Niels G Deen

List of Publications by Year in descending order

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41258 9,498 167 49 citations h-index papers

g-index 172 172 172 4455 citing authors docs citations times ranked all docs

45213

90

#	Article	IF	CITATIONS
1	Single Contaminated Drops Falling through Stagnant Liquid at Low Reynolds Numbers. Fluids, 2022, 7, 55.	0.8	1
2	CFD modeling of droplet permeability in fluidized beds. International Journal of Multiphase Flow, 2022, 152, 104069.	1.6	5
3	Incorporation of flamelets generated manifold method in coarse-grained Euler-Lagrange simulations of pulverized coal combustion. Chemical Engineering Science, 2022, 260, 117838.	1.9	3
4	On the treatment of bed-to-wall heat transfer in CFD-DEM simulations of gas-fluidized beds. Chemical Engineering Science, 2021, 236, 116492.	1.9	17
5	Competing Marangoni effects form a stagnant cap on the interface of a hydrogen bubble attached to a microelectrode. Electrochimica Acta, 2021, 385, 138298.	2.6	24
6	CFD-DEM simulations of riser geometry effect and cluster phenomena. Advanced Powder Technology, 2021, 32, 3234-3247.	2.0	7
7	Scaling method of CFD-DEM simulations for gas-solid flows in risers. Chemical Engineering Science: X, 2020, 6, 100054.	1.5	7
8	An improved subgrid scale model for frontâ€tracking based simulations of mass transfer from bubbles. AICHE Journal, 2020, 66, e16889.	1.8	16
9	Aspect ratio of bubbles in different liquid media: A novel correlation. Chemical Engineering Science, 2020, 215, 115383.	1.9	26
10	CFD modeling of multiphase flow in an alkaline water electrolyzer. Chemical Engineering Science, 2020, 227, 115926.	1.9	31
11	DNS of droplet impact on a solid particle: Effect of wettability on solid conjugate heat transfer. International Journal of Heat and Mass Transfer, 2020, 158, 119859.	2.5	4
12	Hydrodynamic and Heat Transfer Study of a Fluidized Bed by Discrete Particle Simulations. Processes, 2020, 8, 463.	1.3	12
13	Borescopic particle image velocimetry in bubbling gas–solid fluidized beds. Particuology, 2019, 43, 66-75.	2.0	4
14	Trajectory integrated smoothening of exchange fields for discrete phase simulations. Computers and Fluids, 2019, 186, 15-23.	1.3	4
15	Modelling compression ignition engines by incorporation of the flamelet generated manifolds combustion closure. Combustion Theory and Modelling, 2019, 23, 414-438.	1.0	10
16	Experimental study on orientation and de-mixing phenomena of elongated particles in gas-fluidized beds. Powder Technology, 2018, 329, 332-344.	2.1	27
17	Numerical investigation of collision dynamics of wet particles via force balance. Chemical Engineering Research and Design, 2018, 132, 1143-1159.	2.7	32
18	Borescopy in pressurized gasâ€solid fluidized beds. AICHE Journal, 2018, 64, 3303-3311.	1.8	4

