Jasper M Van Baten

List of Publications by Year
in descending order

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Version: 2024-02-01

138 papers	8,273 citations	39113 52 h-index	60403 85 g-index
139 all docs	139 docs citations	139 times ranked	6185 citing authors

#	Article	IF	Citations
1	Using the spreading pressure to inter-relate the characteristics of unary, binary and ternary mixture permeation across microporous membranes. Journal of Membrane Science, 2022, 643, 120049.	4.1	6
2	Highlighting the Anti-Synergy between Adsorption and Diffusion in Cation-Exchanged Faujasite Zeolites. ACS Omega, 2022, 7, 13050-13056.	1.6	8
3	Synergistically enhance confined diffusion by continuum intersecting channels in zeolites. Science Advances, 2021, 7, .	4.7	17
4	How Reliable Is the Ideal Adsorbed Solution Theory for the Estimation of Mixture Separation Selectivities in Microporous Crystalline Adsorbents?. ACS Omega, 2021, 6, 15499-15513.	1.6	19
5	Water/Alcohol Mixture Adsorption in Hydrophobic Materials: Enhanced Water Ingress Caused by Hydrogen Bonding. ACS Omega, 2020, 5, 28393-28402.	1.6	18
6	Using Molecular Simulations for Elucidation of Thermodynamic Nonidealities in Adsorption of CO₂-Containing Mixtures in NaX Zeolite. ACS Omega, 2020, 5, 20535-20542.	1.6	10
7	Using Molecular Simulations to Unravel the Benefits of Characterizing Mixture Permeation in Microporous Membranes in Terms of the Spreading Pressure. ACS Omega, 2020, 5, 32769-32780.	1.6	4
8	Simultaneous interlayer and intralayer space control in two-dimensional metalâ˜organic frameworks for acetylene/ethylene separation. Nature Communications, 2020, 11, 6259.	5.8	85
9	Elucidation of Selectivity Reversals for Binary Mixture Adsorption in Microporous Adsorbents. ACS Omega, 2020, 5, 9031-9040.	1.6	14
10	Elucidating Traffic Junction Effects in MFI Zeolite Using Kinetic Monte Carlo Simulations. ACS Omega, 2019, 4, 10761-10766.	1.6	4
11	Highlighting the origins and consequences of thermodynamic non-idealities in mixture separations using zeolites and metal-organic frameworks. Microporous and Mesoporous Materials, 2018, 267, 274-292.	2.2	27
12	Using Molecular Dynamics simulations for elucidation of molecular traffic in ordered crystalline microporous materials. Microporous and Mesoporous Materials, 2018, 258, 151-169.	2.2	17
13	Investigating the non-idealities in adsorption of CO2-bearing mixtures in cation-exchanged zeolites. Separation and Purification Technology, 2018, 206, 208-217.	3.9	34
14	Screening metalâ€“organic frameworks for separation of pentane isomers. Physical Chemistry Chemical Physics, 2017, 19, 8380-8387.	1.3	15
15	Highlighting diffusional coupling effects in zeolite catalyzed reactions by combining the Maxwellâ€“Stefan and Langmuirâ€“Hinshelwood formulations. Reaction Chemistry and Engineering, 2017, 2, 324-336.	1.9	12
16	Commensurateâ€“incommensurate adsorption and diffusion in ordered crystalline microporous materials. Physical Chemistry Chemical Physics, 2017, 19, 20320-20337.	1.3	16
17	Taylor-Made Modeling and Solution of Novel Process Units by Modular CAPE-OPEN-based Flowsheeting. Computer Aided Chemical Engineering, 2016, , 787-792.	0.3	5
18	Describing diffusion in fluid mixtures at elevated pressures by combining the Maxwellâ€“Stefan formulation with an equation of state. Chemical Engineering Science, 2016, 153, 174-187.	1.9	29

