2022</b> , 34, 051912	4.4	0
277	Computational Fluid Dynamics modelling of hydrodynamics, mixing and oxygen transfer in industrial bioreactors with Newtonian broths. <i>Biochemical Engineering Journal</i> , <b>2021</b> , 177, 108265	4.2	2
276	Design, performance characterization and applications of continuous oscillatory baffled reactors. <i>Chemical Engineering and Processing: Process Intensification</i> , <b>2021</b> , 108718	3.7	1
275	The health digital twin: advancing precision cardiovascular medicine. <i>Nature Reviews Cardiology</i> , <b>2021</b> , 18, 803-804	14.8	8
274	Tough hydrogels for soft artificial muscles. <i>Materials and Design</i> , <b>2021</b> , 203, 109609	8.1	7
273	Effects of head tilt on squeeze-bottle nasal irrigation - A computational fluid dynamics study. <i>Journal of Biomechanics</i> , <b>2021</b> , 123, 110490	2.9	5
272	Understanding gradients in industrial bioreactors. <i>Biotechnology Advances</i> , <b>2021</b> , 46, 107660	17.8	10
271	In-vitro and particle image velocimetry studies of dry powder inhalers. <i>International Journal of Pharmaceutics</i> , <b>2021</b> , 592, 119966	6.5	7
270	CFD Investigation of Flame and Pressure Wave Propagation through Variable Concentration Methane-Air Mixtures in a Tube Closed at One End. <i>Combustion Science and Technology</i> , <b>2021</b> , 193, 1203-1230	15.5	7
269	Pressure distribution and flow dynamics in a nasal airway using a scale resolving simulation. <i>Physics of Fluids</i> , <b>2021</b> , 33, 011907	4.4	9
268	On the Use of Computational Fluid Dynamics (CFD) Modelling to Design Improved Dry Powder Inhalers. <i>Pharmaceutical Research</i> , <b>2021</b> , 38, 277-288	4.5	2
267	Phase offset between arterial pulsations and subarachnoid space pressure fluctuations are unlikely to drive periarterial cerebrospinal fluid flow. <i>Biomechanics and Modeling in Mechanobiology</i> , <b>2021</b> , 20, 1751-1766	3.8	2

266	Validation studies to assist in the development of scale and system independent CFD models for industrial bubble columns. <i>Chemical Engineering Research and Design</i> , <b>2021</b> , 171, 1-12	5.5	2
265	Application of hybrid RANS-LES models to the prediction of mixing time and residence time distribution: Case study of a draft tube reactor. <i>Chemical Engineering Science</i> , <b>2021</b> , 240, 116676	4.4	1
264	N95 respirator mask breathing leads to excessive carbon dioxide inhalation and reduced heat transfer in a human nasal cavity. <i>Physics of Fluids</i> , <b>2021</b> , 33, 081913	4.4	9
263	Development of dynamic compartment models for industrial aerobic fed-batch fermentation processes. <i>Chemical Engineering Journal</i> , <b>2021</b> , 420, 130402	14.7	3
262	Mixing performance in continuous oscillatory baffled reactors. <i>Chemical Engineering Science</i> , <b>2020</b> , 219, 115600	4.4	6
261	Effect of Tube Size on Flame and Pressure Wave Propagation in a Tube Closed at One End: A Numerical Study. <i>Combustion Science and Technology</i> , <b>2020</b> , 192, 1731-1753	1.5	9
260	Application of hybrid RANS-LES models to the prediction of flow behaviour in an industrial crystalliser. <i>Applied Mathematical Modelling</i> , <b>2020</b> , 77, 1797-1819	4.5	10
259	Predicting power consumption in continuous oscillatory baffled reactors. <i>Chemical Engineering Science</i> , <b>2020</b> , 212, 115310	4.4	7
258	CFD study of the effect of perforated spacer on pressure loss and mass transfer in spacer-filled membrane channels. <i>Chemical Engineering Science</i> , <b>2020</b> , 222, 115704	4.4	9
257	Polypeptide-affined interpenetrating hydrogels with tunable physical and mechanical properties. <i>Biomaterials Science</i> , <b>2019</b> , 7, 926-937	7.4	9
256	The effects of variation in the arterial pulse waveform on perivascular flow. <i>Journal of Biomechanics</i> , <b>2019</b> , 90, 65-70	2.9	3
255	Tough hydrophilic polyurethane-based hydrogels with mechanical properties similar to human soft tissues. <i>Journal of Materials Chemistry B</i> , <b>2019</b> , 7, 3512-3519	7.3	13
254	Current Challenges and Emergent Technologies for Manufacturing Artificial Right Ventricle to Pulmonary Artery (RV-PA) Cardiac Conduits. <i>Cardiovascular Engineering and Technology</i> , <b>2019</b> , 10, 205-215	2.2	7
253	Numerical study of heat transfer in square millimetric zigzag channels in the laminar flow regime. <i>Chemical Engineering and Processing: Process Intensification</i> , <b>2019</b> , 144, 107624	3.7	10
252	An automated segmentation framework for nasal computational fluid dynamics analysis in computed tomography. <i>Computers in Biology and Medicine</i> , <b>2019</b> , 115, 103505	7	5
251	Potential application of double skin façade incorporating aerodynamic modifications for wind energy harvesting. <i>Journal of Wind Engineering and Industrial Aerodynamics</i> , <b>2018</b> , 174, 269-280	3.7	19
250	Assessment of the impact of bubble size modelling in CFD simulations of alternative bubble column configurations operating in the heterogeneous regime. <i>Chemical Engineering Science</i> , <b>2018</b> , 186, 88-101	4.4	17
249	A CFD study on the effect of membrane permeance on permeate flux enhancement generated by unsteady slip velocity. <i>Journal of Membrane Science</i> , <b>2018</b> , 556, 138-145	9.6	20

