

Sankaran Sundaresan

List of Publications by Year in descending order

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167
papers

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28274

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times ranked

3923
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#	ARTICLE	IF	CITATIONS
1	The role of meso-scale structures in rapid gas–solid flows. <i>Journal of Fluid Mechanics</i> , 2001, 445, 151-185.	3.4	629
2	Filtered two–fluid models for fluidized gas–particle suspensions. <i>AIChE Journal</i> , 2008, 54, 1431-1448.	3.6	379
3	Analysis of a frictional–kinetic model for gas–particle flow. <i>Powder Technology</i> , 2003, 129, 72-85.	4.2	330
4	Coarse-Grid Simulation of Gas-Particle Flows in Vertical Risers. <i>Industrial & Engineering Chemistry Research</i> , 2005, 44, 6022-6037.	3.7	225
5	Bridging the rheology of granular flows in three regimes. <i>Physical Review E</i> , 2012, 85, 021305.	2.1	215
6	Modeling the hydrodynamics of multiphase flow reactors: Current status and challenges. <i>AIChE Journal</i> , 2000, 46, 1102-1105.	3.6	198
7	Aerated vibrofluidization of silica nanoparticles. <i>AIChE Journal</i> , 2004, 50, 1776-1785.	3.6	179
8	Filtered two–fluid models of fluidized gas–particle flows: New constitutive relations. <i>AIChE Journal</i> , 2013, 59, 3265-3275.	3.6	174
9	Analysis of drag and virtual mass forces in bubbly suspensions using an implicit formulation of the lattice Boltzmann method. <i>Journal of Fluid Mechanics</i> , 2002, 452, 61-96.	3.4	171
10	The effect of the phase composition of model VPO catalysts for partial oxidation of n-butane. <i>Catalysis Today</i> , 1996, 28, 275-295.	4.4	169
11	A drag model for filtered Euler–Lagrange simulations of clustered gas–particle suspensions. <i>Chemical Engineering Science</i> , 2014, 117, 416-425.	3.8	160
12	INSTABILITIES IN FLUIDIZED BEDS. <i>Annual Review of Fluid Mechanics</i> , 2003, 35, 63-88.	25.0	154
13	Constitutive Models for Filtered Two-Fluid Models of Fluidized Gas–Particle Flows. <i>Industrial & Engineering Chemistry Research</i> , 2011, 50, 13190-13201.	3.7	144
14	Onset of pulsing in two-phase cocurrent downflow through a packed bed. <i>AIChE Journal</i> , 1988, 34, 1850-1860.	3.6	141
15	A constitutive model with microstructure evolution for flow of rate-independent granular materials. <i>Journal of Fluid Mechanics</i> , 2011, 682, 590-616.	3.4	141
16	Fundamental Studies of Butane Oxidation over Model-Supported Vanadium Oxide Catalysts: Molecular Structure-Reactivity Relationships. <i>Journal of Catalysis</i> , 1997, 170, 75-88.	6.2	132
17	Turbulent gas-particle flow in vertical risers. <i>AIChE Journal</i> , 1994, 40, 215-228.	3.6	127
18	Toward Constitutive Models for Momentum, Species, and Energy Transport in Gas–Particle Flows. <i>Annual Review of Chemical and Biomolecular Engineering</i> , 2018, 9, 61-81.	6.8	125