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19	A molecular reconstruction feed characterization and CAPE OPEN implementation strategy to develop a tool for modeling HDT reactors for light petroleum cuts. Computer Aided Chemical Engineering, 2015, , 359-364.	0.3	4
20	CAPEâ€OPEN: Interoperability in Industrial Flowsheet Simulation Software. Chemie-Ingenieur-Technik, 2014, 86, 1052-1064.	0.4	23
21	Uncommon Synergy between Adsorption and Diffusion of Hexane Isomer Mixtures in MFI Zeolite Induced by Configurational Entropy Effects. Journal of Physical Chemistry C, 2014, 118, 2660-2665.	1.5	41
22	Separation of Hexane Isomers in a Metal-Organic Framework with Triangular Channels. Science, 2013, 340, 960-964.	6.0	589
23	Investigating the influence of diffusional coupling on mixture permeation across porous membranes. Journal of Membrane Science, 2013, 430, 113-128.	4.1	44
24	Influence of adsorption thermodynamics on guest diffusivities in nanoporous crystalline materials. Physical Chemistry Chemical Physics, 2013, 15, 7994.	1.3	70
25	Investigating the Relative Influences of Molecular Dimensions and Binding Energies on Diffusivities of Guest Species Inside Nanoporous Crystalline Materials. Journal of Physical Chemistry C, 2012, 116, 23556-23568.	1.5	63
26	Evaluating Process Sustainability Using Flowsheet Monitoring. Chemical Engineering and Technology, 2012, 35, 1405-1411.	0.9	2
27	Investigating the validity of the Bosanquet formula for estimation of diffusivities in mesopores. Chemical Engineering Science, 2012, 69, 684-688.	1.9	48
28	A comparison of the CO2 capture characteristics of zeolites and metalâ€“organic frameworks. Separation and Purification Technology, 2012, 87, 120-126.	3.9	147
29	Hindering effects in diffusion of CO2/CH4 mixtures in ZIF-8 crystals. Journal of Membrane Science, 2012, 397-398, 87-91.	4.1	59
30	In silico screening of metalâ€“organic frameworks in separation applications. Physical Chemistry Chemical Physics, 2011, 13, 10593.	1.3	300
31	Investigating the Validity of the Knudsen Prescription for Diffusivities in a Mesoporous Covalent Organic Framework. Industrial & Engineering Chemistry Research, 2011, 50, 7083-7087.	1.8	25
32	Maxwellâ€“Stefan modeling of slowing-down effects in mixed gas permeation across porous membranes. Journal of Membrane Science, 2011, 383, 289-300.	4.1	78
33	Implementation of the waste reduction (WAR) algorithm utilizing flowsheet monitoring. Computers and Chemical Engineering, 2011, 35, 2680-2686.	2.0	21
34	Corrigendum to â€œCFD simulations of mass transfer from Taylor bubbles rising in circular capillariesâ€• [Chem. Eng. Sci. 59 (2004) 2535â€“2545]. Chemical Engineering Science, 2011, 66, 4941.	1.9	1
35	Investigating the potential of MgMOF-74 membranes for CO2 capture. Journal of Membrane Science, 2011, 377, 249-260.	4.1	85
36	A molecular dynamics investigation of the diffusion characteristics of cavity-type zeolites with 8-ring windows. Microporous and Mesoporous Materials, 2011, 137, 83-91.	2.2	91