248	Oxygen transfer in pilot-scale contactors: An experimental and computational investigation into the effect of contactor design. <i>Chemical Engineering Journal</i> , <b>2018</b> , 344, 173-183	14.7	7
247	Investigation of the flow patterns produced from sudden expansion geometries using pressure difference measurements and flow visualisation techniques. <i>Chemical Engineering Research and Design</i> , <b>2018</b> , 138, 280-291	5.5	
246	CFD study of the effect of unsteady slip velocity waveform on shear stress in membrane systems. <i>Chemical Engineering Science</i> , <b>2018</b> , 192, 16-24	4.4	15
245	Hydrodynamics in a stirred tank in the transitional flow regime. <i>Chemical Engineering Research and Design</i> , <b>2018</b> , 132, 865-880	5.5	3
244	Tough and Processable Hydrogels Based on Lignin and Hydrophilic Polyurethane.. <i>ACS Applied Bio Materials</i> , <b>2018</b> , 1, 2073-2081	4.1	33
243	Investigation of turbulence model selection on the predicted flow behaviour in an industrial crystalliser [RANS and URANS approaches. <i>Chemical Engineering Research and Design</i> , <b>2018</b> , 140, 205-220	5.5	6
242	High-Speed Laser Image Analysis of Plume Angles for Pressurised Metered Dose Inhalers: The Effect of Nozzle Geometry. <i>AAPS PharmSciTech</i> , <b>2017</b> , 18, 782-789	3.9	11
241	Predicting flow and residence time in alumina digestion vessels. <i>Chemical Engineering Science</i> , <b>2017</b> , 169, 212-224	4.4	3
240	Experimental investigation into the drag volume fraction correction term for gas-liquid bubbly flows. <i>Chemical Engineering Science</i> , <b>2017</b> , 170, 91-97	4.4	17
239	Utilizing cavity flow within double skin façade for wind energy harvesting in buildings. <i>Journal of Wind Engineering and Industrial Aerodynamics</i> , <b>2017</b> , 167, 114-127	3.7	36
238	Chiari malformation may increase perivascular cerebrospinal fluid flow into the spinal cord: A subject-specific computational modelling study. <i>Journal of Biomechanics</i> , <b>2017</b> , 65, 185-193	2.9	15
237	Hydrodynamics and mixing in airlift contactors: Experimental work and CFD modelling. <i>Chemical Engineering Research and Design</i> , <b>2017</b> , 127, 154-169	5.5	10
236	Towards the design of an intensified coagulator. <i>Chemical Engineering and Processing: Process Intensification</i> , <b>2017</b> , 121, 1-14	3.7	1
235	Simulation of microchannel flows using a 3D height function formulation for surface tension modelling. <i>International Communications in Heat and Mass Transfer</i> , <b>2017</b> , 89, 122-133	5.8	4
234	Development of a slurry abrasion model using an Eulerian-Eulerian Two-fluid Approach. <i>Applied Mathematical Modelling</i> , <b>2017</b> , 44, 107-123	4.5	4
233	CFD simulation of industrial bubble columns: Numerical challenges and model validation successes. <i>Applied Mathematical Modelling</i> , <b>2017</b> , 44, 25-42	4.5	37
232	Sustained high-pressure in the spinal subarachnoid space while arterial expansion is low may be linked to syrinx development. <i>Computer Methods in Biomechanics and Biomedical Engineering</i> , <b>2017</b> , 20, 457-467	2.1	3
231	CFD simulation of Taylor flow: Should the liquid film be captured or not?. <i>Chemical Engineering Science</i> , <b>2017</b> , 167, 334-335	4.4	17

230	Proper Orthogonal Decomposition (POD) analysis of CFD data for flow in an axisymmetric sudden expansion. <i>Chemical Engineering Research and Design</i> , <b>2017</b> , 123, 333-346	5.5	8
229	Numerical simulation of annular flow boiling in microchannels. <i>Journal of Computational Multiphase Flows</i> , <b>2016</b> , 8, 61-82		12
228	Characterizing bubble column bioreactor performance using computational fluid dynamics. <i>Chemical Engineering Science</i> , <b>2016</b> , 144, 58-74	4.4	27
227	Experimental investigation into the impact of sparger design on bubble columns at high superficial velocities. <i>Chemical Engineering Research and Design</i> , <b>2016</b> , 106, 205-213	5.5	34
226	Hydrodynamics and mixing in continuous oscillatory flow reactorsPart II: Characterisation methods. <i>Chemical Engineering and Processing: Process Intensification</i> , <b>2016</b> , 102, 102-116	3.7	17
225	Wind effects in solar fields with various collector designs <b>2016</b> ,		2
224	Numerical simulation of annular flow hydrodynamics in microchannels. <i>Computers and Fluids</i> , <b>2016</b> , 133, 90-102	2.8	14
223	Hydrodynamics and mixing in continuous oscillatory flow reactorsPart I: Effect of baffle geometry. <i>Chemical Engineering and Processing: Process Intensification</i> , <b>2016</b> , 108, 78-92	3.7	21
222	Heat transfer and pressure drop characteristics of gas-liquid Taylor flow in mini ducts of square and rectangular cross-sections. <i>International Journal of Heat and Mass Transfer</i> , <b>2016</b> , 103, 45-56	4.9	37
221	Scale-resolving simulation to predict the updraught regions over buildings for MAV orographic lift soaring. <i>Journal of Wind Engineering and Industrial Aerodynamics</i> , <b>2015</b> , 140, 34-48	3.7	18
220	Oxygen transfer in bubble columns at industrially relevant superficial velocities: Experimental work and CFD modelling. <i>Chemical Engineering Journal</i> , <b>2015</b> , 280, 138-146	14.7	26
219	Experimental study of transient behaviour of laminar flow in zigzag semi-circular microchannels. <i>Experimental Thermal and Fluid Science</i> , <b>2015</b> , 68, 644-651	3	22
218	Wind Engineering Analysis of Parabolic Trough Collectors to Optimise Wind Loads and Heat Loss. <i>Energy Procedia</i> , <b>2015</b> , 69, 168-177	2.3	21
217	The Effect of Active Pharmaceutical Ingredients on Aerosol Electrostatic Charges from Pressurized Metered Dose Inhalers. <i>Pharmaceutical Research</i> , <b>2015</b> , 32, 2928-36	4.5	4
216	Implementation of a height function method to alleviate spurious currents in CFD modelling of annular flow in microchannels. <i>Applied Mathematical Modelling</i> , <b>2015</b> , 39, 4665-4686	4.5	28
215	Thoracic aortic aneurysm: 4D flow MRI and computational fluid dynamics model. <i>Computer Methods in Biomechanics and Biomedical Engineering</i> , <b>2015</b> , 18 Suppl 1, 1894-5	2.1	15
214	Taylor flow heat transfer in microchannelsUnification of liquid-liquid and gas-liquid results. <i>Chemical Engineering Science</i> , <b>2015</b> , 138, 140-152	4.4	42
213	An Investigation into the Powder Release Behavior from Capsule-Based Dry Powder Inhalers. <i>Aerosol Science and Technology</i> , <b>2015</b> , 49, 902-911	3.4	5

