Benjamin J Glasser

List of Publications by Year
in descending order

45 papers	1,319 citations	393982 19 h-index	344852 36 g-index
46 all docs	46 docs citations	46 times ranked	991 citing authors

#	Article	IF	Citations
1	Discrete element simulation of free flowing grains in a fourâ€bladed mixer. AICHE Journal, 2009, 55, 2035-2048.	1.8	135
2	Polydisperse granular flows in a bladed mixer: Experiments and simulations of cohesionless spheres. Chemical Engineering Science, 2011, 66, 1811-1824.	1.9	93
3	Effect of particle size distribution on segregation in vibrated systems. Powder Technology, 2013, 237, 543-553.	2.1	75
4	A parametric investigation of impregnation and drying of supported catalysts. Chemical Engineering Science, 2008, 63, 4517-4530.	1.9	68
5	The effect of the number of impeller blades on granular flow in a bladed mixer. Powder Technology, 2016, 302, 333-349.	2.1	62
6	Characterization of granular flow of wet solids in a bladed mixer. AICHE Journal, 2006, 52, 2757-2766.	1.8	54
7	Wet granular flows in a bladed mixer: Experiments and simulations of monodisperse spheres. AICHE Journal, 2012, 58, 3354-3369.	1.8	52
8	Prediction of conductive heating time scales of particles in a rotary drum. Chemical Engineering Science, 2016, 152, 45-54.	1.9	44
9	Batch Uptake of Lysozyme: Effect of Solution Viscosity and Mass Transfer on Adsorption. Biotechnology Progress, 1998, 14, 913-921.	1.3	43
10	The effect of mixer properties and fill level on granular flow in a bladed mixer. AICHE Journal, 2010, 56, 336-353.	1.8	41
11	Density waves and coherent structures in granular Couette flows. Physics of Fluids, 2004, 16, 509-529.	1.6	33
12	Measurement of residence time distribution in a rotary calciner. AICHE Journal, 2013, 59, 4068-4076.	1.8	31
13	Granular flow and dielectrophoresis: The effect of electrostatic forces on adhesion and flow of dielectric granular materials. Powder Technology, 2010, 199, 180-188.	2.1	27
14	Drying of supported catalysts for low melting point precursors: Impact of metal loading and drying methods on the metal distribution. Chemical Engineering Science, 2012, 79, 187-199.	1.9	27
15	Flow of granular materials in a bladed mixer: Effect of particle properties and process parameters on impeller torque and power consumption. Advanced Powder Technology, 2018, 29, 2733-2752.	2.0	24
16	Density waves in gravity-driven granular flow through a channel. Physics of Fluids, 2002, 14, 3309-3326.	1.6	23
17	Drying of Supported Catalysts: A Comparison of Model Predictions and Experimental Measurements of Metal Profiles. Industrial & Engineering Chemistry Research, 2010, 49, 2649-2657.	1.8	22
18	Formulation and manufacture of pharmaceuticals by fluidizedâ€bed impregnation of active pharmaceutical ingredients onto porous carriers. AICHE Journal, 2013, 59, 4538-4552.	1.8	20

#	Article	IF	Citations
19	Measurement of the axial dispersion coefficient of powders in a rotating cylinder: dependence on bulk flow properties. Powder Technology, 2016, 292, 298-306.	2.1	17
20	Cellular automata model of gravity-driven granular flows. Granular Matter, 2007, 9, 219-229.	1.1	15
21	Drying of Ni/Alumina Catalysts: Control of the Metal Distribution Using Surfactants and the Melt Infiltration Method. Industrial & Engineering Chemistry Research, 2014, 53, 5792-5800.	1.8	15
22	Electrostatic charging during the flow of grains from a cylinder. Powder Technology, 2009, 195, 158-165.	2.1	14
23	Fluidized bed drying of a pharmaceutical powder: A parametric investigation of drying of dibasic calcium phosphate. Drying Technology, 2017, 35, 1602-1618.	1.7	14
24	Heat transfer of dry granular materials in a bladed mixer: Effect of thermal properties and agitation rate. AICHE Journal, 2020, 66, e16861.	1.8	14
25	Continuous fluidized bed drying: Residence time distribution characterization and effluent moisture content prediction. AICHE Journal, 2020, 66, e16902.	1.8	13
26	A parametric investigation of gas-particle flow in a vertical duct. AICHE Journal, 2006, 52, 940-956.	1.8	12
27	Analysis of heterogeneously catalyzed reactions close to bubbles. AICHE Journal, 2005, 51, 1482-1496.	1.8	11
28	Liquid Fuels from Alternative Carbon Sources Minimizing Carbon Dioxide Emissions. AICHE Journal, 2013, 59, 2062-2078.	1.8	11
29	Effect of Resin Characteristics on Fluidized Bed Adsorption of Proteins. Biotechnology Progress, 1999, 15, 932-940.	1.3	10
30	Using the attainable region analysis to determine the effect of process parameters on breakage in a ball mill. AICHE Journal, 2012, 58, 2665-2673.	1.8	10
31	Improving dissolution kinetics of pharmaceuticals by fluidized bed impregnation of active pharmaceutical ingredients. AICHE Journal, 2016, 62, 4201-4214.	1.8	10
32	Connections between density waves in fluidized beds and compressible flows. AICHE Journal, 2002, 48, 1645-1664.	1.8	9
33	Shape-mediated ordering in granular blends. Physical Review E, 2010, 81, 052301.	0.8	8
34	Effect of liquid addition on the bulk and flow properties of fine and coarse glass beads. AICHE Journal, 2016, 62, 648-658.	1.8	8
35	Granular flow transitions on sinusoidal surfaces. Journal of Fluid Mechanics, 2006, 556, 253.	1.4	6
36	Systems approach to reducing energy usage and carbon dioxide emissions. AICHE Journal, 2009, 55, 2202-2207.	1.8	6

#	Article	IF	Citations
37	Scale up of heat transfer for dry granular material in a cylindrical bladed mixer. Powder Technology, 2021, 385, 336-347.	2.1	6
38	Drying of supported catalysts for high metal concentrations: A reduced parameter model. Chemical Engineering Science, 2019, 206, 361-374.	1.9	5
39	Instability of bounded gas-particle fluidized beds. AICHE Journal, 2007, 53, 811-824.	1.8	4
40	Granular and gasâ€“particle flows in a channel with a bidisperse particle mixture. Chemical Engineering Science, 2008, 63, 5696-5713.	1.9	4
41	Infrared Temperature Measurements and DEM Simulations of Heat Transfer in a Bladed Mixer. AICHE Journal, 0, , .	1.8	4
42	Manufacturing of Pharmaceuticals by Impregnation of an Active Pharmaceutical Ingredient onto a Mesoporous Carrier: Impact of Solvent and Loading. Journal of Pharmaceutical Innovation, 2019, 14, 194-205.	1.1	3
43	Effect of liquid addition on the bulk and flow properties of cohesive powders. Particulate Science and Technology, 2022, 40, 141-150.	1.1	2
44	Development of a Controlled Continuous Low-Dose Feeding Process. AAPS PharmSciTech, 2021, 22, 247.	1.5	2
45	A novel consolidation method to measure powder flow properties using a small amount of material. AICHE Journal, 2016, 62, 4193-4200.	1.8	1