Sankaran Sundaresan

List of Publications by Year
in descending order

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167 papers	9,267 citations	28190 55 h-index	43802 91 g-index
169 all docs	169 docs citations	169 times ranked	3923 citing authors

#	Article	IF	Citations
1	Plasma-assisted catalysis for ammonia synthesis in a dielectric barrier discharge reactor: key surface reaction steps and potential causes of low energy yield. Journal Physics D: Applied Physics, 2022, 55, 055202.	1.3	10
2	In Situ Identification of NNH and N₂H₂ by Using Molecular-Beam Mass Spectrometry in Plasma-Assisted Catalysis for NH₃ Synthesis. ACS Energy Letters, 2022, 7, 53-58.	8.8	25
3	The effect of gas on tribocharging of particles in a vibrated bed. Powder Technology, 2022, 401, 117272.	2.1	7
4	Development of data-driven filtered drag model for industrial-scale fluidized beds. Chemical Engineering Science, 2021, 230, 116235.	1.9	35
5	Mid-Infrared Scattering in Î³-Al2O3 Catalytic Powders. Applied Spectroscopy, 2021, 75, 706-717.	1.2	0
6	Particle-based coarse-grained approach for simulating dry powder inhaler. International Journal of Pharmaceutics, 2021, 606, 120821.	2.6	9
7	Effects of dose loading conditions and device geometry on the transport and aerosolization in dry powder inhalers: A simulation study. International Journal of Pharmaceutics, 2021, 610, 121219.	2.6	6
8	Effect of particle size on tribocharging. Powder Technology, 2020, 375, 199-209.	2.1	13
9	Coarse graining Euler-Lagrange simulations of cohesive particle fluidization. Powder Technology, 2020, 364, 167-182.	2.1	40
10	On modelling shear layers in dense granular flows. Journal of Fluid Mechanics, 2020, 892, .	1.4	3
11	110th Anniversary: Effect of System Size on Boundary-Driven Contact Charging in Particulate Flows. Industrial & Engineering Chemistry Research, 2019, 58, 17980-17990.	1.8	5
12	Neural-network-based filtered drag model for gas-particle flows. Powder Technology, 2019, 346, 403-413.	2.1	74
13	Computationally generated constitutive models for particle phase rheology in gas-fluidized suspensions. Journal of Fluid Mechanics, 2019, 860, 318-349.	1.4	32
14	Introducing a variable speed of sound in single-component lattice Boltzmann simulations of isothermal fluid flows. Computers and Fluids, 2018, 167, 129-145.	1.3	5
15	Toward Constitutive Models for Momentum, Species, and Energy Transport in Gasâ€“Particle Flows. Annual Review of Chemical and Biomolecular Engineering, 2018, 9, 61-81.	3.3	125
16	Effects of Polarization on Particle-Laden Flows. Physical Review Letters, 2018, 121, 124503.	2.9	15
17	Experimental and numerical study of wall layer development in a tribocharged fluidized bed. Journal of Fluid Mechanics, 2018, 849, 860-884.	1.4	40
18	Eulerian modelling of gasâ€“solid flows with triboelectric charging. Journal of Fluid Mechanics, 2018, 848, 340-369.	1.4	25

#	Article	IF	Citations
19	Multiple timescale contact charging. Physical Review Materials, 2018, 2, .	0.9	5
20	Growth and breakup of a wet agglomerate in a dry gasâ€“solid fluidized bed. AICHE Journal, 2017, 63, 2520-2527.	1.8	29
21	Analysis of the effect of small amounts of liquid on gasâ€“solid fluidization using CFDâ€ÐEM simulations. AICHE Journal, 2017, 63, 5290-5302.	1.8	31
22	Forward osmosis using draw solutions manifesting liquid-liquid phase separation. Desalination, 2017, 421, 23-31.	4.0	16