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37	A molecular dynamics investigation of the unusual concentration dependencies of Fick diffusivities in silica mesopores. Microporous and Mesoporous Materials, 2011, 138, 228-234.	2.2	24
38	Inâ€Depth Study of Mass Transfer in Nanoporous Materials by Microâ€Imaging. Chemie-Ingenieur-Technik, 2011, 83, 2211-2218.	0.4	10
39	A thermodynamic equilibrium reactor model as a CAPE-OPEN unit operation. Computers and Chemical Engineering, 2011, 35, 1251-1256.	2.0	10
40	A simplified procedure for estimation of mixture permeances from unary permeation data. Journal of Membrane Science, 2011, 367, 204-210.	4.1	13
41	A rationalization of the Type IV loading dependence in the KÃrgerâ€“Pfeifer classification of self-diffusivities. Microporous and Mesoporous Materials, 2011, 142, 745-748.	2.2	11
42	Influence of adsorption on the diffusion selectivity for mixture permeation across mesoporous membranes. Journal of Membrane Science, 2011, 369, 545-549.	4.1	31
43	Entropy-based separation of linear chain molecules by exploiting differences in the saturation capacities in cage-type zeolites. Separation and Purification Technology, 2011, 76, 325-330.	3.9	29
44	Comment on Comparative Molecular Simulation Study of CO₂/N₂ and CH₄/N₂ Separation in Zeolites and Metalâ^'Organic Frameworks. Langmuir, 2010, 26, 2975-2978.	1.6	39
45	Highlighting pitfalls in the Maxwellâ€“Stefan modeling of waterâ€“alcohol mixture permeation across pervaporation membranes. Journal of Membrane Science, 2010, 360, 476-482.	4.1	41
46	Novel MOFâ€Membrane for Molecular Sieving Predicted by IRâ€Diffusion Studies and Molecular Modeling. Advanced Materials, 2010, 22, 4741-4743.	11.1	222
47	In silico screening of zeolite membranes for CO2 capture. Journal of Membrane Science, 2010, 360, 323-333.	4.1	280
48	Methane storage mechanism in the metal-organic framework Cu3(btc)2: An in situ neutron diffraction study. Microporous and Mesoporous Materials, 2010, 136, 50-58.	2.2	132
49	Reactor simulation of benzene ethylation and ethane dehydrogenation catalyzed by ZSM-5: A multiscale approach. Chemical Engineering Science, 2010, 65, 2472-2480.	1.9	33
50	Hydrogen Bonding Effects in Adsorption of Waterâ^'Alcohol Mixtures in Zeolites and the Consequences for the Characteristics of the Maxwellâ^'Stefan Diffusivities. Langmuir, 2010, 26, 10854-10867.	1.6	127
51	Describing Mixture Diffusion in Microporous Materials under Conditions of Pore Saturation. Journal of Physical Chemistry C, 2010, 114, 11557-11563.	1.5	28
52	Highlighting a Variety of Unusual Characteristics of Adsorption and Diffusion in Microporous Materials Induced by Clustering of Guest Molecules. Langmuir, 2010, 26, 8450-8463.	1.6	55
53	Comment on â€œModeling Adsorption and Self-Diffusion of Methane in LTA Zeolites: The Influence of Framework Flexibilityâ€. Journal of Physical Chemistry C, 2010, 114, 18017-18021.	1.5	34
54	Mutual Slowing-Down Effects in Mixture Diffusion in Zeolites. Journal of Physical Chemistry C, 2010, 114, 13154-13156.	1.5	34

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55	Investigating Cluster Formation in Adsorption of CO₂, CH₄, and Ar in Zeolites and Metal Organic Frameworks at Subcritical Temperatures. Langmuir, 2010, 26, 3981-3992.	1.6	74
56	Thermosensitive gating effect and selective gas adsorption in a porous coordination nanocage. Chemical Communications, 2010, 46, 7352.	2.2	91
57	Assessing Guest Diffusivities in Porous Hosts from Transient Concentration Profiles. Physical Review Letters, 2009, 102, 065901.	2.9	76
58	Adsorption and diffusion of alkanes in CuBTC crystals investigated using infra-red microscopy and molecular simulations. Microporous and Mesoporous Materials, 2009, 117, 22-32.	2.2	135
59	A Molecular Dynamics investigation of the influence of framework flexibility on self-diffusivity of ethane in Zn(tbip) frameworks. Microporous and Mesoporous Materials, 2009, 125, 97-100.	2.2	46
60	Diffusion of n-butane/iso-butane mixtures in silicalite-1 investigated using infrared (IR) microscopy. Microporous and Mesoporous Materials, 2009, 125, 11-16.	2.2	30
61	A molecular dynamics investigation of a variety of influences of temperature on diffusion in zeolites. Microporous and Mesoporous Materials, 2009, 125, 126-134.	2.2	40
62	An investigation of the characteristics of Maxwellâ€“Stefan diffusivities of binary mixtures in silica nanopores. Chemical Engineering Science, 2009, 64, 870-882.	1.9	77
63	Unified Maxwellâ€“Stefan description of binary mixture diffusion in micro- and meso-porous materials. Chemical Engineering Science, 2009, 64, 3159-3178.	1.9	119
64	Analysis of Diffusion Limitation in the Alkylation of Benzene over H-ZSM-5 by Combining Quantum Chemical Calculations, Molecular Simulations, and a Continuum Approach. Journal of Physical Chemistry C, 2009, 113, 235-246.	1.5	78
65	A molecular simulation study of commensurateâ€“incommensurate adsorption ofn-alkanes in cobalt formate frameworks. Molecular Simulation, 2009, 35, 1098-1104.	0.9	22
66	Segregation effects in adsorption of CO2-containing mixtures and their consequences for separation selectivities in cage-type zeolites. Separation and Purification Technology, 2008, 61, 414-423.	3.9	129
67	Insights into diffusion of gases in zeolites gained from molecular dynamics simulations. Microporous and Mesoporous Materials, 2008, 109, 91-108.	2.2	164
68	Investigation of slowing-down and speeding-up effects in binary mixture permeation across SAPO-34 and MFI membranes. Separation and Purification Technology, 2008, 60, 230-236.	3.9	46
69	Separating n-alkane mixtures by exploiting differences in the adsorption capacity within cages of CHA, AFX and ERI zeolites. Separation and Purification Technology, 2008, 60, 315-320.	3.9	25
70	Inflection in the loading dependence of the Maxwellâ€“Stefan diffusivity of iso-butane in MFI zeolite. Chemical Physics Letters, 2008, 459, 141-145.	1.2	44
71	Diffusion of hydrocarbon mixtures in MFI zeolite: Influence of intersection blocking. Chemical Engineering Journal, 2008, 140, 614-620.	6.6	63
72	Onsager coefficients for binary mixture diffusion in nanopores. Chemical Engineering Science, 2008, 63, 3120-3140.	1.9	95