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19	Drag and heat transfer closures for realistic numerically generated random open-cell solid foams using an immersed boundary method. Chemical Engineering Science, 2018, 183, 260-274.	1.9	34
20	Droplet spreading and capillary imbibition in a porous medium: A coupled IB-VOF method based numerical study. Physics of Fluids, 2018, 30, .	1.6	49
21	Particle mixing rates using the two-fluid model. Particuology, 2018, 36, 13-26.	2.0	12
22	Multiscale modeling of fixed-bed reactors with porous (open-cell foam) non-spherical particles: Hydrodynamics. Chemical Engineering Journal, 2018, 334, 741-759.	6.6	51
23	Dynamics of wet particle–wall collisions: Influence of wetting condition. Chemical Engineering Research and Design, 2018, 135, 21-29.	2.7	22
24	Tracking of particles using TFM in gas-solid fluidized beds. Advanced Powder Technology, 2018, 29, 2538-2547.	2.0	12
25	A sharp-interface Immersed Boundary Method to simulate convective and conjugate heat transfer through highly complex periodic porous structures. Chemical Engineering Science, 2018, 191, 1-18.	1.9	29
26	A combined experimental and simulation study of fluid-particle heat transfer in dense arrays of stationary particles. Chemical Engineering Science, 2017, 169, 310-320.	1.9	10
27	Effect of operating pressure on particle temperature distribution in a fluidized bed with heat production. Chemical Engineering Science, 2017, 169, 299-309.	1.9	16
28	Cutting bubbles with a single wire. Chemical Engineering Science, 2017, 157, 138-146.	1.9	16
29	Experimental and numerical investigation of a micro-structured bubble column with chemisorption. Chemical Engineering Science, 2017, 169, 225-234.	1.9	14
30	Collision dynamics of wet solids: Rebound and rotation. Powder Technology, 2017, 316, 218-224.	2.1	35
31	A numerical study of cutting bubbles with a wire mesh. Chemical Engineering Science, 2017, 165, 25-32.	1.9	16
32	Immersed boundary method (IBM) based direct numerical simulation of openâ€eell solid foams: Hydrodynamics. AICHE Journal, 2017, 63, 1152-1173.	1.8	35
33	Experimental and simulation study of heat transfer in fluidized beds with heat production. Chemical Engineering Journal, 2017, 317, 242-257.	6.6	45
34	Effect of viscosity on droplet-droplet collisional interaction. Physics of Fluids, 2017, 29, .	1.6	63
35	Magnetic particle tracking for nonspherical particles in a cylindrical fluidized bed. AICHE Journal, 2017, 63, 5335-5342.	1.8	40
36	Lane change in flows through pillared microchannels. Physics of Fluids, 2017, 29, 113102.	1.6	40

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37	Interfaceâ€resolved simulations of normal collisions of spheres on a wet surface. AICHE Journal, 2017, 63, 4774-4787.	1.8	14
38	Effect of Superficial Gas Velocity on the Solid Temperature Distribution in Gas Fluidized Beds with Heat Production. Industrial & Engineering Chemistry Research, 2017, 56, 8729-8737.	1.8	15
39	A DNS study of flow and heat transfer through slender fixed-bed reactors randomly packed with spherical particles. Chemical Engineering Science, 2017, 160, 1-19.	1.9	92
40	Direct numerical simulation of effective drag in dense gas–liquid–solid three-phase flows. Chemical Engineering Science, 2017, 158, 561-568.	1.9	26
41	Extending the Flamelet Generated Manifold for Soot and NOx Modeling in Diesel Spray Combustion. The Proceedings of the International Symposium on Diagnostics and Modeling of Combustion in Internal Combustion Engines, 2017, 2017.9, A105.	0.1	0
42	Direct numerical simulation for flow and heat transfer through random open-cell solid foams: Development of an IBM based CFD model. Catalysis Today, 2016, 273, 140-150.	2.2	44
43	On an efficient hybrid soft and hard sphere collision integration scheme for DEM. Chemical Engineering Science, 2016, 153, 363-373.	1.9	20
44	An experimental study of droplet-particle collisions. Powder Technology, 2016, 300, 157-163.	2.1	74
45	Experimental study of oblique impact of particles on wet surfaces. Chemical Engineering Research and Design, 2016, 110, 209-219.	2.7	40
46	Solids volume fraction measurements on riser flow using a temporalâ€histogram based DIA method. AICHE Journal, 2016, 62, 2681-2698.	1.8	10
47	Effect of superficial gas velocity on the particle temperature distribution in a fluidized bed with heat production. Chemical Engineering Science, 2016, 140, 279-290.	1.9	30
48	Direct numerical simulations and experiments of a pseudo-2D gas-fluidized bed. Chemical Engineering Science, 2016, 143, 166-180.	1.9	52
49	Coefficient of restitution for particles impacting on wet surfaces: An improved experimental approach. Particuology, 2016, 25, 1-9.	2.0	67
50	Gas–liquid mass transfer enhancement by catalyst particles, a modelling study. Chemical Engineering Science, 2016, 145, 233-244.	1.9	10
51	CFD–DEM model for coupled heat and mass transfer in a spout fluidized bed with liquid injection. Chemical Engineering Journal, 2016, 288, 185-197.	6.6	100
52	On the accuracy of Landweber and Tikhonov reconstruction techniques in gasâ€solid fluidized bed applications. AICHE Journal, 2015, 61, 4102-4113.	1.8	14
53	Determination and comparison of rotational velocity in a pseudo 2â€D fluidized bed using magnetic particle tracking and discrete particle modeling. AICHE Journal, 2015, 61, 3198-3207.	1.8	31
54	Hybrid PIV/PTV measurements of velocity and position distributions of gasâ€conveyed particles in small, narrow channels. AICHE Journal, 2015, 61, 3616-3627.	1.8	4