23	Effective particle diameters for simulating fluidization of nonâ€spherical particles: CFDâ€ÐEM models vs. MRI measurements. AICHE Journal, 2017, 63, 2555-2568.	1.8	19
24	A tribute to professor Roy Jackson: Intellectual leader, scholar, mentor. AICHE Journal, 2017, 63, 5239-5249.	1.8	0
25	Effect of humidity on triboelectric charging in a vertically vibrated granular bed: Experiments and modeling. Chemical Engineering Science, 2017, 173, 363-373.	1.9	37
26	Dynamics of Tissue-Induced Alignment of Fibrous Extracellular Matrix. Biophysical Journal, 2017, 113, 702-713.	0.2	57
27	A Tribute to Roy Jackson. AICHE Journal, 2017, 63, 5238-5238.	1.8	0
28	Lattice Boltzmann simulations of low-Reynolds-number flows past fluidized spheres: effect of inhomogeneities on the dragÂforce. Journal of Fluid Mechanics, 2017, 833, 599-630.	1.4	48
29	Towards filtered drag force model for non-cohesive and cohesive particle-gas flows. Physics of Fluids, 2017, 29, .	1.6	67
30	Triboelectric charging of monodisperse particles in fluidized beds. AICHE Journal, 2017, 63, 1872-1891.	1.8	37
31	Numerical studies of the effects of fines on fluidization. AICHE Journal, 2016, 62, 2271-2281.	1.8	23
32	Lattice Boltzmann simulations of low-Reynolds-number flow past fluidized spheres: effect of Stokes number on drag force. Journal of Fluid Mechanics, 2016, 788, 576-601.	1.4	86
33	Sub-grid models for heat transfer in gas-particle flows with immersed horizontal cylinders. Chemical Engineering Science, 2016, 151, 7-15.	1.9	19
34	Rheology of granular materials with size distributions across dense-flow regimes. Powder Technology, 2016, 295, 322-329.	2.1	23
35	Filtered sub-grid constitutive models for fluidized gas-particle flows constructed from 3-D simulations. Chemical Engineering Science, 2016, 152, 443-456.	1.9	114
36	Intrusion of a Liquid Droplet into a Powder under Gravity. Langmuir, 2016, 32, 8631-8640.	1.6	13

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37	Fluid and particle coarsening of drag force for discrete-parcel approach. Chemical Engineering Science, 2016, 155, 258-267.	1.9	77
38	A hybrid approach to computing electrostatic forces in fluidized beds of charged particles. AICHE Journal, 2016, 62, 2282-2295.	1.8	44
39	Formation of cyclopentane methane binary clathrate hydrate in brine solutions. Chemical Engineering Science, 2016, 141, 125-132.	1.9	61
40	Simulating wet gasâ€“solid fluidized beds using coarse-grid CFD-DEM. Chemical Engineering Science, 2016, 144, 224-238.	1.9	59
41	A modified cohesion model for CFDâ€“DEM simulations of fluidization. Powder Technology, 2016, 296, 17-28.	2.1	82
42	Validation of filtered two-fluid models for gasâ€“particle flows against experimental data from bubbling fluidized bed. Powder Technology, 2015, 284, 159-169.	2.1	39
43	Sub-Grid Filtering Model for Multiphase Heat Transfer With Immersed Tubes. , 2014, , .		1
44	A drag model for filtered Eulerâ€“Lagrange simulations of clustered gasâ€“particle suspensions. Chemical Engineering Science, 2014, 117, 416-425.	1.9	160
45	Rheology of cohesive granular materials across multiple dense-flow regimes. Physical Review E, 2014, 90, 032206.	0.8	41
46	Verification of sub-grid filtered drag models for gas-particle fluidized beds with immersed cylinder arrays. Chemical Engineering Science, 2014, 114, 144-154.	1.9	32