212	Mixing in bubble column reactors: Experimental study and CFD modeling. <i>Chemical Engineering Journal</i> , <b>2015</b> , 264, 291-301	14.7	62
211	Heat exchanger specification: Coupling design and surface performance evaluation. <i>Chemical Engineering Research and Design</i> , <b>2015</b> , 93, 392-401	5.5	6
210	The effect of actuator nozzle designs on the electrostatic charge generated in pressurised metered dose inhaler aerosols. <i>Pharmaceutical Research</i> , <b>2015</b> , 32, 1237-48	4.5	3
209	Impact of Surfactant Addition on Oxygen Mass Transfer in a Bubble Column. <i>Chemical Engineering and Technology</i> , <b>2015</b> , 38, 571-573	2	6
208	Towards Autonomous MAV Soaring in Cities: CFD Simulation, EFD Measurement and Flight Trials. <i>International Journal of Micro Air Vehicles</i> , <b>2015</b> , 7, 441-448	0.8	15
207	Influence of Tortuous Geometry on the Hydrodynamic Characteristics of Laminar Flow in Microchannels. <i>Chemical Engineering and Technology</i> , <b>2015</b> , 38, 1406-1415	2	5
206	Impact of tortuous geometry on laminar flow heat transfer in microchannels. <i>International Journal of Heat and Mass Transfer</i> , <b>2015</b> , 83, 382-398	4.9	54
205	Impact of Surfactant Addition on Oxygen Mass Transfer in a Bubble Column. <i>Chemical Engineering and Technology</i> , <b>2015</b> , 38, 44-52	2	16
204	Towards a CFD model of bubble columns containing significant surfactant levels. <i>Chemical Engineering Science</i> , <b>2015</b> , 127, 189-201	4.4	20
203	Development of a CFD Model of Bubble Column Bioreactors: Part Two [Comparison of Experimental Data and CFD Predictions. <i>Chemical Engineering and Technology</i> , <b>2014</b> , 37, 131-140	2	42
202	Effects of fluid structure interaction in a three dimensional model of the spinal subarachnoid space. <i>Journal of Biomechanics</i> , <b>2014</b> , 47, 2826-30	2.9	20
201	Validation of a Computationally Efficient Computational Fluid Dynamics (CFD) Model for Industrial Bubble Column Bioreactors. <i>Industrial &amp; Engineering Chemistry Research</i> , <b>2014</b> , 53, 14526-14543	3.9	39
200	Dynamic flow modelling in precipitator vessels [A study of turbulence modelling approaches. <i>Applied Mathematical Modelling</i> , <b>2014</b> , 38, 4163-4174	4.5	9
199	Experimental Investigation of Taylor and Intermittent Slug-annular/Annular Flow in Microchannels. <i>Experimental Heat Transfer</i> , <b>2014</b> , 27, 360-375	2.4	5
198	Wind engineering analysis of parabolic trough solar collectors: The effects of varying the trough depth. <i>Journal of Wind Engineering and Industrial Aerodynamics</i> , <b>2014</b> , 135, 118-128	3.7	22
197	Impact of Surfactant Chemistry on Bubble Column Systems. <i>Chemical Engineering and Technology</i> , <b>2014</b> , 37, 652-658	2	24
196	A Review of Computational Modelling of Flow Boiling in Microchannels. <i>Journal of Computational Multiphase Flows</i> , <b>2014</b> , 6, 79-110		24
195	Transient laminar heat transfer simulations in periodic zigzag channels. <i>International Journal of Heat and Mass Transfer</i> , <b>2014</b> , 71, 758-768	4.9	32

194	The influence of actuator materials and nozzle designs on electrostatic charge of pressurised metered dose inhaler (pMDI) formulations. <i>Pharmaceutical Research</i> , <b>2014</b> , 31, 1325-37	4.5	7
193	Hydrodynamics of liquid-liquid Taylor flow in microchannels. <i>Chemical Engineering Science</i> , <b>2013</b> , 92, 180-189	4.4	67
192	Computational fluid dynamics modelling of cerebrospinal fluid pressure in Chiari malformation and syringomyelia. <i>Journal of Biomechanics</i> , <b>2013</b> , 46, 1801-9	2.9	38
191	On the importance of upstream compressibility in microchannel boiling heat transfer. <i>International Journal of Heat and Mass Transfer</i> , <b>2013</b> , 58, 503-512	4.9	21
190	Chaotic advection in steady laminar heat transfer simulations: Periodic zigzag channels with square cross-sections. <i>International Journal of Heat and Mass Transfer</i> , <b>2013</b> , 57, 274-284	4.9	33
189	Laminar heat transfer simulations for periodic zigzag semicircular channels: Chaotic advection and geometric effects. <i>International Journal of Heat and Mass Transfer</i> , <b>2013</b> , 62, 391-401	4.9	34
188	Three Dimensional Effects in Taylor Flow in Circular Microchannels. <i>Houille Blanche</i> , <b>2013</b> , 99, 60-67	0.3	5
187	Development of a CFD Model of Bubble Column Bioreactors: Part One [A Detailed Experimental Study. <i>Chemical Engineering and Technology</i> , <b>2013</b> , 36, 2065-2070	2	31
186	Modeling of Microfluidic Devices <b>2013</b> , 117-144		1
185	Computational fluid dynamic analysis of intracranial aneurysmal bleb formation. <i>Neurosurgery</i> , <b>2013</b> , 73, 1061-8; discussion 1068-9	3.2	29
184	The shear rheology of bread dough: Analysis of local flow behaviour using CFD. <i>Food and Bioproducts Processing</i> , <b>2012</b> , 90, 361-369	4.9	1
183	Formation of tip-vortices on triangular prismatic-shaped cliffs. Part 2: A computational fluid dynamics study. <i>Journal of Wind Engineering and Industrial Aerodynamics</i> , <b>2012</b> , 109, 21-30	3.7	6
182	The presence of arachnoiditis affects the characteristics of CSF flow in the spinal subarachnoid space: a modelling study. <i>Journal of Biomechanics</i> , <b>2012</b> , 45, 1186-91	2.9	39
181	Effect of Flow Characteristics on Taylor Flow Heat Transfer. <i>Industrial &amp; Engineering Chemistry Research</i> , <b>2012</b> , 51, 2010-2020	3.9	34
180	A numerical treatment of crystallization in tube flow. <i>Polymer Engineering and Science</i> , <b>2012</b> , 52, 1356-1366	3.9	5
179	The use of computational approaches in inhaler development. <i>Advanced Drug Delivery Reviews</i> , <b>2012</b> , 64, 312-22	18.5	54
178	Gravitational effect on Taylor flow in horizontal microchannels. <i>Chemical Engineering Science</i> , <b>2012</b> , 69, 553-564	4.4	27
177	Validation of a CFD model of Taylor flow hydrodynamics and heat transfer. <i>Chemical Engineering Science</i> , <b>2012</b> , 69, 541-552	4.4	50