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73	1H NMR signal broadening in spectra of alkane molecules adsorbed on MFI-type zeolites. Solid State Nuclear Magnetic Resonance, 2008, 33, 65-71.	1.5	12
74	Diffusion of alkane mixtures in MFI zeolite. Microporous and Mesoporous Materials, 2008, 107, 296-298.	2.2	20
75	Shape-selective n-alkane hydroconversion at exterior zeolite surfaces. Journal of Catalysis, 2008, 256, 95-107.	3.1	31
76	Incorporating the Loading Dependence of the Maxwellâ^'Stefan Diffusivity in the Modeling of CH4and CO2Permeation Across Zeolite Membranes. Industrial & Engineering Chemistry Research, 2007, 46, 2974-2986.	1.8	63
77	Loading Dependence of Self-Diffusivities of Gases in Zeolites. Chemical Engineering and Technology, 2007, 30, 1235-1241.	0.9	20
78	Influence of segregated adsorption on mixture diffusion in DDR zeolite. Chemical Physics Letters, 2007, 446, 344-349.	1.2	77
79	Using molecular simulations for screening of zeolites for separation of CO2/CH4 mixtures. Chemical Engineering Journal, 2007, 133, 121-131.	6.6	186
80	Mixture diffusion in zeolites studied by MAS PFG NMR and molecular simulation. Microporous and Mesoporous Materials, 2007, 105, 124-131.	2.2	76
81	Screening of zeolite adsorbents for separation of hexane isomers: A molecular simulation study. Separation and Purification Technology, 2007, 55, 246-255.	3.9	52
82	A computational study of CO2, N2, and CH4 adsorption in zeolites. Adsorption, 2007, 13, 469-476.	1.4	159
83	Influence of Isotherm Inflection on the Loading Dependence of the Diffusivities ofn-Hexane andn-Heptane in MFI Zeolite. Quasi-Elastic Neutron Scattering Experiments Supplemented by Molecular Simulations. Journal of Physical Chemistry B, 2006, 110, 2195-2201.	1.2	51
84	Describing Binary Mixture Diffusion in Carbon Nanotubes with the Maxwellâ^'Stefan Equations. An Investigation Using Molecular Dynamics Simulations. Industrial & Engineering Chemistry Research, 2006, 45, 2084-2093.	1.8	67
85	Response to comments on â€œExploiting the Bjerknes force in bubble column reactorsâ€•by M.H.I. Baird. Chemical Engineering Science, 2006, 61, 6868.	1.9	0
86	Linking the loading dependence of the Maxwellâ€“Stefan diffusivity of linear alkanes in zeolites with the thermodynamic correction factor. Chemical Physics Letters, 2006, 420, 545-549.	1.2	33
87	Diffusion of CH4 and CO2 in MFI, CHA and DDR zeolites. Chemical Physics Letters, 2006, 429, 219-224.	1.2	69
88	MD Simulations of Diffusivities in Methanol-n-hexane Mixtures Near the Liquid-liquid Phase Splitting Region. Chemical Engineering and Technology, 2006, 29, 516-519.	0.9	12
89	Validating the Darken Relation for Diffusivities in Fluid Mixtures of Varying Densities by Use of MD Simulations. Chemical Engineering and Technology, 2006, 29, 761-765.	0.9	13
90	A Molecular Dynamic Investigation of the Diffusion of Methane-Ethane and Methane-Propane Mixtures in Zeolites. Chemical Engineering and Technology, 2006, 29, 1429-1437.	0.9	20