47	Formation kinetics of cyclopentaneâ€“methane binary clathrate hydrate. Chemical Engineering Science, 2014, 119, 147-157.	1.9	37
48	Carbon Capture Simulation Initiative: A Case Study in Multiscale Modeling and New Challenges. Annual Review of Chemical and Biomolecular Engineering, 2014, 5, 301-323.	3.3	66
49	Filtered models for bidisperse gasâ€“particle flows. Chemical Engineering Science, 2014, 108, 67-86.	1.9	30
50	Radial hopper flow prediction using a constitutive model with microstructure evolution. Powder Technology, 2013, 242, 81-85.	2.1	14
51	Periodic flow structures in vertical gas-particle flows. Powder Technology, 2013, 241, 174-180.	2.1	1
52	Filtered twoâ€fluid models of fluidized gasâ€particle flows: New constitutive relations. AICHE Journal, 2013, 59, 3265-3275.	1.8	174
53	Lattice-Boltzmann-based two-phase thermal model for simulating phase change. Physical Review E, 2013, 88, 033302.	0.8	27
54	Filtered models for scalar transport in gasâ€“particle flows. Chemical Engineering Science, 2013, 95, 291-300.	1.9	65

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55	Role of hydrodynamics on chemical reactor performance. Current Opinion in Chemical Engineering, 2013, 2, 325-330.	3.8	16
56	Sub-grid drag models for horizontal cylinder arrays immersed in gas-particle multiphase flows. Chemical Engineering Science, 2013, 104, 399-412.	1.9	25
57	Dynamics of Single Rising Bubbles in Neutrally Buoyant Liquid-Solid Suspensions. Physical Review Letters, 2013, 110, 244501.	2.9	23
58	A modified kinetic theory for frictional granular flows in dense and dilute regimes. Physics of Fluids, 2013, 25, .	1.6	100
59	Bridging the rheology of granular flows in three regimes. Physical Review E, 2012, 85, 021305.	0.8	215
60	Effect of microstructural anisotropy on the fluidâ€“particle drag force and the stability of the uniformly fluidized state. Journal of Fluid Mechanics, 2012, 713, 27-49.	1.4	12
61	Filtered models for reacting gasâ€“particle flows. Chemical Engineering Science, 2012, 82, 132-143.	1.9	62
62	Validation Studies on Filtered Model Equations for Gas-Particle Flows in Risers. Industrial & Engineering Chemistry Research, 2012, 51, 2094-2103.	1.8	84
63	Experimental and computational studies of dense granular flow: Transition from quasi-static to intermediate regime in a Couette shear device. Powder Technology, 2012, 220, 7-14.	2.1	15
64	Do we need sub-grid scale corrections for both continuum and discrete gas-particle flow models?. Powder Technology, 2012, 220, 2-6.	2.1	74
65	Professor M. S. Ananth: Leading Researcher, Gifted Teacher, and Visionary Leader of Higher Education in India. Industrial & Engineering Chemistry Research, 2011, 50, 12845-12846.	1.8	1
66	Constitutive Models for Filtered Two-Fluid Models of Fluidized Gasâ€“Particle Flows. Industrial & Engineering Chemistry Research, 2011, 50, 13190-13201.	1.8	144
67	A lattice Boltzmann study on the drag force in bubble swarms. Journal of Fluid Mechanics, 2011, 679, 101-121.	1.4	16
68	A constitutive model with microstructure evolution for flow of rate-independent granular materials. Journal of Fluid Mechanics, 2011, 682, 590-616.	1.4	141
69	Meso-scale structures of bidisperse mixtures of particles fluidized by a gas. Chemical Engineering Science, 2011, 66, 4403-4420.	1.9	24