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55	Euler–Lagrange Modeling of the Hydrodynamics of Dense Multiphase Flows. Advances in Chemical Engineering, 2015, 46, 137-191.	0.5	4
56	A novel approach to determine wet restitution coefficients through a unified correlation and energy analysis. AICHE Journal, 2015, 61, 769-779.	1.8	44
57	Experimental study of hydrodynamics and thermal behavior of a pseudoâ€2D spoutâ€fluidized bed with liquid injection. AICHE Journal, 2015, 61, 1146-1159.	1.8	40
58	Investigations on the spouting stability in a prismatic spouted bed and apparatus optimization. Advanced Powder Technology, 2015, 26, 718-733.	2.0	42
59	Numerical modeling of carbon dioxide chemisorption in sodium hydroxide solution in a micro-structured bubble column. Chemical Engineering Science, 2015, 137, 685-696.	1.9	28
60	Experimental studies of bubbly flow in a pseudo-2D micro-structured bubble column reactor using digital image analysis. Chemical Engineering Science, 2015, 130, 18-30.	1.9	28
61	Scale-Adaptive Simulation of a square cross-sectional bubble column. Chemical Engineering Science, 2015, 131, 101-108.	1.9	40
62	Effect of bed size on hydrodynamics in 3â€D gas–solid fluidized beds. AICHE Journal, 2015, 61, 1492-1506.	1.8	31
63	Numerical and experimental investigation of induced flow and droplet–droplet interactions in a liquid spray. Chemical Engineering Science, 2015, 138, 17-30.	1.9	25
64	Solids velocity fields in a cold-flow Gas–Solid Vortex Reactor. Chemical Engineering Science, 2015, 123, 220-230.	1.9	30
65	Experimental and numerical investigations of a pseudo-2D spout fluidized bed with draft plates. Powder Technology, 2015, 270, 537-547.	2.1	34
66	Characterization and CFD-DEM modelling of a prismatic spouted bed. Powder Technology, 2015, 270, 622-636.	2.1	90
67	Immersed boundary method applied to single phase flow past crossing cylinders – Heat transfer. Chemical Engineering Science, 2015, 123, 322-327.	1.9	0
68	A study of heat transfer in fluidized beds using an integrated DIA/PIV/IR technique. Chemical Engineering Journal, 2015, 259, 90-106.	6.6	78
69	An experimental study of dynamic jet behaviour in a scaled cold flow spray dryer model using PIV. Canadian Journal of Chemical Engineering, 2014, 92, 2013-2020.	0.9	6
70	Simulation of particle mixing and segregation in bidisperse gas fluidized beds. Chemical Engineering Science, 2014, 108, 258-269.	1.9	45
71	Bubble dynamics in a 3â€D gas–solid fluidized bed using ultrafast electron beam Xâ€ray tomography and twoâ€fluid model. AICHE Journal, 2014, 60, 1632-1644.	1.8	76
72	Bubble formation at a central orifice in a gas–solid fluidized bed predicted by three-dimensional two-fluid model simulations. Chemical Engineering Journal, 2014, 245, 217-227.	6.6	24