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19	Instabilities and the formation of bubbles in fluidized beds. <i>Journal of Fluid Mechanics</i> , 1995, 303, 327-366.	3.4	124
20	Mullitization of Diphasic Aluminosilicate Gels. <i>Journal of the American Ceramic Society</i> , 1991, 74, 2388-2392.	3.8	123
21	Gas-solid flow in vertical tubes. <i>AIChE Journal</i> , 1991, 37, 1009-1018.	3.6	123
22	Simulation of mass-loading effects in gas-solid cyclone separators. <i>Powder Technology</i> , 2006, 163, 59-68.	4.2	115
23	Filtered sub-grid constitutive models for fluidized gas-particle flows constructed from 3-D simulations. <i>Chemical Engineering Science</i> , 2016, 152, 443-456.	3.8	114
24	Fluid-particle drag in low-Reynolds-number polydisperse gas-solid suspensions. <i>AIChE Journal</i> , 2009, 55, 1352-1368.	3.6	108
25	Verification of filtered two-fluid models for gas-particle flows in risers. <i>AIChE Journal</i> , 2011, 57, 2691-2707.	3.6	106
26	Structural Investigation and Energetics of Mullite Formation from Sol-Gel Precursors. <i>Chemistry of Materials</i> , 1994, 6, 160-170.	6.7	103
27	A modified kinetic theory for frictional granular flows in dense and dilute regimes. <i>Physics of Fluids</i> , 2013, 25, .	4.0	100
28	Direct numerical simulations of dense suspensions: wave instabilities in liquid-fluidized beds. <i>Journal of Fluid Mechanics</i> , 2007, 587, 303-336.	3.4	99
29	Gas-Particle flow in a duct of arbitrary inclination with particle-particle interactions. <i>AIChE Journal</i> , 1993, 39, 1261-1271.	3.6	98
30	Two-way coupled large-eddy simulations of the gas-solid flow in cyclone separators. <i>AIChE Journal</i> , 2008, 54, 872-885.	3.6	96
31	Electrical capacitance tomography measurements on vertical and inclined pneumatic conveying of granular solids. <i>Chemical Engineering Science</i> , 2003, 58, 4225-4245.	3.8	95
32	Dynamics of pulsing flow in trickle beds. <i>AIChE Journal</i> , 1990, 36, 605-621.	3.6	93
33	Kinetic Analysis of Isobutane/Butene Alkylation over Ultrastable H ⁺ Zeolite. <i>Industrial & Engineering Chemistry Research</i> , 1996, 35, 3861-3873.	3.7	86
34	Lattice Boltzmann simulations of low-Reynolds-number flow past fluidized spheres: effect of Stokes number on drag force. <i>Journal of Fluid Mechanics</i> , 2016, 788, 576-601.	3.4	86
35	Evolution of the active surface of the vanadyl pyrophosphate catalysts. <i>Catalysis Letters</i> , 1995, 32, 379-386.	2.6	84
36	Validation Studies on Filtered Model Equations for Gas-Particle Flows in Risers. <i>Industrial & Engineering Chemistry Research</i> , 2012, 51, 2094-2103.	3.7	84

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37	A modified cohesion model for CFD-DEM simulations of fluidization. Powder Technology, 2016, 296, 17-28.	4.2	82
38	Fluid and particle coarsening of drag force for discrete-parcel approach. Chemical Engineering Science, 2016, 155, 258-267.	3.8	77
39	From Bubbles to Clusters in Fluidized Beds. Physical Review Letters, 1998, 81, 1849-1852.	7.8	76
40	Developing flow of a gas-particle mixture in a vertical riser. AIChE Journal, 1993, 39, 541-552.	3.6	75
41	Lift force in bubbly suspensions. Chemical Engineering Science, 2002, 57, 3521-3542.	3.8	75
42	Do we need sub-grid scale corrections for both continuum and discrete gas-particle flow models?. Powder Technology, 2012, 220, 2-6.	4.2	74
43	Neural-network-based filtered drag model for gas-particle flows. Powder Technology, 2019, 346, 403-413.	4.2	74
44	One- and two-dimensional travelling wave solutions in gas-fluidized beds. Journal of Fluid Mechanics, 1996, 306, 183-221.	3.4	71
45	Towards filtered drag force model for non-cohesive and cohesive particle-gas flows. Physics of Fluids, 2017, 29, .	4.0	67
46	The role of contact stresses and wall friction on fluidization. Chemical Engineering Science, 2002, 57, 5123-5141.	3.8	66
47	Carbon Capture Simulation Initiative: A Case Study in Multiscale Modeling and New Challenges. Annual Review of Chemical and Biomolecular Engineering, 2014, 5, 301-323.	6.8	66
48	Filtered models for scalar transport in gas-particle flows. Chemical Engineering Science, 2013, 95, 291-300.	3.8	65
49	Filtered models for reacting gas-particle flows. Chemical Engineering Science, 2012, 82, 132-143.	3.8	62
50	Formation of cyclopentane methane binary clathrate hydrate in brine solutions. Chemical Engineering Science, 2016, 141, 125-132.	3.8	61
51	Fully developed travelling wave solutions and bubble formation in fluidized beds. Journal of Fluid Mechanics, 1997, 334, 157-188.	3.4	60
52	Drag Law for Bidisperse Gas-Solid Suspensions Containing Equally Sized Spheres. Industrial & Engineering Chemistry Research, 2009, 48, 227-241.	3.7	59
53	Simulating wet gas-solid fluidized beds using coarse-grid CFD-DEM. Chemical Engineering Science, 2016, 144, 224-238.	3.8	59
54	Bubble flow simulations with the lattice Boltzmann method. Chemical Engineering Science, 1999, 54, 4817-4823.	3.8	58