70	Nanoparticle mixing through rapid expansion of high pressure and supercritical suspensions. Journal of Nanoparticle Research, 2011, 13, 4253-4266.	0.8	20
71	Efficiency of hydrogen recovery from reformate with a polymer electrolyte hydrogen pump. AICHE Journal, 2011, 57, 1767-1779.	1.8	41
72	Verification of filtered twoâ€fluid models for gasâ€particle flows in risers. AICHE Journal, 2011, 57, 2691-2707.	1.8	106

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73	Contact line motion without slip in lattice Boltzmann simulations. Chemical Engineering Science, 2011, 66, 3452-3458.	1.9	11
74	Environmentally benign dry mechanical mixing of nano-particles using magnetically assisted impaction mixing process. Powder Technology, 2011, 209, 138-146.	2.1	12
75	Fluidâ€particle drag in inertial polydisperse gasâ€“solid suspensions. AICHE Journal, 2010, 56, 1995-2004.	1.8	28
76	Transmission of stresses in static and sheared granular beds: The influence of particle size, shearing rate, layer thickness and sensor size. Powder Technology, 2010, 203, 23-32.	2.1	10
77	A plasticity model with microstructure evolution for quasi-static granular flows. AIP Conference Proceedings, 2010, , .	0.3	4
78	Permeability in Fixed Beds of Spheres with Size Distributions and Stochastically Generated Porous Media Analogs. , 2010, , .		2
79	Unsteady Shear of Dense Assemblies of Cohesive Granular Materials under Constant Volume Conditions. Industrial & Engineering Chemistry Research, 2010, 49, 5153-5165.	1.8	6
80	Preface: 21st International Symposium on Chemical Reaction Engineering (ISCRE 21). Industrial & Engineering Chemistry Research, 2010, 49, 10153-10153.	1.8	2
81	Fluidâ€particle drag in lowâ€Reynoldsâ€number polydisperse gasâ€“solid suspensions. AICHE Journal, 2009, 55, 1352-1368.	1.8	108
82	Deagglomeration of nanoparticle aggregates via rapid expansion of supercritical or highâ€pressure suspensions. AICHE Journal, 2009, 55, 2807-2826.	1.8	53
83	Drag Law for Bidisperse Gasâ^'Solid Suspensions Containing Equally Sized Spheres. Industrial & Engineering Chemistry Research, 2009, 48, 227-241.	1.8	59
84	Twoâ€way coupled largeâ€eddy simulations of the gasâ€solid flow in cyclone separators. AICHE Journal, 2008, 54, 872-885.	1.8	96
85	Filtered twoâ€fluid models for fluidized gasâ€particle suspensions. AICHE Journal, 2008, 54, 1431-1448.	1.8	379
86	Shear flow of assemblies of cohesive granular materials under constant applied normal stress. Powder Technology, 2008, 183, 340-355.	2.1	9
87	Lattice Boltzmann Simulation of Two-Fluid Model Equations. Industrial & Engineering Chemistry Research, 2008, 47, 9165-9173.	1.8	18
88	Multifunctional Catalyst for Fischer-Tropsch Synthesis. ACS Symposium Series, 2007, , 75-85.	0.5	0
89	ExSact: Novel Solid-Acid Catalyzed Iso-Paraffin Alkylation Process. ACS Symposium Series, 2007, , 181-193.	0.5	0
90	Direct numerical simulations of dense suspensions: wave instabilities in liquid-fluidized beds. Journal of Fluid Mechanics, 2007, 587, 303-336.	1.4	99

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91	Particle Simulation of Vibrated Gas-Fluidized Beds of Cohesive Fine Powders. Industrial & Engineering Chemistry Research, 2006, 45, 6966-6977.	1.8	18
92	Analysis of unsteady forces in ordered arrays of monodisperse spheres. Journal of Fluid Mechanics, 2006, 552, 257.	1.4	15