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73	Numerical study of bubble break-up in bubbly flows using a deterministic Euler–Lagrange framework. Chemical Engineering Science, 2014, 108, 9-22.	1.9	60
74	Numerical Investigation on the Effect of Pressure on Fluidization in a 3D Fluidized Bed. Industrial & Lamp; Engineering Chemistry Research, 2014, 53, 17487-17498.	1.8	21
75	Numerical study of coalescence and breakup in a bubble column using a hybrid volume of fluid and discrete bubble model approach. Chemical Engineering Science, 2014, 119, 134-146.	1.9	47
76	Direct Numerical Simulation (DNS) of mass, momentum and heat transfer in dense fluid-particle systems. Current Opinion in Chemical Engineering, 2014, 5, 84-89.	3.8	35
77	Lagrangian modelling of dilute granular flow—modified stochastic DSMC versus deterministic DPM. Chemical Engineering Science, 2014, 105, 132-142.	1.9	23
78	Improved magnetic particle tracking technique in dense gas fluidized beds. AICHE Journal, 2014, 60, 3133-3142.	1.8	64
79	Review of direct numerical simulation of fluid–particle mass, momentum and heat transfer in dense gas–solid flows. Chemical Engineering Science, 2014, 116, 710-724.	1.9	149
80	Direct numerical simulation of fluid flow accompanied by coupled mass and heat transfer in dense fluid–particle systems. Chemical Engineering Science, 2014, 116, 645-656.	1.9	40
81	A critical comparison of surface tension models for the volume of fluid method. Chemical Engineering Science, 2014, 109, 65-74.	1.9	53
82	Segregation dynamics in dense polydisperse gas-fluidized beds. Powder Technology, 2013, 246, 695-706.	2.1	31
83	Direct Numerical Simulation of Fluid Flow and Mass Transfer in Dense Fluid–Particle Systems. Industrial & Engineering Chemistry Research, 2013, 52, 11266-11274.	1.8	34
84	Improved digital image analysis technique for the evaluation of segregation in pseudo-2D beds. Powder Technology, 2013, 244, 61-74.	2.1	33
85	Development of an image measurement technique for size distribution in dense bubbly flows. Chemical Engineering Science, 2013, 94, 20-29.	1.9	148
86	Two-fluid modeling of three-dimensional cylindrical gas–solid fluidized beds using the kinetic theory of granular flow. Chemical Engineering Science, 2013, 102, 227-245.	1.9	61
87	Spout fluidized beds: Recent advances in experimental and numerical studies. Chemical Engineering Science, 2013, 86, 124-136.	1.9	87
88	Numerical investigations of a pseudo-2D spout fluidized bed with draft plates using a scaled discrete particle model. Chemical Engineering Science, 2013, 104, 790-807.	1.9	49
89	Immersed Boundary Method applied to single phase flow past crossing cylinders. Chemical Engineering Science, 2013, 100, 33-38.	1.9	7
90	Direct numerical simulation of wall-to liquid heat transfer in dispersed gas–liquid two-phase flow using a volume of fluid approach. Chemical Engineering Science, 2013, 102, 268-282.	1.9	44