176	CFD approaches for the simulation of hydrodynamics and heat transfer in Taylor flow. <i>Chemical Engineering Science</i> , <b>2011</b> , 66, 5575-5584	4.4	66
175	An assessment of different turbulence models for predicting flow in a baffled tank stirred with a Rushton turbine. <i>Chemical Engineering Science</i> , <b>2011</b> , 66, 5976-5988	4.4	75
174	Particle aerosolisation and break-up in dry powder inhalers: evaluation and modelling of impaction effects for agglomerated systems. <i>Journal of Pharmaceutical Sciences</i> , <b>2011</b> , 100, 2744-54	3.9	19
173	Particle aerosolisation and break-up in dry powder inhalers: evaluation and modelling of the influence of grid structures for agglomerated systems. <i>Journal of Pharmaceutical Sciences</i> , <b>2011</b> , 100, 4710-21	3.9	21
172	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> , <b>2010</b> , 112, 808-13	3.2	84
171	Taylor Flow in Microchannels: A Review of Experimental and Computational Work. <i>Journal of Computational Multiphase Flows</i> , <b>2010</b> , 2, 1-31		99
170	A computational fluid dynamics model for co-deposition of silica and germania in the MCVD process. <i>Journal of Non-Crystalline Solids</i> , <b>2010</b> , 356, 24-31	3.9	2
169	Computational Fluid Dynamics modelling of ultra-lean porous burners. <i>Progress in Computational Fluid Dynamics</i> , <b>2010</b> , 10, 352	0.7	4
168	CFD modelling of flow and heat transfer in the Taylor flow regime. <i>Chemical Engineering Science</i> , <b>2010</b> , 65, 2094-2107	4.4	97
167	Film and slug behaviour in intermittent slug-annular microchannel flows. <i>Chemical Engineering Science</i> , <b>2010</b> , 65, 5344-5355	4.4	39
166	Particle aerosolisation and break-up in dry powder inhalers 1: evaluation and modelling of venturi effects for agglomerated systems. <i>Pharmaceutical Research</i> , <b>2010</b> , 27, 1367-76	4.5	41
165	Numerical investigation of the influence of topography on simulated downburst wind fields. <i>Journal of Wind Engineering and Industrial Aerodynamics</i> , <b>2010</b> , 98, 21-33	3.7	22
164	Numerical simulation of idealised three-dimensional downburst wind fields. <i>Engineering Structures</i> , <b>2010</b> , 32, 3558-3570	4.7	28
163	Heat transfer in well-characterised Taylor flow. <i>Chemical Engineering Science</i> , <b>2010</b> , 65, 6379-6388	4.4	45
162	Numerical simulation of solid suspension via mechanical agitation: effect of the modelling approach, turbulence model and hindered settling drag law. <i>International Journal of Computational Fluid Dynamics</i> , <b>2009</b> , 23, 173-187	1.2	32
161	Numerical simulation of downburst winds. <i>Journal of Wind Engineering and Industrial Aerodynamics</i> , <b>2009</b> , 97, 523-539	3.7	66
160	On the CFD modelling of Taylor flow in microchannels. <i>Chemical Engineering Science</i> , <b>2009</b> , 64, 2941-2950	4.4	210
159	Scale-adaptive simulation (SAS) modelling of a pilot-scale spray dryer. <i>Chemical Engineering Research and Design</i> , <b>2009</b> , 87, 1371-1378	5.5	25



158	Design and evaluation of a porous burner for the mitigation of anthropogenic methane emissions. <i>Environmental Science &amp; Technology</i> , <b>2009</b> , 43, 9329-34	10.3	13
157	Simulation of particle transport and deposition in the modified chemical vapor deposition process. <i>Journal of Non-Crystalline Solids</i> , <b>2009</b> , 355, 327-334	3.9	8
156	Impact of chlorine dissociation for modified chemical vapor deposition. <i>Journal of Non-Crystalline Solids</i> , <b>2009</b> , 355, 817-820	3.9	1
155	A novel method to include the free surface in a CFD model of jet injection into partially-baffled mixing vessels. <i>Progress in Computational Fluid Dynamics</i> , <b>2009</b> , 9, 368	0.7	
154	Influence of tilt and surface roughness on the outflow wind field of an impinging jet. <i>Wind and Structures, an International Journal</i> , <b>2009</b> , 12, 179-204		2
153	ASSESSMENT OF THE SST AND OMEGA-BASED REYNOLDS STRESS MODELS FOR THE PREDICTION OF FLOW AND HEAT TRANSFER IN A SQUARE-SECTION U-BEND. <i>Computational Thermal Sciences</i> , <b>2009</b> , 1, 385-403	1.9	6
152	Using CFD to identify means of reducing power consumption for mixing and suspension in paper pulp stock chests. <i>Asia-Pacific Journal of Chemical Engineering</i> , <b>2008</b> , 3, 144-150	1.3	4
151	Jet injection studies for partially baffled mixing reactors: A general correlation for the jet trajectory and jet penetration depth. <i>Chemical Engineering Research and Design</i> , <b>2008</b> , 86, 1117-1127	5.5	4
150	Flow Patterns in Sudden Expansions and Their Relevance to Understanding the Behaviour of Spray Dryers. <i>Asia-Pacific Journal of Chemical Engineering</i> , <b>2008</b> , 10, 305-322		2
149	Simple and cost-effective powder disperser for aerosol particle size measurement. <i>Powder Technology</i> , <b>2008</b> , 187, 27-36	5.2	22
148	Assessment of an Eulerian CFD model for prediction of dilute droplet dispersion in a turbulent jet. <i>Applied Mathematical Modelling</i> , <b>2008</b> , 32, 2686-2705	4.5	12
147	An experimental and CFD study of liquid jet injection into a partially baffled mixing vessel: A contribution to process safety by improving the quenching of runaway reactions. <i>Chemical Engineering Science</i> , <b>2008</b> , 63, 924-942	4.4	15
146	Impact of thixotropy on flow patterns induced in a stirred tank: Numerical and experimental studies. <i>Chemical Engineering Research and Design</i> , <b>2008</b> , 86, 545-553	5.5	16
145	Thermohydraulic performance of a periodic trapezoidal channel with a triangular cross-section. <i>International Journal of Heat and Mass Transfer</i> , <b>2008</b> , 51, 2925-2929	4.9	36
144	Numerical simulation of colloid dead-end filtration: Effect of membrane characteristics and operating conditions on matter accumulation. <i>Journal of Membrane Science</i> , <b>2008</b> , 313, 52-59	9.6	22
143	Laminar Flow Transitions in a 2D Channel with Circular Spacers. <i>Industrial &amp; Engineering Chemistry Research</i> , <b>2007</b> , 46, 5387-5396	3.9	15
142	CFD modelling of reverse osmosis membrane flow and validation with experimental results. <i>Desalination</i> , <b>2007</b> , 217, 242-250	10.3	35
141	Low-Reynolds number heat transfer enhancement in sinusoidal channels. <i>Chemical Engineering Science</i> , <b>2007</b> , 62, 694-702	4.4	52