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55	Electrical Capacitance Tomography Measurements on the Pneumatic Conveying of Solids. <i>Industrial & Engineering Chemistry Research</i> , 2001, 40, 4216-4226.	3.7	58
56	A comparative study of lattice Boltzmann and front-tracking finite-difference methods for bubble simulations. <i>International Journal of Multiphase Flow</i> , 2003, 29, 109-116.	3.4	58
57	SIMULATION OF BUBBLE BREAKUP DYNAMICS IN HOMOGENEOUS TURBULENCE. <i>Chemical Engineering Communications</i> , 2006, 193, 1038-1063.	2.6	57
58	Dynamics of Tissue-Induced Alignment of Fibrous Extracellular Matrix. <i>Biophysical Journal</i> , 2017, 113, 702-713.	0.5	57
59	The Effect of Static Electrification on Gas-Solid Flows in Vertical Risers. <i>Industrial & Engineering Chemistry Research</i> , 2002, 41, 6224-6234.	3.7	56
60	Silo music and silo quake: granular flow-induced vibration. <i>Powder Technology</i> , 2004, 145, 190-202.	4.2	56
61	Stability of bounded rapid shear flows of a granular material. <i>Journal of Fluid Mechanics</i> , 1996, 308, 31-62.	3.4	55
62	Deagglomeration of nanoparticle aggregates via rapid expansion of supercritical or high-pressure suspensions. <i>AIChE Journal</i> , 2009, 55, 2807-2826.	3.6	53
63	Lattice Boltzmann simulations of low-Reynolds-number flows past fluidized spheres: effect of inhomogeneities on the drag force. <i>Journal of Fluid Mechanics</i> , 2017, 833, 599-630.	3.4	48
64	Disproportionation of toluene over ZSM-5 under near-critical conditions. <i>AIChE Journal</i> , 1988, 34, 1211-1214.	3.6	47
65	Effect of water vapor on the activity and selectivity characteristics of a vanadium phosphate catalyst towards butane oxidation. <i>Applied Catalysis</i> , 1988, 41, 225-239.	0.8	46
66	Some outstanding questions in handling of cohesionless particles. <i>Powder Technology</i> , 2001, 115, 2-7.	4.2	46
67	A hybrid approach to computing electrostatic forces in fluidized beds of charged particles. <i>AIChE Journal</i> , 2016, 62, 2282-2295.	3.6	44
68	The effect of boundaries on the plane Couette flow of granular materials: a bifurcation analysis. <i>Journal of Fluid Mechanics</i> , 1999, 397, 203-229.	3.4	42
69	Role of wall friction in fluidization and standpipe flow. <i>Powder Technology</i> , 2002, 124, 45-54.	4.2	42
70	Shear flow of assemblies of cohesive and non-cohesive granular materials. <i>Powder Technology</i> , 2006, 169, 10-21.	4.2	41
71	Efficiency of hydrogen recovery from reformat with a polymer electrolyte hydrogen pump. <i>AIChE Journal</i> , 2011, 57, 1767-1779.	3.6	41
72	Rheology of cohesive granular materials across multiple dense-flow regimes. <i>Physical Review E</i> , 2014, 90, 032206.	2.1	41