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91	Experimental study of monodisperse granular flow through an inclined rotating chute. Powder Technology, 2013, 246, 235-246.	2.1	22
92	Direct Numerical Simulations of gas–liquid–solid three phase flows. Chemical Engineering Science, 2013, 100, 293-299.	1.9	25
93	Discrete bubble modeling for a micro-structured bubble column. Chemical Engineering Science, 2013, 100, 496-505.	1.9	31
94	Experimental investigations of a pseudo-2D spout fluidized bed with draft plates. Chemical Engineering Science, 2013, 102, 524-543.	1.9	38
95	Experimental study of the bubble size distribution in a pseudo-2D bubble column. Chemical Engineering Science, 2013, 98, 203-211.	1.9	74
96	Large Eddy Simulation for Dispersed Bubbly Flows: A Review. International Journal of Chemical Engineering, 2013, 2013, 1-22.	1.4	44
97	Direct numerical simulation of flow and heat transfer in dense fluid–particle systems. Chemical Engineering Science, 2012, 81, 329-344.	1.9	195
98	Discrete particle modeling of granular temperature distribution in a bubbling fluidized bed. Particuology, 2012, 10, 428-437.	2.0	48
99	Influence of rolling friction on single spout fluidized bed simulation. Particuology, 2012, 10, 582-591.	2.0	399
100	Development and validation of a novel Digital Image Analysis method for fluidized bed Particle Image Velocimetry. Powder Technology, 2012, 230, 193-202.	2.1	48
101	Bubble Size Distribution in Two-Dimensional Gas–Solid Fluidized Beds. Industrial & Engineering Chemistry Research, 2012, 51, 6571-6579.	1.8	36
102	Experimental Study of Large Scale Fluidized Beds at Elevated Pressure. Industrial & Engineering Chemistry Research, 2012, 51, 1962-1969.	1.8	19
103	Numerical Investigation of Gas Holdup and Phase Mixing in Bubble Column Reactors. Industrial & Engineering Chemistry Research, 2012, 51, 1949-1961.	1.8	13
104	Numerical and experimental study on spout elevation in spoutâ€fluidized beds. AICHE Journal, 2012, 58, 2524-2535.	1.8	40
105	Novel phenomenological discrete bubble model of freely bubbling dense gas–solid fluidized beds: Application to twoâ€dimensional beds. AICHE Journal, 2012, 58, 3306-3317.	1.8	17
106	Direct numerical simulation of particle impact on thin liquid films using a combined volume of fluid and immersed boundary method. Chemical Engineering Science, 2012, 69, 530-540.	1.9	41
107	Numerical Analysis of the Effect of Gas Sparging on Bubble Column Hydrodynamics. Industrial & Engineering Chemistry Research, 2011, 50, 4320-4328.	1.8	12
108	An experimental study of the effect of collision properties on spout fluidized bed dynamics. Powder Technology, 2011, 206, 139-148.	2.1	70

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109	Bubble Behaviour in Fluidised Beds at Elevated Pressures. Macromolecular Materials and Engineering, 2011, 296, 270-277.	1.7	9
110	Numerical investigation of the drag closure for bubbles in bubble swarms. Chemical Engineering Science, 2011, 66, 3309-3316.	1.9	29
111	On the drag force of bubbles in bubble swarms at intermediate and high Reynolds numbers. Chemical Engineering Science, 2011, 66, 3204-3211.	1.9	132
112	Numerical and experimental study on multiple-spout fluidized beds. Chemical Engineering Science, 2011, 66, 2368-2376.	1.9	115
113	On image pre-processing for PIV of single- and two-phase flows over reflecting objects. Experiments in Fluids, 2010, 49, 525-530.	1.1	28
114	Energy absorption during compression and impact of dry elastic-plastic spherical granules. Granular Matter, 2010, 12, 15-47.	1.1	211
115	Use of Particle Imaging Velocimetry to measure liquid velocity profiles in liquid and liquid/gas flows through spacer filled channels. Journal of Membrane Science, 2010, 362, 143-153.	4.1	41
116	Bubble properties of heterogeneous bubbly flows in a square bubble column. , 2010, , .		4
117	Numerical Analysis of Solids Mixing in Pressurized Fluidized Beds. Industrial & Engineering Chemistry Research, 2010, 49, 5246-5253.	1.8	55
118	Discrete Particle Simulation Study on the Influence of the Restitution Coefficient on Spout Fluidized-Bed Dynamics. Chemical Engineering and Technology, 2009, 32, 454-462.	0.9	15
119	Threeâ€Dimensional Computational Fluid Dynamics Modeling of a Prismatic Spouted Bed. Chemical Engineering and Technology, 2009, 32, 470-481.	0.9	8
120	CFD modeling of a prismatic spouted bed with two adjustable gas inlets. Canadian Journal of Chemical Engineering, 2009, 87, 318-328.	0.9	14
121	A discrete element study of wet particle–particle interaction during granulation in a spout fluidized bed. Canadian Journal of Chemical Engineering, 2009, 87, 308-317.	0.9	59
122	Two- and Four-Way Coupled Euler–Lagrangian Large-Eddy Simulation of Turbulent Particle-Laden Channel Flow. Flow, Turbulence and Combustion, 2009, 82, 47-71.	1.4	91
123	Direct numerical simulation of complex multi-fluid flows using a combined front tracking and immersed boundary method. Chemical Engineering Science, 2009, 64, 2186-2201.	1.9	54
124	Characterization and CFD-modeling of the hydrodynamics of a prismatic spouted bed apparatus. Chemical Engineering Science, 2009, 64, 3352-3375.	1.9	73
125	Bubbles in spacers: Direct observation of bubble behavior in spacer filled membrane channels. Journal of Membrane Science, 2009, 333, 38-44.	4.1	34
126	Numerical study of homogeneous bubbly flow: Influence of the inlet conditions to the hydrodynamic behavior. International Journal of Multiphase Flow, 2009, 35, 1077-1099.	1.6	24