140	An experimental and computational study of the vortex shape in a partially baffled agitated vessel. <i>Chemical Engineering Science</i> , <b>2007</b> , 62, 1915-1926	4.4	38
139	Single and multiphase CFD approaches for modelling partially baffled stirred vessels: Comparison of experimental data with numerical predictions. <i>Chemical Engineering Science</i> , <b>2007</b> , 62, 6246-6262	4.4	43
138	A general implementation of the H1 boundary condition in CFD simulations of heat transfer in swept passages. <i>International Journal of Heat and Mass Transfer</i> , <b>2007</b> , 50, 1833-1842	4.9	7
137	Laminar flow and heat transfer in a periodic trapezoidal channel with semi-circular cross-section. <i>International Journal of Heat and Mass Transfer</i> , <b>2007</b> , 50, 3471-3480	4.9	42
136	Transient Hydrodynamics and Free Surface Capture of an Under-Baffled Stirred Tank During Stopping. <i>Chemical Engineering Research and Design</i> , <b>2007</b> , 85, 626-636	5.5	10
135	Influence of mouthpiece geometry on the aerosol delivery performance of a dry powder inhaler. <i>Pharmaceutical Research</i> , <b>2007</b> , 24, 1450-6	4.5	81
134	Simulation of particle-vortex interactions in the modified chemical vapor deposition process. <i>Journal of Non-Crystalline Solids</i> , <b>2007</b> , 353, 4066-4075	3.9	7
133	Impinging jet simulation of stationary downburst flow over topography. <i>Wind and Structures, an International Journal</i> , <b>2007</b> , 10, 437-462		13
132	Particle size classification in a fluidized bed containing parallel inclined plates. <i>Minerals Engineering</i> , <b>2006</b> , 19, 162-171	4.9	27
131	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> , <b>2006</b> , 95, 1382-92	3.9	93
130	A framework for modeling particle size effects in emulsion polymerization systems using computational fluid dynamics linked to a detailed population balance model. <i>Computer Aided Chemical Engineering</i> , <b>2006</b> , 21, 551-556	0.6	6
129	Validation of the Lagrangian Approach for Predicting Turbulent Dispersion and Evaporation of Droplets within a Spray. <i>Drying Technology</i> , <b>2006</b> , 24, 1373-1379	2.6	9
128	Fouling Control in a Submerged Flat Sheet Membrane System: Part II Two-Phase Flow Characterization and CFD Simulations. <i>Separation Science and Technology</i> , <b>2006</b> , 41, 1411-1445	2.5	72
127	Unsteady Flows with Mass Transfer in Narrow Zigzag Spacer-Filled Channels: A Numerical Study. <i>Industrial &amp; Engineering Chemistry Research</i> , <b>2006</b> , 45, 6594-6603	3.9	61
126	Focal spinal arachnoiditis increases subarachnoid space pressure: a computational study. <i>Clinical Biomechanics</i> , <b>2006</b> , 21, 579-84	2.2	43
125	Numerical simulation of colloidal dispersion filtration: description of critical flux and comparison with experimental results. <i>Desalination</i> , <b>2006</b> , 192, 74-81	10.3	23
124	Dynamic response of a high-pressure reverse osmosis membrane simulation to time dependent disturbances. <i>Desalination</i> , <b>2006</b> , 191, 397-403	10.3	7
123	Lagrangian and Eulerian models for simulating turbulent dispersion and coalescence of droplets within a spray. <i>Applied Mathematical Modelling</i> , <b>2006</b> , 30, 1196-1211	4.5	58

122	What is important in the simulation of spray dryer performance and how do current CFD models perform?. <i>Applied Mathematical Modelling</i> , <b>2006</b> , 30, 1281-1292	4.5	89
121	Laminar flow and heat transfer in a periodic serpentine channel with semi-circular cross-section. <i>International Journal of Heat and Mass Transfer</i> , <b>2006</b> , 49, 2912-2923	4.9	72
120	Alternate Operating Methods for Improving the Performance of Continuous Stirred Tank Reactors. <i>Chemical Engineering Research and Design</i> , <b>2006</b> , 84, 569-582	5.5	29
119	Thermohydraulics of square-section microchannels following a serpentine path. <i>Microfluidics and Nanofluidics</i> , <b>2006</b> , 2, 195-204	2.8	35
118	Laminar Flow and Heat Transfer in Periodic Serpentine Mini-Channels. <i>Journal of Enhanced Heat Transfer</i> , <b>2006</b> , 13, 309-320	1.7	16
117	Analysis of the Dynamic Response of a Reverse Osmosis Membrane to Time-Dependent Transmembrane Pressure Variation. <i>Industrial &amp; Engineering Chemistry Research</i> , <b>2005</b> , 44, 7823-7834	3.9	15
116	DETERMINATION OF THE INFLUENCE OF UNCERTAIN MODEL PARAMETERS IN PRESSURIZED GASIFICATION OF BLACK LIQUOR USING A FACTORIAL DESIGN. <i>Combustion Science and Technology</i> , <b>2005</b> , 177, 435-453	1.5	3
115	The influence of inclined plates on expansion behaviour of solid suspensions in a liquid fluidised bed A computational fluid dynamics study. <i>Powder Technology</i> , <b>2005</b> , 160, 20-26	5.2	10
114	The influence of inclined plates on expansion behaviour of solid suspensions in a liquid fluidised bed B computational fluid dynamics study. <i>Powder Technology</i> , <b>2005</b> , 156, 1-7	5.2	30
113	Analysis of shear-induced coagulation in an emulsion polymerisation reactor using computational fluid dynamics. <i>Chemical Engineering Science</i> , <b>2005</b> , 60, 2005-2015	4.4	16
112	Computational Fluid Dynamics Simulations of Taylor Bubbles in Tubular Membranes. <i>Chemical Engineering Research and Design</i> , <b>2005</b> , 83, 40-49	5.5	46
111	Exploration of Spinning Cone Column Capacity and Mass Transfer Performance Using CFD. <i>Chemical Engineering Research and Design</i> , <b>2005</b> , 83, 1372-1380	5.5	9
110	CFD Analysis of Scale Effects in Spinning Cone Columns. <i>Chemical Engineering Research and Design</i> , <b>2005</b> , 83, 951-958	5.5	3
109	CFD Prediction of Odour Dispersion and Plume Visibility for Alumina Refinery Calciner Stacks. <i>Chemical Engineering Research and Design</i> , <b>2005</b> , 83, 231-241	5.5	11
108	Laminar Flow and Heat Transfer in a Periodic Serpentine Channel. <i>Chemical Engineering and Technology</i> , <b>2005</b> , 28, 353-361	2	50
107	Design of micromixers using CFD modelling. <i>Chemical Engineering Science</i> , <b>2005</b> , 60, 2503-2516	4.4	140
106	The role of capsule on the performance of a dry powder inhaler using computational and experimental analyses. <i>Pharmaceutical Research</i> , <b>2005</b> , 22, 923-32	4.5	87
105	Influence of air flow on the performance of a dry powder inhaler using computational and experimental analyses. <i>Pharmaceutical Research</i> , <b>2005</b> , 22, 1445-53	4.5	131