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73	Dynamics of gas-particle flow in circulating fluidized beds. Powder Technology, 1998, 100, 173-182.	4.2	40
74	Experimental and numerical study of wall layer development in a tribocharged fluidized bed. Journal of Fluid Mechanics, 2018, 849, 860-884.	3.4	40
75	Coarse graining Euler-Lagrange simulations of cohesive particle fluidization. Powder Technology, 2020, 364, 167-182.	4.2	40
76	Validation of filtered two-fluid models for gas-particle flows against experimental data from bubbling fluidized bed. Powder Technology, 2015, 284, 159-169.	4.2	39
77	Formation kinetics of cyclopentane-methane binary clathrate hydrate. Chemical Engineering Science, 2014, 119, 147-157.	3.8	37
78	Effect of humidity on triboelectric charging in a vertically vibrated granular bed: Experiments and modeling. Chemical Engineering Science, 2017, 173, 363-373.	3.8	37
79	Triboelectric charging of monodisperse particles in fluidized beds. AIChE Journal, 2017, 63, 1872-1891.	3.6	37
80	Gas-particle flow in vertical pipes with high mass loading of particles. Powder Technology, 1998, 96, 6-23.	4.2	36
81	New precursors to vanadium phosphorus oxide catalysts. Catalysis Today, 1997, 33, 49-56.	4.4	35
82	Development of data-driven filtered drag model for industrial-scale fluidized beds. Chemical Engineering Science, 2021, 230, 116235.	3.8	35
83	Verification of sub-grid filtered drag models for gas-particle fluidized beds with immersed cylinder arrays. Chemical Engineering Science, 2014, 114, 144-154.	3.8	32
84	Computationally generated constitutive models for particle phase rheology in gas-fluidized suspensions. Journal of Fluid Mechanics, 2019, 860, 318-349.	3.4	32
85	Sintering with Rigid Inclusions: Pair Interactions. Journal of the American Ceramic Society, 1990, 73, 54-60.	3.8	31
86	Instabilities of fully developed rapid flow of a granular material in a channel. Journal of Fluid Mechanics, 1997, 342, 179-197.	3.4	31
87	Analysis of the effect of small amounts of liquid on gas-solid fluidization using CFD-DEM simulations. AIChE Journal, 2017, 63, 5290-5302.	3.6	31
88	Filtered models for bidisperse gas-particle flows. Chemical Engineering Science, 2014, 108, 67-86.	3.8	30
89	Vanadyl(IV) Phosphonates, $\text{VO}_n\text{H}_{2n+1}\text{PO}_3 \cdot x\text{H}_2\text{O}$ ($n = 0-4$, $x = 1$ or 1.5), as Precursors of Vanadyl(IV) Pyrophosphate, $(\text{VO})_2\text{P}_2\text{O}_7$. Chemistry of Materials, 1995, 7, 1493-1498.	6.7	29
90	Growth and breakup of a wet agglomerate in a dry gas-solid fluidized bed. AIChE Journal, 2017, 63, 2520-2527.	3.6	29