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91	Entropy effects in adsorption and diffusion of alkane isomers in mordenite: An investigation using CBMC and MD simulations. Microporous and Mesoporous Materials, 2005, 84, 179-191.	2.2	59
92	CFD simulations of wall mass transfer for Taylor flow in circular capillaries. Chemical Engineering Science, 2005, 60, 1117-1126.	1.9	116
93	Exploiting the Bjerknes force in bubble column reactors. Chemical Engineering Science, 2005, 60, 5962-5970.	1.9	21
94	Influence of isotherm inflection on the diffusivities of C5â€“C8 linear alkanes in MFI zeolite. Chemical Physics Letters, 2005, 407, 159-165.	1.2	32
95	Kinetic Monte Carlo Simulations of the Loading Dependence of Diffusion in Zeolites. Chemical Engineering and Technology, 2005, 28, 160-167.	0.9	25
96	Diffusion of Alkane Mixtures in Zeolites:â€‰ Validating the Maxwellâ€'Stefan Formulation Using MD Simulations. Journal of Physical Chemistry B, 2005, 109, 6386-6396.	1.2	129
97	The Darken Relation for Multicomponent Diffusion in Liquid Mixtures of Linear Alkanes:â€‰ An Investigation Using Molecular Dynamics (MD) Simulations. Industrial & Engineering Chemistry Research, 2005, 44, 6939-6947.	1.8	155
98	Scale Effects on the Hydrodynamics of Bubble Columns Operating in the Heterogeneous Flow Regime. Chemical Engineering Research and Design, 2004, 82, 1043-1053.	2.7	16
99	CFD Modeling of a Bubble Column Reactor Carrying out a Consecutive Aâ†' Bâ†' C Reaction. Chemical Engineering and Technology, 2004, 27, 398-406.	0.9	6
100	CFD Modeling of Bubble Column Reactor Including the Influence of Gas Contraction. Chemical Engineering and Technology, 2004, 27, 1302-1308.	0.9	8
101	CFD simulations of mass transfer from Taylor bubbles rising in circular capillaries. Chemical Engineering Science, 2004, 59, 2535-2545.	1.9	323
102	On the Inflection in the Concentration Dependence of the Maxwellâ€'Stefan Diffusivity of CF4 in MFI Zeolite. Journal of Physical Chemistry B, 2004, 108, 14820-14822.	1.2	26
103	Eulerian Simulation Strategy for Scaling up a Bubble Column Slurry Reactor for Fischerâ€'Tropsch Synthesis. Industrial & Engineering Chemistry Research, 2004, 43, 4483-4493.	1.8	27
104	A Strategy for Scaling Up the Fischerâ€“Tropsch Bubble Column Slurry Reactor. Topics in Catalysis, 2003, 26, 21-28.	1.3	16
105	Modelling Sieve Tray Hydraulics Using Computational Fluid Dynamics. Chemical Engineering Research and Design, 2003, 81, 27-38.	2.7	25
106	Comparison of Hydrodynamics and Mass Transfer in Airlift and Bubble Column Reactors Using CFD. Chemical Engineering and Technology, 2003, 26, 1074-1079.	0.9	19
107	Hydrodynamics of internal air-lift reactors: experiments versus CFD simulations. Chemical Engineering and Processing: Process Intensification, 2003, 42, 733-742.	1.8	74
108	Intensification of bubble columns by vibration excitement. Catalysis Today, 2003, 79-80, 181-188.	2.2	20