104	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> , <b>2004</b> , 28, 431-445	3	170
103	Simulation of the Effects of Inlet Swirl on Gas Flow Patterns in a Pilot-Scale Spray Dryer. <i>Chemical Engineering Research and Design</i> , <b>2004</b> , 82, 821-833	5.5	45
102	Mass Transfer Analysis of Spinning Cone Columns Using CFD. <i>Chemical Engineering Research and Design</i> , <b>2004</b> , 82, 752-761	5.5	21
101	Simulation of the agglomeration in a spray using Lagrangian particle tracking. <i>Applied Mathematical Modelling</i> , <b>2004</b> , 28, 273-290	4.5	47
100	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> , <b>2004</b> , 93, 2863-76	3.9	132
99	Spiral wound modules and spacers. <i>Journal of Membrane Science</i> , <b>2004</b> , 242, 129-153	9.6	265
98	A computational fluids dynamics study of buoyancy effects in reverse osmosis. <i>Journal of Membrane Science</i> , <b>2004</b> , 245, 175-181	9.6	71
97	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> , <b>2004</b> , 28, 447-456	3	79
96	Influence of inclined plates on the expansion behaviour of particulate suspensions in a liquid fluidised bed. <i>Chemical Engineering Science</i> , <b>2004</b> , 59, 3559-3567	4.4	27
95	Hydrodynamic control of the interface between two liquids flowing through a horizontal or vertical microchannel. <i>Lab on A Chip</i> , <b>2004</b> , 4, 121-4	7.2	36
94	Challenges of Simulating Droplet Coalescence within a Spray. <i>Drying Technology</i> , <b>2004</b> , 22, 1463-1488	2.6	44
93	Progress in Understanding the Physical Processes Inside Spinning Cone Columns. <i>Chemical Engineering Research and Design</i> , <b>2003</b> , 81, 122-130	5.5	12
92	Simulation of Gas Flow Instability in a Spray Dryer. <i>Chemical Engineering Research and Design</i> , <b>2003</b> , 81, 631-638	5.5	28
91	Characterization of the Mixing Quality in Micromixers. <i>Chemical Engineering and Technology</i> , <b>2003</b> , 26, 1262-1270	2	100
90	Local condensation heat transfer rates in fine passages. <i>International Journal of Heat and Mass Transfer</i> , <b>2003</b> , 46, 4453-4466	4.9	73
89	Techniques for computational fluid dynamics modelling of flow in membrane channels. <i>Journal of Membrane Science</i> , <b>2003</b> , 211, 127-137	9.6	137
88	Subcooled flow boiling heat transfer in narrow passages. <i>International Journal of Heat and Mass Transfer</i> , <b>2003</b> , 46, 3673-3682	4.9	35
87	Prospects for the Modelling and Design of Spray Dryers in the 21st Century. <i>Drying Technology</i> , <b>2003</b> , 21, 197-215	2.6	48

86	Arterial pulsation-driven cerebrospinal fluid flow in the perivascular space: a computational model. <i>Computer Methods in Biomechanics and Biomedical Engineering</i> , <b>2003</b> , 6, 235-41	2.1	104
85	Simulation of Unsteady Flow and Vortex Shedding for Narrow Spacer-Filled Channels. <i>Industrial &amp; Engineering Chemistry Research</i> , <b>2003</b> , 42, 4962-4977	3.9	60
84	Effects of gravity on the steady state of a reaction in a liquid-state microreactor—Deviations from Poiseuille flow. <i>Physical Chemistry Chemical Physics</i> , <b>2003</b> , 5, 1219-1224	3.6	6
83	A Computational Fluid Dynamics Study of a Tall-Form Spray Dryer. <i>Food and Bioprocesses Processing</i> , <b>2002</b> , 80, 163-175	4.9	37
82	CFD analysis of spinning cone columns: prediction of unsteady gas flow and pressure drop in a dry column. <i>Chemical Engineering Journal</i> , <b>2002</b> , 87, 301-311	14.7	7
81	CFD simulation of precession in sudden pipe expansion flows with low inlet swirl. <i>Applied Mathematical Modelling</i> , <b>2002</b> , 26, 1-15	4.5	34
80	Computational fluid dynamics modelling of flow and permeation for pressure-driven membrane processes. <i>Desalination</i> , <b>2002</b> , 145, 183-186	10.3	66
79	A CFD study of unsteady flow in narrow spacer-filled channels for spiral-wound membrane modules. <i>Desalination</i> , <b>2002</b> , 146, 195-201	10.3	92
78	Simulation of the Flow around Spacer Filaments between Narrow Channel Walls. 1. Hydrodynamics. <i>Industrial &amp; Engineering Chemistry Research</i> , <b>2002</b> , 41, 2977-2987	3.9	93
77	Simulation of the Flow around Spacer Filaments between Channel Walls. 2. Mass-Transfer Enhancement. <i>Industrial &amp; Engineering Chemistry Research</i> , <b>2002</b> , 41, 4879-4888	3.9	104
76	The effect of gravity on the rate of a simple neutralisation reaction in a small, open cylindrical vessel. <i>Physical Chemistry Chemical Physics</i> , <b>2002</b> , 4, 1587-1591	3.6	2
75	The solution of coupled flow and chemistry problems. <i>Progress in Computational Fluid Dynamics</i> , <b>2001</b> , 1, 43	0.7	4
74	FTIR spectroscopy measurements and CFD simulations of the pollutants arising from unflued combustion in a room. <i>Building and Environment</i> , <b>2001</b> , 36, 597-603	6.5	3
73	An assessment of turbulence models applied to the simulation of a two-dimensional submerged jet. <i>Applied Mathematical Modelling</i> , <b>2001</b> , 25, 635-653	4.5	29
72	Spray drying of food ingredients and applications of CFD in spray drying. <i>Chemical Engineering and Processing: Process Intensification</i> , <b>2001</b> , 40, 345-354	3.7	99
71	A new volume of fluid advection algorithm: the defined donating region scheme. <i>International Journal for Numerical Methods in Fluids</i> , <b>2001</b> , 35, 151-172	1.9	79
70	A hydrodynamic and thermodynamic simulation of droplet impacts on hot surfaces, Part I: theoretical model. <i>International Journal of Heat and Mass Transfer</i> , <b>2001</b> , 44, 2633-2642	4.9	65
69	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> , <b>2001</b> , 44, 2643-2659	4.9	56