93	Simulation of mass-loading effects in gasâ€“solid cyclone separators. Powder Technology, 2006, 163, 59-68.	2.1	115
94	Shear flow of assemblies of cohesive and non-cohesive granular materials. Powder Technology, 2006, 169, 10-21.	2.1	41
95	SIMULATION OF BUBBLE BREAKUP DYNAMICS IN HOMOGENEOUS TURBULENCE. Chemical Engineering Communications, 2006, 193, 1038-1063.	1.5	57
96	Coarse-Grid Simulation of Gas-Particle Flows in Vertical Risers. Industrial & Engineering Chemistry Research, 2005, 44, 6022-6037.	1.8	225
97	Silo music and silo quake: granular flow-induced vibration. Powder Technology, 2004, 145, 190-202.	2.1	56
98	Coarse bifurcation studies of bubble flow lattice Boltzmann simulations. Chemical Engineering Science, 2004, 59, 2357-2362.	1.9	28
99	Aerated vibrofluidization of silica nanoparticles. AICHE Journal, 2004, 50, 1776-1785.	1.8	179
100	Analysis of a frictionalâ€“kinetic model for gasâ€“particle flow. Powder Technology, 2003, 129, 72-85.	2.1	330
101	Electrical capacitance tomography measurements on vertical and inclined pneumatic conveying of granular solids. Chemical Engineering Science, 2003, 58, 4225-4245.	1.9	95
102	A comparative study of lattice Boltzmann and front-tracking finite-difference methods for bubble simulations. International Journal of Multiphase Flow, 2003, 29, 109-116.	1.6	58
103	Workshop Findings. International Journal of Multiphase Flow, 2003, 29, 1047-1059.	1.6	14
104	Appendix 2: Report of study group on disperse flow. International Journal of Multiphase Flow, 2003, 29, 1069-1087.	1.6	19
105	INSTABILITIES IN FLUIDIZED BEDS. Annual Review of Fluid Mechanics, 2003, 35, 63-88.	10.8	154
106	The Effect of Static Electrification on Gasâ^'Solid Flows in Vertical Risers. Industrial & Engineering Chemistry Research, 2002, 41, 6224-6234.	1.8	56
107	Analysis of drag and virtual mass forces in bubbly suspensions using an implicit formulation of the lattice Boltzmann method. Journal of Fluid Mechanics, 2002, 452, 61-96.	1.4	171
108	Role of wall friction in fluidization and standpipe flow. Powder Technology, 2002, 124, 45-54.	2.1	42

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109	Lift force in bubbly suspensions. Chemical Engineering Science, 2002, 57, 3521-3542.	1.9	75
110	The role of contact stresses and wall friction on fluidization. Chemical Engineering Science, 2002, 57, 5123-5141.	1.9	66
111	The role of meso-scale structures in rapid gasâ€“solid flows. Journal of Fluid Mechanics, 2001, 445, 151-185.	1.4	629
112	Electrical Capacitance Tomography Measurements on the Pneumatic Conveying of Solids. Industrial & Engineering Chemistry Research, 2001, 40, 4216-4226.	1.8	58
113	James Wei. Industrial & Engineering Chemistry Research, 2001, 40, 4155-4156.	1.8	0
114	Some outstanding questions in handling of cohesionless particles. Powder Technology, 2001, 115, 2-7.	2.1	46
115	Modeling the hydrodynamics of multiphase flow reactors: Current status and challenges. AICHE Journal, 2000, 46, 1102-1105.	1.8	198
116	Bubble flow simulations with the lattice Boltzmann method. Chemical Engineering Science, 1999, 54, 4817-4823.	1.9	58
117	Title is missing!. Catalysis Letters, 1999, 62, 87-91.	1.4	16
118	Roy Jackson. Industrial & Engineering Chemistry Research, 1999, 38, 575-575.	1.8	1
119	The effect of boundaries on the plane Couette flow of granular materials: a bifurcation analysis. Journal of Fluid Mechanics, 1999, 397, 203-229.	1.4	42