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127	Influence of liquid layers on energy absorption during particle impact. Particuology, 2009, 7, 245-259.	2.0	99
128	Comparison of fibre optical measurements and discrete element simulations for the study of granulation in a spout fluidized bed. Powder Technology, 2009, 189, 202-217.	2.1	59
129	Gasâ^'Solid Turbulent Flow in a Circulating Fluidized Bed Riser: Experimental and Numerical Study of Monodisperse Particle Systems. Industrial & Engineering Chemistry Research, 2009, 48, 8091-8097.	1.8	26
130	Eulerâ [^] 'Euler Modeling of Flow, Mass Transfer, and Chemical Reaction in a Bubble Column. Industrial & Lamp; Engineering Chemistry Research, 2009, 48, 47-57.	1.8	41
131	Gasâ^'Solid Turbulent Flow in a Circulating Fluidized Bed Riser: Numerical Study of Binary Particle Systems. Industrial & Engineering Chemistry Research, 2009, 48, 8098-8108.	1.8	42
132	Characterization of the pneumatic behavior of a novel spouted bed apparatus with two adjustable gas inlets. Chemical Engineering Science, 2008, 63, 791-814.	1.9	46
133	One-equation sub-grid scale (SGS) modelling for Euler–Euler large eddy simulation (EELES) of dispersed bubbly flow. Chemical Engineering Science, 2008, 63, 3923-3931.	1.9	66
134	PEPT and discrete particle simulation study of spoutâ€fluid bed regimes. AICHE Journal, 2008, 54, 1189-1202.	1.8	74
135	On the relationship between operating pressure and granular temperature: A discrete particle simulation study. Powder Technology, 2008, 182, 250-256.	2.1	30
136	Discrete particle simulations of an electric-field enhanced fluidized bed. Powder Technology, 2008, 183, 196-206.	2.1	30
137	Experimental and numerical study of wall-induced granular convection. Powder Technology, 2008, 184, 166-176.	2.1	29
138	Numerical Simulation of Dense Gas-Solid Fluidized Beds: A Multiscale Modeling Strategy. Annual Review of Fluid Mechanics, 2008, 40, 47-70.	10.8	517
139	Chapter 23 Multi-level computational fluid dynamics models for the description of particle mixing and granulation in fluidized beds. Handbook of Powder Technology, 2007, 11, 1071-1107.	0.1	3
140	Numerical simulation of dense gas-particle flows using the Euler Lagrange approach. Progress in Computational Fluid Dynamics, 2007, 7, 152.	0.1	4
141	Extension of PIV for measuring granular temperature field in dense fluidized beds. AICHE Journal, 2007, 53, 108-118.	1.8	33
142	Review of discrete particle modeling of fluidized beds. Chemical Engineering Science, 2007, 62, 28-44.	1.9	796
143	Discrete element study of granulation in a spout-fluidized bed. Chemical Engineering Science, 2007, 62, 195-207 Detailed modelling of hydrodynamics, mass transfer and chemical reactions in a bubble column using	1.9	77
144	a discrete bubble model: Chemisorption of <mml:math altimg="si53.gif" display="inline" overflow="scroll" td="" xml<="" 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: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"><td>1.9</td><td>112</td></mml:math>	1.9	112