68	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> , <b>2001</b> , 79, 845-856	5.5	84
67	Turbulent Shear Stress Effects on Plant Cell Suspension Cultures. <i>Chemical Engineering Research and Design</i> , <b>2001</b> , 79, 867-875	5.5	25
66	Numerical Simulations of Gas Flow Patterns Within a Tall-Form Spray Dryer. <i>Chemical Engineering Research and Design</i> , <b>2001</b> , 79, 235-248	5.5	31
65	Experimental Measurement and Numerical Simulation of the Effect of Swirl on Flow Stability in Spray Dryers. <i>Chemical Engineering Research and Design</i> , <b>2001</b> , 79, 260-268	5.5	22
64	Physical and numerical modelling of thunderstorm downbursts. <i>Journal of Wind Engineering and Industrial Aerodynamics</i> , <b>2001</b> , 89, 535-552	3.7	120
63	Numerical Simulation of Unsteady Turbulent Flow in Axisymmetric Sudden Expansions. <i>Journal of Fluids Engineering, Transactions of the ASME</i> , <b>2001</b> , 123, 574-587	2.1	44
62	A Simple Kinetic Theory Treatment of Volatile Liquid-Gas Interfaces. <i>Journal of Heat Transfer</i> , <b>2001</b> , 123, 486-491	1.8	21
61	Simulation of Turbulent Swirl Flow in an Axisymmetric Sudden Expansion. <i>AIAA Journal</i> , <b>2001</b> , 39, 96-102.	2.1	63
60	The effect of gravity on the rate of a simple liquid-state reaction in a small, unstirred cylindrical vessel. <i>Physical Chemistry Chemical Physics</i> , <b>2001</b> , 3, 1617-1621	3.6	4
59	USE OF COMPUTATIONAL FLUID DYNAMICS TECHNIQUES TO ASSESS DESIGN ALTERNATIVES FOR THE PLENUM CHAMBER OF A SMALL SPRAY DRYER. <i>Drying Technology</i> , <b>2001</b> , 19, 257-268	2.6	24
58	The effect of gravity on the rates of simple liquid-state reactions in a small, unstirred cylindrical vessel. Part II.. <i>Physical Chemistry Chemical Physics</i> , <b>2001</b> , 3, 3651-3655	3.6	3
57	A New Volume of Fluid Advection Algorithm: The Stream Scheme. <i>Journal of Computational Physics</i> , <b>2000</b> , 162, 1-32	4.1	124
56	An experimental study of gas-liquid flow in a narrow conduit. <i>International Journal of Heat and Mass Transfer</i> , <b>2000</b> , 43, 2313-2324	4.9	40
55	Flow boiling heat transfer of Freon R11 and HCFC123 in narrow passages. <i>International Journal of Heat and Mass Transfer</i> , <b>2000</b> , 43, 3347-3358	4.9	224
54	Simulation of the ignition of lean methane mixtures using CFD modelling and a reduced chemistry mechanism. <i>Applied Mathematical Modelling</i> , <b>2000</b> , 24, 689-696	4.5	18
53	A CFD based combustion model of an entrained flow biomass gasifier. <i>Applied Mathematical Modelling</i> , <b>2000</b> , 24, 165-182	4.5	109
52	Cobra probe measurements of mean velocities, Reynolds stresses and higher-order velocity correlations in pipe flow. <i>Experimental Thermal and Fluid Science</i> , <b>2000</b> , 21, 206-217	3	28
51	LOCAL FLOW BOILING HEAT TRANSFER COEFFICIENTS IN NARROW CONDUITS. <i>Multiphase Science and Technology</i> , <b>2000</b> , 12, 16	1	9

50	Particle-Fluid Dynamics in Narrow Slit Settler Driven by Asymmetric Feed. <i>Journal of Hydraulic Engineering</i> , <b>1999</b> , 125, 1140-1149	1.8	1
49	Computational aspects of premixing modelling. <i>Nuclear Engineering and Design</i> , <b>1999</b> , 189, 179-189	1.8	3
48	The effect of coolant viscosity on natural convection film boiling. <i>Nuclear Engineering and Design</i> , <b>1999</b> , 189, 239-250	1.8	4
47	Solid fire extinguishment by a water spray. <i>Fire Safety Journal</i> , <b>1999</b> , 32, 119-135	3.3	24
46	Process Intensification in Spray Dryers by Turbulence Enhancement. <i>Chemical Engineering Research and Design</i> , <b>1999</b> , 77, 189-205	5.5	18
45	Radiation absorption during premixing. <i>Nuclear Engineering and Design</i> , <b>1999</b> , 189, 435-440	1.8	6
44	Computer modelling of the cerebrospinal fluid flow dynamics of aqueduct stenosis. <i>Medical and Biological Engineering and Computing</i> , <b>1999</b> , 37, 59-63	3.1	39
43	Computer modelling of CSF flow in the subarachnoid space. <i>Journal of Clinical Neuroscience</i> , <b>1999</b> , 6, 498-500	2.2	3
42	Effects of the structural properties of solid fuels on their re-ignition characteristics. <i>Fire and Materials</i> , <b>1998</b> , 22, 155-165	1.8	12
41	Computational fluid dynamics modelling of an entrained flow biomass gasifier. <i>Applied Mathematical Modelling</i> , <b>1998</b> , 22, 747-757	4.5	24
40	Flow and mixing fields of turbulent bluff-body jets and flames. <i>Combustion Theory and Modelling</i> , <b>1998</b> , 2, 193-219	1.5	143
39	Heat Transfer and Fluid Dynamic Aspects of Explosive Melt/Water Interactions. <i>Advances in Heat Transfer</i> , <b>1997</b> , 129-213	1.9	17
38	MATHEMATICAL MODELLING OF A ROTARY SWIRL CYCLONE SCRUBBER. <i>Chemical Engineering Communications</i> , <b>1997</b> , 161, 65-87	2.2	6
37	A new correlation for bench-scale piloted ignition data of wood. <i>Fire Safety Journal</i> , <b>1997</b> , 29, 41-59	3.3	47
36	An integral model for the transient pyrolysis of solid materials. <i>Fire and Materials</i> , <b>1997</b> , 21, 7-16	1.8	57
35	Fluid dynamics of the cerebral aqueduct. <i>Pediatric Neurosurgery</i> , <b>1996</b> , 24, 229-36	0.9	60
34	Numerical studies of multiphase mixing with application to some small-scale experiments. <i>Nuclear Engineering and Design</i> , <b>1996</b> , 166, 135-145	1.8	14
33	Measurements of no in turbulent non-premixed flames stabilized on a bluff body. <i>Proceedings of the Combustion Institute</i> , <b>1996</b> , 26, 2191-2197		24