120	Gas-particle flow in vertical pipes with high mass loading of particles. Powder Technology, 1998, 96, 6-23.	2.1	36
121	Dynamics of gas-particle flow in circulating fluidized beds. Powder Technology, 1998, 100, 173-182.	2.1	40
122	From Bubbles to Clusters in Fluidized Beds. Physical Review Letters, 1998, 81, 1849-1852.	2.9	76
123	The growth, saturation, and scaling behaviour of one- and two-dimensional disturbances in fluidized beds. Journal of Fluid Mechanics, 1998, 362, 83-119.	1.4	13
124	Fully developed travelling wave solutions and bubble formation in fluidized beds. Journal of Fluid Mechanics, 1997, 334, 157-188.	1.4	60
125	Instabilities of fully developed rapid flow of a granular material in a channel. Journal of Fluid Mechanics, 1997, 342, 179-197.	1.4	31
126	Developing Flow of Gas-Particle Mixtures in Vertical Ducts. Industrial & Engineering Chemistry Research, 1997, 36, 3375-3390.	1.8	8

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127	Rebuttal to the Comments of Lyle F. Albright on â€œKinetic Analysis of Isobutane/Butene Alkylations over Ultrastable Hâ^'Y Zeoliteâ€• Industrial & Engineering Chemistry Research, 1997, 36, 2517-2520.	1.8	2
128	Metastability of Spinel-type Solid Solutions in the SiO2â^'Al2O3System. Chemistry of Materials, 1997, 9, 3096-3100.	3.2	23
129	New precursors to vanadium phosphorus oxide catalysts. Catalysis Today, 1997, 33, 49-56.	2.2	35
130	Fundamental Studies of Butane Oxidation over Model-Supported Vanadium Oxide Catalysts: Molecular Structure-Reactivity Relationships. Journal of Catalysis, 1997, 170, 75-88.	3.1	132
131	Stability of bounded rapid shear flows of a granular material. Journal of Fluid Mechanics, 1996, 308, 31-62.	1.4	55
132	One- and two-dimensional travelling wave solutions in gas-fluidized beds. Journal of Fluid Mechanics, 1996, 306, 183-221.	1.4	71
133	Kinetics of Zeolitic Solid Acid-Catalyzed Alkylation of Isobutane with 2-Butene. ACS Symposium Series, 1996, , 105-115.	0.5	6
134	Kinetic Analysis of Isobutane/Butene Alkylation over Ultrastable Hâ^'Y Zeolite. Industrial & Engineering Chemistry Research, 1996, 35, 3861-3873.	1.8	86
135	The oxidation of C4 molecules on vanadyl pyrophosphate catalysts. Studies in Surface Science and Catalysis, 1996, 101, 991-1000.	1.5	9
136	The effect of the phase composition of model VPO catalysts for partial oxidation of n-butane. Catalysis Today, 1996, 28, 275-295.	2.2	169
137	A two-phase release model for quantifying risk reduction for modified HF alkylation catalysts. Journal of Hazardous Materials, 1995, 44, 141-183.	6.5	6
138	New Layered Vanadyl(IV) Phosphite as a Precursor to Vanadyl Pyrophosphate Catalysts for Partial Oxidation of n-Butane to Maleic Anhydride. Journal of Catalysis, 1995, 156, 298-300.	3.1	9
139	Evolution of the active surface of the vanadyl pyrophosphate catalysts. Catalysis Letters, 1995, 32, 379-386.	1.4	84
140	Synthesis and Characterization of Vanadyl Phosphite, VIVOHPIIIO3.cntdot.1.5H2O. Chemistry of Materials, 1995, 7, 1485-1492.	3.2	26
141	Vanadyl(IV) Phosphonates, VOCnH2n+1PO3.cntdot.xH2O (n = 0-4, x = 1 or 1.5), as Precursors of Vanadyl(IV) Pyrophosphate, (VO)2P2O7. Chemistry of Materials, 1995, 7, 1493-1498.	3.2	29
142	Instabilities and the formation of bubbles in fluidized beds. Journal of Fluid Mechanics, 1995, 303, 327-366.	1.4	124