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91	Intercalation of Aliphatic Amines into the Layered Structure of Vanadyl(IV) Hydrogen Phosphate Hemihydrate (VOHPO ₄ .0.5H ₂ O). Chemistry of Materials, 1994, 6, 353-356.	6.7	28
92	Coarse bifurcation studies of bubble flow lattice Boltzmann simulations. Chemical Engineering Science, 2004, 59, 2357-2362.	3.8	28
93	Fluid-particle drag in inertial polydisperse gas-solid suspensions. AIChE Journal, 2010, 56, 1995-2004.	3.6	28
94	Lattice-Boltzmann-based two-phase thermal model for simulating phase change. Physical Review E, 2013, 88, 033302.	2.1	27
95	Synthesis and Characterization of Vanadyl Phosphite, VVOHPH ₃ O ₃ .1.5H ₂ O. Chemistry of Materials, 1995, 7, 1485-1492.	6.7	26
96	Sub-grid drag models for horizontal cylinder arrays immersed in gas-particle multiphase flows. Chemical Engineering Science, 2013, 104, 399-412.	3.8	25
97	Eulerian modelling of gas-solid flows with triboelectric charging. Journal of Fluid Mechanics, 2018, 848, 340-369.	3.4	25
98	<i>In Situ</i> Identification of NNH and N ₂ H ₂ by Using Molecular-Beam Mass Spectrometry in Plasma-Assisted Catalysis for NH ₃ Synthesis. ACS Energy Letters, 2022, 7, 53-58.	17.4	25
99	Meso-scale structures of bidisperse mixtures of particles fluidized by a gas. Chemical Engineering Science, 2011, 66, 4403-4420.	3.8	24
100	Metastability of Spinel-type Solid Solutions in the SiO ₂ -Al ₂ O ₃ System. Chemistry of Materials, 1997, 9, 3096-3100.	6.7	23
101	Dynamics of Single Rising Bubbles in Neutrally Buoyant Liquid-Solid Suspensions. Physical Review Letters, 2013, 110, 244501.	7.8	23
102	Numerical studies of the effects of fines on fluidization. AIChE Journal, 2016, 62, 2271-2281.	3.6	23
103	Rheology of granular materials with size distributions across dense-flow regimes. Powder Technology, 2016, 295, 322-329.	4.2	23
104	A macroscopic model for countercurrent gas-liquid flow in packed columns. AIChE Journal, 1989, 35, 1282-1292.	3.6	20
105	Nanoparticle mixing through rapid expansion of high pressure and supercritical suspensions. Journal of Nanoparticle Research, 2011, 13, 4253-4266.	1.9	20
106	Appendix 2: Report of study group on disperse flow. International Journal of Multiphase Flow, 2003, 29, 1069-1087.	3.4	19
107	Sub-grid models for heat transfer in gas-particle flows with immersed horizontal cylinders. Chemical Engineering Science, 2016, 151, 7-15.	3.8	19
108	Effective particle diameters for simulating fluidization of non-spherical particles: CFD-DEM models vs. MRI measurements. AIChE Journal, 2017, 63, 2555-2568.	3.6	19

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109	Particle Simulation of Vibrated Gas-Fluidized Beds of Cohesive Fine Powders. Industrial & Engineering Chemistry Research, 2006, 45, 6966-6977.	3.7	18
110	Lattice Boltzmann Simulation of Two-Fluid Model Equations. Industrial & Engineering Chemistry Research, 2008, 47, 9165-9173.	3.7	18
111	Effect of boundaries on trickle-bed hydrodynamics. AIChE Journal, 1991, 37, 1237-1241.	3.6	17
112	NON-RANDOM DISTRIBUTION OF ADSORBATES ON CATALYTIC SURFACES: THE ROLE OF ADSORBATE MOBILITIES ON REACTION RATES. Chemical Engineering Communications, 1985, 35, 1-22.	2.6	16
113	Title is missing!. Catalysis Letters, 1999, 62, 87-91.	2.6	16
114	A lattice Boltzmann study on the drag force in bubble swarms. Journal of Fluid Mechanics, 2011, 679, 101-121.	3.4	16
115	Role of hydrodynamics on chemical reactor performance. Current Opinion in Chemical Engineering, 2013, 2, 325-330.	7.8	16
116	Forward osmosis using draw solutions manifesting liquid-liquid phase separation. Desalination, 2017, 421, 23-31.	8.2	16
117	Dynamics of packed-bed reactors loaded with oxide catalysts. AIChE Journal, 1989, 35, 746-754.	3.6	15
118	Analysis of unsteady forces in ordered arrays of monodisperse spheres. Journal of Fluid Mechanics, 2006, 552, 257.	3.4	15
119	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.	4.2	15
120	Effects of Polarization on Particle-Laden Flows. Physical Review Letters, 2018, 121, 124503.	7.8	15
121	Workshop Findings. International Journal of Multiphase Flow, 2003, 29, 1047-1059.	3.4	14
122	Radial hopper flow prediction using a constitutive model with microstructure evolution. Powder Technology, 2013, 242, 81-85.	4.2	14
123	The growth, saturation, and scaling behaviour of one- and two-dimensional disturbances in fluidized beds. Journal of Fluid Mechanics, 1998, 362, 83-119.	3.4	13
124	Intrusion of a Liquid Droplet into a Powder under Gravity. Langmuir, 2016, 32, 8631-8640.	3.5	13
125	Effect of particle size on tribocharging. Powder Technology, 2020, 375, 199-209.	4.2	13
126	Environmentally benign dry mechanical mixing of nano-particles using magnetically assisted impactation mixing process. Powder Technology, 2011, 209, 138-146.	4.2	12