32	Computational fluid dynamics modelling of wood combustion. <i>Fire Safety Journal</i> , <b>1996</b> , 27, 69-84	3.3	38
31	Mathematical Modelling of the Piloted Ignition of Wet Wood Using the Heat-Balance Integral Method. <i>Journal of Applied Fire Science</i> , <b>1996</b> , 6, 91-107		10
30	The Effect of Char Oxidation on the Flaming Combustion Characteristics of Wood Materials. <i>Journal of Applied Fire Science</i> , <b>1996</b> , 6, 189-201		1
29	Steam explosion triggering: a review of theoretical and experimental investigations. <i>Nuclear Engineering and Design</i> , <b>1995</b> , 155, 27-36	1.8	48
28	Validation of the Chymes mixing model. <i>Nuclear Engineering and Design</i> , <b>1995</b> , 155, 85-96	1.8	6
27	Validation of Chymes: simulant studies. <i>Nuclear Engineering and Design</i> , <b>1995</b> , 155, 97-114	1.8	9
26	Propagation investigations using the CULDESAC model. <i>Nuclear Engineering and Design</i> , <b>1995</b> , 155, 271-287		4
25	Quantification of the probability of containment failure caused by an in-vessel steam explosion for the Sizewell B PWR. <i>Nuclear Engineering and Design</i> , <b>1995</b> , 155, 445-458	1.8	3
24	Numerical Simulation of Enclosed Gas Fire Extinguishment by a Water Spray. <i>Journal of Applied Fire Science</i> , <b>1995</b> , 5, 135-146		11
23	Vapour explosions: multiphase detonations or deflagrations?. <i>Shock Waves</i> , <b>1994</b> , 3, 181-192	1.6	5
22	Numerical simulations of smoke movement from a pool fire in a ventilated tunnel. <i>Fire Safety Journal</i> , <b>1994</b> , 23, 305-325	3.3	54
21	Recent progress in the understanding of steam explosions. <i>Journal of Loss Prevention in the Process Industries</i> , <b>1994</b> , 7, 457-462	3.5	6
20	Experiments on the mixing of molten uranium dioxide with water and initial comparisons with CHYMES code calculations. <i>Nuclear Engineering and Design</i> , <b>1994</b> , 146, 97-108	1.8	8
19	Numerical simulation of a laminar jet flow: a comparison of three CFD models. <i>Computer Physics Communications</i> , <b>1993</b> , 78, 113-120	4.2	6
18	Calculations of the wind-induced pressure distribution on a model building. <i>Fire Safety Journal</i> , <b>1993</b> , 21, 189-205	3.3	6
17	A comparison of coarse mixing predictions obtained from the CHYMES and PM-ALPHA models. <i>Nuclear Engineering and Design</i> , <b>1992</b> , 135, 419-425	1.8	11
16	The CHYMES coarse mixing model. <i>Progress in Nuclear Energy</i> , <b>1991</b> , 26, 31-61	2.3	21
15	A finite difference error arising from the use of a staggered grid. <i>Applied Mathematical Modelling</i> , <b>1991</b> , 15, 496-498	4.5	4



14	Low Mach number instability of an explicit numerical scheme. <i>Applied Mathematical Modelling</i> , <b>1991</b> , 15, 40-45	4.5	2
13	An improved mathematical model of melt/water detonationsII Model formulation and example results. <i>International Journal of Heat and Mass Transfer</i> , <b>1991</b> , 34, 2435-2448	4.9	25
12	An improved mathematical model of melt/water detonationsII. A study of escalation. <i>International Journal of Heat and Mass Transfer</i> , <b>1991</b> , 34, 2449-2459	4.9	11
11	A review of pressure-induced propagation models of the vapour explosion process. <i>Progress in Nuclear Energy</i> , <b>1990</b> , 23, 137-179	2.3	47
10	The nonhyperbolicity of multiphase flow equations: A nonlinear nonproblem?. <i>Computer Physics Communications</i> , <b>1989</b> , 56, 115-127	4.2	6
9	A mathematical model of melt/water detonations. <i>Applied Mathematical Modelling</i> , <b>1989</b> , 13, 339-347	4.5	18
8	Some calculations of shocks and detonations for gas mixtures. <i>Computers and Fluids</i> , <b>1989</b> , 17, 333-350	2.8	8
7	Comments on Fuel-Coolant Premixing Modeling. <i>Nuclear Science and Engineering</i> , <b>1989</b> , 103, 101-102	1.2	2
6	Buoyancy-driven, transient, two-dimensional thermo-hydrodynamics of a melt-water-steam mixture. <i>Computers and Fluids</i> , <b>1988</b> , 16, 59-80	2.8	16
5	The particle size distribution of solidified melt debris from molten fuel-coolant interaction experiments. <i>Nuclear Engineering and Design</i> , <b>1988</b> , 105, 313-319	1.8	16
4	One-dimensional calculations of two-phase mixing flows. <i>International Journal for Numerical Methods in Engineering</i> , <b>1987</b> , 24, 459-469	2.4	6
3	Heat and mass transfer computations for laminar flow in an axisymmetric sudden expansion. <i>Computers and Fluids</i> , <b>1985</b> , 13, 207-221	2.8	25
2	Comments on the numerical scheme of Richards and Crane. <i>Applied Mathematical Modelling</i> , <b>1983</b> , 7, 63-64	4.5	1
1	Liquid volume and squeeze force effects on nasal irrigation using Volume of Fluid modelling. <i>Experimental and Computational Multiphase Flow</i> ,1	4.2	1