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109	Scale up studies on partitioned bubble column reactors with the aid of CFD simulations. Catalysis Today, 2003, 79-80, 219-227.	2.2	14
110	Scale-up strategy for bubble column slurry reactors using CFD simulations. Catalysis Today, 2003, 79-80, 259-265.	2.2	22
111	Mass transfer in bubble columns. Catalysis Today, 2003, 79-80, 67-75.	2.2	102
112	Using CFD to Describe the Hydrodynamics of Internal Airâ€lift Reactors. Canadian Journal of Chemical Engineering, 2003, 81, 660-668.	0.9	18
113	Scaling up Bubble Column Reactors with Highly Viscous Liquid Phase. Chemical Engineering and Technology, 2002, 25, 1015-1020.	0.9	15
114	CFD Simulations of a Bubble Column Operating in the Homogeneous and Heterogeneous Flow Regimes. Chemical Engineering and Technology, 2002, 25, 1081-1086.	0.9	13
115	Gas and liquid phase mass transfer within KATAPAK-SÂ® structures studied using CFD simulations. Chemical Engineering Science, 2002, 57, 1531-1536.	1.9	51
116	Hydrodynamics of reactive distillation tray column with catalyst containing envelopes: experiments vs. CFD simulations. Catalysis Today, 2001, 66, 233-240.	2.2	19
117	A scale up strategy for bubble column slurry reactors. Catalysis Today, 2001, 66, 199-207.	2.2	31
118	Simulating the Rise Characteristics of Gas Bubbles in Liquids Using CFD. Chemical Engineering and Technology, 2001, 24, 427-430.	0.9	5
119	Scale Effects on the Hydrodynamics of Bubble Columns Operating in the Homogeneous Flow Regime. Chemical Engineering and Technology, 2001, 24, 451.	0.9	35
120	Hydrodynamics of Distillation Tray Column with Structured Catalyst Containing Envelopes: Experiments versus CFD Simulations. Chemical Engineering and Technology, 2001, 24, 1077.	0.9	6
121	Scaling up Bubble Column Reactors with the Aid of CFD. Chemical Engineering Research and Design, 2001, 79, 283-309.	2.7	92
122	Liquid-phase mass transfer within KATAPAK-SÂ® structures studied using computational fluid dynamics simulations. Catalysis Today, 2001, 69, 371-377.	2.2	26
123	Using CFD for scaling up gasâ€“solid bubbling fluidised bed reactors with Geldart A powders. Chemical Engineering Journal, 2001, 82, 247-257.	6.6	52
124	Eulerian simulations for determination of the axial dispersion of liquid and gas phases in bubble columns operating in the churn-turbulent regime. Chemical Engineering Science, 2001, 56, 503-512.	1.9	53
125	Design and scale up of a bubble column slurry reactor for Fischerâ€“Tropsch synthesis. Chemical Engineering Science, 2001, 56, 537-545.	1.9	80
126	Radial and axial dispersion of the liquid phase within a KATAPAK-SÂ® structure: experiments vs. CFD simulations. Chemical Engineering Science, 2001, 56, 813-821.	1.9	60

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127	Eulerian simulations of bubble columns operating at elevated pressures in the churn turbulent flow regime. Chemical Engineering Science, 2001, 56, 6249-6258.	1.9	55
128	Modelling sieve tray hydraulics using computational fluid dynamics. Chemical Engineering Journal, 2000, 77, 143-151.	6.6	83
129	Liquid phase dispersion in bubble columns operating in the churn-turbulent flow regime. Chemical Engineering Journal, 2000, 78, 43-51.	6.6	59
130	Three-phase Eulerian simulations of bubble column reactors operating in the churn-turbulent regime: a scale up strategy. Chemical Engineering Science, 2000, 55, 3275-3286.	1.9	122
131	Rise velocity of single circular-cap bubbles in two-dimensional beds of powders and liquids. Chemical Engineering and Processing: Process Intensification, 2000, 39, 433-440.	1.8	22
132	Wall effects on the rise of single gas bubbles in liquids. International Communications in Heat and Mass Transfer, 1999, 26, 781-790.	2.9	96
133	Rise characteristics of gas bubbles in a 2D rectangular column: VOF simulations vs experiments. International Communications in Heat and Mass Transfer, 1999, 26, 965-974.	2.9	71
134	Influence of scale on the hydrodynamics of bubble columns operating in the churn-turbulent regime: experiments vs. Eulerian simulations. Chemical Engineering Science, 1999, 54, 4903-4911.	1.9	161
135	Simulating the motion of gas bubbles in a liquid. Nature, 1999, 398, 208-208.	13.7	66
136	Rise velocity of a swarm of large gas bubbles in liquids. Chemical Engineering Science, 1999, 54, 171-183.	1.9	142
137	CFD Simulations of Sieve Tray Hydrodynamics. Chemical Engineering Research and Design, 1999, 77, 639-646.	2.7	72
138	Scale effects in fluidized multiphase reactors. Powder Technology, 1998, 100, 137-146.	2.1	32