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127	Effect of microstructural anisotropy on the fluidâ€“particle drag force and the stability of the uniformly fluidized state. <i>Journal of Fluid Mechanics</i> , 2012, 713, 27-49.	3.4	12
128	NON-RANDOM DISTRIBUTION OF ADSORBATES ON CATALYTIC SURFACES: THE ROLE OF INTERACTIONS BETWEEN ADSORBATES. <i>Chemical Engineering Communications</i> , 1985, 32, 333-355.	2.6	11
129	Time-dependent vertical gasâ€“liquid flow in packed beds. <i>Chemical Engineering Science</i> , 1992, 47, 337-346.	3.8	11
130	Contact line motion without slip in lattice Boltzmann simulations. <i>Chemical Engineering Science</i> , 2011, 66, 3452-3458.	3.8	11
131	Liquid Distribution in Trickle Bed Reactors. <i>Energy & Fuels</i> , 1994, 8, 531-535.	5.1	10
132	Transmission of stresses in static and sheared granular beds: The influence of particle size, shearing rate, layer thickness and sensor size. <i>Powder Technology</i> , 2010, 203, 23-32.	4.2	10
133	Plasma-assisted catalysis for ammonia synthesis in a dielectric barrier discharge reactor: key surface reaction steps and potential causes of low energy yield. <i>Journal Physics D: Applied Physics</i> , 2022, 55, 055202.	2.8	10
134	New Layered Vanadyl(IV) Phosphite as a Precursor to Vanadyl Pyrophosphate Catalysts for Partial Oxidation of n-Butane to Maleic Anhydride. <i>Journal of Catalysis</i> , 1995, 156, 298-300.	6.2	9
135	The oxidation of C4 molecules on vanadyl pyrophosphate catalysts. <i>Studies in Surface Science and Catalysis</i> , 1996, 101, 991-1000.	1.5	9
136	Shear flow of assemblies of cohesive granular materials under constant applied normal stress. <i>Powder Technology</i> , 2008, 183, 340-355.	4.2	9
137	Particle-based coarse-grained approach for simulating dry powder inhaler. <i>International Journal of Pharmaceutics</i> , 2021, 606, 120821.	5.2	9
138	Developing Flow of Gas-Particle Mixtures in Vertical Ducts. <i>Industrial & Engineering Chemistry Research</i> , 1997, 36, 3375-3390.	3.7	8
139	The effect of gas on tribocharging of particles in a vibrated bed. <i>Powder Technology</i> , 2022, 401, 117272.	4.2	7
140	Time dependent hydrodynamics in multiphase reactors. <i>Chemical Engineering Science</i> , 1990, 45, 2239-2246.	3.8	6
141	A two-phase release model for quantifying risk reduction for modified HF alkylation catalysts. <i>Journal of Hazardous Materials</i> , 1995, 44, 141-183.	12.4	6
142	Kinetics of Zeolitic Solid Acid-Catalyzed Alkylation of Isobutane with 2-Butene. <i>ACS Symposium Series</i> , 1996, , 105-115.	0.5	6
143	Unsteady Shear of Dense Assemblies of Cohesive Granular Materials under Constant Volume Conditions. <i>Industrial & Engineering Chemistry Research</i> , 2010, 49, 5153-5165.	3.7	6
144	Effects of dose loading conditions and device geometry on the transport and aerosolization in dry powder inhalers: A simulation study. <i>International Journal of Pharmaceutics</i> , 2021, 610, 121219.	5.2	6