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145	Detailed computational and experimental fluid dynamics of fluidized beds. Applied Mathematical Modelling, 2006, 30, 1459-1471.	2.2	27
146	Numerical simulation of the dynamic flow behavior in a bubble column: A study of closures for turbulence and interface forces. Chemical Engineering Science, 2006, 61, 7593-7608.	1.9	228
147	Parallelization of an Euler–Lagrange model using mixed domain decomposition and a mirror domain technique: Application to dispersed gas–liquid two-phase flow. Journal of Computational Physics, 2006, 220, 216-248.	1.9	105
148	Detailed 3D Modeling of Mass Transfer Processes in Two-Phase Flows with Dynamic Interfaces. Chemical Engineering and Technology, 2006, 29, 1027-1033.	0.9	43
149	Numerical simulation of behavior of gas bubbles using a 3-D front-tracking method. AICHE Journal, 2006, 52, 99-110.	1.8	113
150	Detailed modeling of hydrodynamics, mass transfer and chemical reactions in a bubble column using a discrete bubble model. Chemical Engineering Science, 2005, 60, 3383-3404.	1.9	130
151	Numerical simulation of gas bubbles behaviour using a three-dimensional volume of fluid method. Chemical Engineering Science, 2005, 60, 2999-3011.	1.9	313
152	Numerical investigation of closures for interface forces acting on single air-bubbles in water using Volume of Fluid and Front Tracking models. Chemical Engineering Science, 2005, 60, 6169-6175.	1.9	40
153	Numerical simulation of gas–liquid–solid flows using a combined front tracking and discrete particle method. Chemical Engineering Science, 2005, 60, 6188-6198.	1.9	73
154	Numerical investigation of hydrodynamics and mass transfer for in-line fiber arrays in laminar cross-flow at low Reynolds numbers. Chemical Engineering Science, 2005, 60, 1837-1847.	1.9	23
155	Flow regimes in a spout–fluid bed: A combined experimental and simulation study. Chemical Engineering Science, 2005, 60, 3425-3442.	1.9	270
156	Asymmetry-induced particle drift in a rotating flow. Physics of Fluids, 2005, 17, 072106.	1.6	10
157	Application of Coalescence and Breakup Models in a Discrete Bubble Model for Bubble Columns. Industrial & Discrete Bubble Model for Bubble Columns.	1.8	49
158	10.1063/1.1978921.1., 2005,,.		0
159	Multi-scale modeling of dispersed gas–liquid two-phase flow. Chemical Engineering Science, 2004, 59, 1853-1861.	1.9	145
160	Large-Eddy Simulation of a Particle-Laden Turbulent Channel Flow. ERCOFTAC Series, 2004, , 271-278.	0.1	11
161	Multi-Level Modelling of Dispersed Gas-Liquid Two-Phase Flows. Heat and Mass Transfer, 2004, , 139-157.	0.2	9
162	Measurement of Turbulent Mixing in a Confined Wake Flow Using Combined PIV and PLIF. Canadian Journal of Chemical Engineering, 2003, 81, 1149-1158.	0.9	17

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163	Particle image velocimetry measurements in an aerated stirred tank. Chemical Engineering Communications, 2002, 189, 1208-1221.	1.5	19
164	Two-Phase PIV in Bubbly Flows: Status and Trends. Chemical Engineering and Technology, 2002, 25, 97.	0.9	62
165	Flow Generated by an Aerated Rushton Impeller: Twoâ€phase PIV Experiments and Numerical Simulations. Canadian Journal of Chemical Engineering, 2002, 80, 1-15.	0.9	66
166	Large eddy simulation of the Gas–Liquid flow in a square cross-sectioned bubble column. Chemical Engineering Science, 2001, 56, 6341-6349.	1.9	296
167	Ensemble correlation PIV applied to bubble plumes rising in a bubble column. Chemical Engineering Science, 1999, 54, 5159-5171.	1.9	109