143	Multiphase Flow and Fluidization. By D. GIDASPOW. Academic Press, 1994. 467 pp. ISBN 0-12-282470-9.. Journal of Fluid Mechanics, 1995, 287, 405-407.	1.4	0
144	Turbulent gas-particle flow in vertical risers. AICHE Journal, 1994, 40, 215-228.	1.8	127

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145	Liquid Distribution in Trickle Bed Reactors. Energy & Fuels, 1994, 8, 531-535.	2.5	10
146	Structural Investigation and Energetics of Mullite Formation from Sol-Gel Precursors. Chemistry of Materials, 1994, 6, 160-170.	3.2	103
147	Intercalation of Aliphatic Amines into the Layered Structure of Vanadyl(IV) Hydrogen Phosphate Hemihydrate (VOHPO4.cntdot.0.5H2O). Chemistry of Materials, 1994, 6, 353-356.	3.2	28
148	Developing flow of a gas-particle mixture in a vertical riser. AICHE Journal, 1993, 39, 541-552.	1.8	75
149	Gas-Particle flow in a duct of arbitrary inclination with particle-particle interactions. AICHE Journal, 1993, 39, 1261-1271.	1.8	98
150	Infinite-wavelength analysis for two-phase flow: A three-parameter computer-assisted study of global bifurcations. Physica D: Nonlinear Phenomena, 1992, 55, 197-220.	1.3	2
151	Time-dependent vertical gasâ€"liquid flow in packed beds. Chemical Engineering Science, 1992, 47, 337-346.	1.9	11
152	Stability of periodic travelling waves in trickle beds. Chemical Engineering Science, 1992, 47, 3257-3264.	1.9	3
153	Mullitization of Diphasic Aluminosilicate Gels. Journal of the American Ceramic Society, 1991, 74, 2388-2392.	1.9	123
154	Gas-solid flow in vertical tubes. AICHE Journal, 1991, 37, 1009-1018.	1.8	123
155	Effect of boundaries on trickle-bed hydrodynamics. AICHE Journal, 1991, 37, 1237-1241.	1.8	17
156	Sintering with Rigid Inclusions: Pair Interactions. Journal of the American Ceramic Society, 1990, 73, 54-60.	1.9	31
157	Dynamics of pulsing flow in trickle beds. AICHE Journal, 1990, 36, 605-621.	1.8	93
158	Time dependent hydrodynamics in multiphase reactors. Chemical Engineering Science, 1990, 45, 2239-2246.	1.9	6
159	Dynamics of packed-bed reactors loaded with oxide catalysts. AICHE Journal, 1989, 35, 746-754.	1.8	15
160	A macroscopic model for countercurrent gas-liquid flow in packed columns. AICHE Journal, 1989, 35, 1282-1292.	1.8	20
161	Oxygen transfer between rhodium and an oxygen-ion conducting support. AICHE Journal, 1988, 34, 1048-1050.	1.8	5
162	Disproportionation of toluene over ZSMâ€“5 under near-critical conditions. AICHE Journal, 1988, 34, 1211-1214.	1.8	47

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163	Onset of pulsing in two-phase cocurrent downflow through a packed bed. AICHE Journal, 1988, 34, 1850-1860.	1.8	141
164	Effect of water vapor on the activity and selectivity characteristics of a vanadium phosphate catalyst towards butane oxidation. Applied Catalysis, 1988, 41, 225-239.	1.1	46
165	OPTIMAL DISTRIBUTION OF MULTIFUNCTIONAL CATALYSTS IN A PACKED BED REACTOR. Chemical Engineering Communications, 1986, 40, 25-39.	1.5	5
166	NON-RANDOM DISTRIBUTION OF ADSORBATES ON CATALYTIC SURFACES: THE ROLE OF ADSORBATE MOBILITIES ON REACTION RATES. Chemical Engineering Communications, 1985, 35, 1-22.	1.5	16
167	NON-RANDOM DISTRIBUTION OF ADSORBATES ON CATALYTIC SURFACES: THE ROLE OF INTERACTIONS BETWEEN ADSORBATES. Chemical Engineering Communications, 1985, 32, 333-355.	1.5	11