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145	OPTIMAL DISTRIBUTION OF MULTIFUNCTIONAL CATALYSTS IN A PACKED BED REACTOR. Chemical Engineering Communications, 1986, 40, 25-39.	2.6	5
146	Oxygen transfer between rhodium and an oxygen-ion conducting support. AIChE Journal, 1988, 34, 1048-1050.	3.6	5
147	Introducing a variable speed of sound in single-component lattice Boltzmann simulations of isothermal fluid flows. Computers and Fluids, 2018, 167, 129-145.	2.5	5
148	<i>110th Anniversary</i>: Effect of System Size on Boundary-Driven Contact Charging in Particulate Flows. Industrial & Engineering Chemistry Research, 2019, 58, 17980-17990.	3.7	5
149	Multiple timescale contact charging. Physical Review Materials, 2018, 2, .	2.4	5
150	A plasticity model with microstructure evolution for quasi-static granular flows. AIP Conference Proceedings, 2010, , .	0.4	4
151	Stability of periodic travelling waves in trickle beds. Chemical Engineering Science, 1992, 47, 3257-3264.	3.8	3
152	On modelling shear layers in dense granular flows. Journal of Fluid Mechanics, 2020, 892, .	3.4	3
153	Infinite-wavelength analysis for two-phase flow: A three-parameter computer-assisted study of global bifurcations. Physica D: Nonlinear Phenomena, 1992, 55, 197-220.	2.8	2
154	Rebuttal to the Comments of Lyle F. Albright on "Kinetic Analysis of Isobutane/Butene Alkylations over Ultrastable H ⁺ Y Zeolite". Industrial & Engineering Chemistry Research, 1997, 36, 2517-2520.	3.7	2
155	Permeability in Fixed Beds of Spheres with Size Distributions and Stochastically Generated Porous Media Analogs. , 2010, , .		2
156	Preface: 21st International Symposium on Chemical Reaction Engineering (ISCRE 21). Industrial & Engineering Chemistry Research, 2010, 49, 10153-10153.	3.7	2
157	Roy Jackson. Industrial & Engineering Chemistry Research, 1999, 38, 575-575.	3.7	1
158	Professor M. S. Ananth: Leading Researcher, Gifted Teacher, and Visionary Leader of Higher Education in India. Industrial & Engineering Chemistry Research, 2011, 50, 12845-12846.	3.7	1
159	Periodic flow structures in vertical gas-particle flows. Powder Technology, 2013, 241, 174-180.	4.2	1
160	Sub-Grid Filtering Model for Multiphase Heat Transfer With Immersed Tubes. , 2014, , .		1
161	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.	3.4	0
162	James Wei. Industrial & Engineering Chemistry Research, 2001, 40, 4155-4156.	3.7	0

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163	Multifunctional Catalyst for Fischer-Tropsch Synthesis. ACS Symposium Series, 2007, , 75-85.	0.5	0
164	ExSact: Novel Solid-Acid Catalyzed Iso-Paraffin Alkylation Process. ACS Symposium Series, 2007, , 181-193.	0.5	0
165	A tribute to professor Roy Jackson: Intellectual leader, scholar, mentor. AIChE Journal, 2017, 63, 5239-5249.	3.6	0
166	A Tribute to Roy Jackson. AIChE Journal, 2017, 63, 5238-5238.	3.6	0
167	Mid-Infrared Scattering in $\hat{\gamma}$ -Al ₂ O ₃ Catalytic Powders. Applied Spectroscopy, 2021, 75, 706-717.	2.2	0