Mojtaba Ghadiri

List of Publications by Year
in descending order

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263	9,125	34016	58464
papers	citations	52 h-index	82 g-index

278	278	278	5140
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	Triboelectric charging of powders: A review. Chemical Engineering Science, 2010, 65, 5781-5807.	1.9	469
2	Electrostatic enhancement of coalescence of water droplets in oil: a review of the current understanding. Chemical Engineering Journal, 2001, 84, 173-192.	6.6	372
3	Impact attrition of particulate solids. Part 1: A theoretical model of chipping. Chemical Engineering Science, 2002, 57, 3659-3669.	1.9	229
4	Electrostatic phase separation: A review. Chemical Engineering Research and Design, 2015, 96, 177-195.	2.7	181
5	Hydrogen production by sorption-enhanced steam reforming of glycerol. Bioresource Technology, 2009, 100, 3540-3547.	4.8	168
6	Jamming during particle spreading in additive manufacturing. Powder Technology, 2018, 338, 253-262.	2.1	151
7	Electrification of an elastic sphere by repeated impacts on a metal plate. Journal Physics D: Applied Physics, 2000, 33, 2311-2319.	1.3	144
8	Effect of the impact angle on the breakage of agglomerates: a numerical study using DEM. Powder Technology, 2003, 130, 132-137.	2.1	138
9	Breakage patterns of agglomerates. Powder Technology, 2001, 120, 232-243.	2.1	121
10	Steam reforming of crude glycerol with in situ CO2 sorption. Bioresource Technology, 2010, 101, 2436-2442.	4.8	120
11	A review of bulk powder caking. Powder Technology, 2017, 313, 389-401.	2.1	118
12	Attrition of sorbents during fluidized bed calcination and sulphation. Powder Technology, 2000, 107, 153-167.	2.1	116
13	Motion, deformation and break-up of aqueous drops in oils under high electric field strengths. Chemical Engineering and Processing: Process Intensification, 2003, 42, 259-272.	1.8	113
14	Dropâ€“drop coalescence in an electric field: the effects of applied electric field and electrode geometry. Colloids and Surfaces A: Physicochemical and Engineering Aspects, 2003, 219, 253-279.	2.3	112
15	Thermodynamic analyses of adsorption-enhanced steam reforming of glycerol for hydrogen production. International Journal of Hydrogen Energy, 2009, 34, 7208-7222.	3.8	110
16	Distinct element simulation of impact breakage of lactose agglomerates. Advanced Powder Technology, 1997, 8, 15-37.	2.0	108
17	Effect of mill type on the size reduction and phase transformation of gamma alumina. Chemical Engineering Science, 2015, 134, 774-783.	1.9	107
18	Triboelectrification of pharmaceutical powders by particle impact. International Journal of Pharmaceutics, 2007, 334, 149-155.	2.6	104

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19	Effect of interface energy on the impact strength of agglomerates. Powder Technology, 1999, 105, 66-73.	2.1	103
20	Impact attrition of particulate solids. Part 2: Experimental work. Chemical Engineering Science, 2002, 57, 3671-3686.	1.9	103
21	Mechanistic analysis and computer simulation of impact breakage of agglomerates: Effect of surface energy. Chemical Engineering Science, 2006, 61, 2476-2481.	1.9	101
22	Aerodynamic dispersion of cohesive powders: A review of understanding and technology. Advanced Powder Technology, 2009, 20, 4-16.	2.0	99
23	Single and bulk compressions of soft granules: Experimental study and DEM evaluation. Chemical Engineering Science, 2005, 60, 3993-4004.	1.9	97
24	The effect of interfacial tension on secondary drop formation in electro-coalescence of water droplets in oil. Chemical Engineering Science, 2011, 66, 5330-5337.	1.9	93
25	Analysis of the dynamics of the FT4 powder rheometer. Powder Technology, 2015, 285, 123-127.	2.1	91
26	A comparative study on hydrogen production from steam-glycerol reforming: thermodynamics and experimental. Renewable Energy, 2011, 36, 779-788.	4.3	88
27	Effect of granule morphology on breakage behaviour during compression. Powder Technology, 2004, 143-144, 84-96.	2.1	85
28	Electro-coalescence of water drops in oils under pulsatile electric fields. Chemical Engineering Science, 2014, 120, 130-142.	1.9	81
29	Characterisation of granule structure and strength made in a high shear granulator. Powder Technology, 2009, 192, 184-194.	2.1	79
30	Effect of particle shape on flow in discrete element method simulation of a rotary batch seed coater. Powder Technology, 2016, 296, 29-36.	2.1	79
31	Distinct element analysis and experimental evaluation of the Heckel analysis of bulk powder compression. Powder Technology, 2004, 141, 251-261.	2.1	78
32	Analysis of particle motion in a paddle mixer using Discrete Element Method (DEM). Powder Technology, 2011, 206, 189-194.	2.1	78
33	Electro-coalescence of an aqueous droplet at an oilâ€“water interface. Chemical Engineering and Processing: Process Intensification, 2011, 50, 338-344.	1.8	76
34	A review of attrition of fluid cracking catalyst particles. Advanced Powder Technology, 2000, 11, 145-174.	2.0	74
35	Experimental studies of deformation and break-up of aqueous drops in high electric fields. Colloids and Surfaces A: Physicochemical and Engineering Aspects, 2003, 225, 193-210.	2.3	73
36	Impact attrition of sodium carbonate monohydrate crystals. Powder Technology, 1993, 76, 15-22.	2.1	71

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37	Numerical simulation of powder flow during spreading in additive manufacturing. Powder Technology, 2019, 342, 801-807.	2.1	70
38	Deformation and break-up of aqueous drops in dielectric liquids in high electric fields. Journal of Electrostatics, 2001, 51-52, 463-469.	1.0	69
39	Effects of process parameters on granules properties produced in a high shear granulator. Chemical Engineering Research and Design, 2011, 89, 512-518.	2.7	66
40	Disintegration of weak lactose agglomerates for inhalation applications. International Journal of Pharmaceutics, 1998, 172, 199-209.	2.6	64
41	A linear model of elasto-plastic and adhesive contact deformation. Granular Matter, 2014, 16, 151-162.	1.1	62
42	Analysis of impact damage of agglomerates: effect of impact angle. Powder Technology, 2004, 143-144, 97-109.	2.1	61
43	Effect of structural characteristics on impact breakage of agglomerates. Powder Technology, 2003, 130, 428-435.	2.1	59
44	Numerical simulation of particle flow and segregation during roller spreading process in additive manufacturing. Powder Technology, 2020, 364, 811-821.	2.1	59
45	Distinct element analysis of bulk crushing: effect of particle properties and loading rate. Powder Technology, 2000, 109, 241-254.	2.1	58
46	Electrocoalescence of water drop trains in oil under constant and pulsatile electric fields. Chemical Engineering Research and Design, 2015, 104, 658-668.	2.7	58
47	Computer simulation of the effect of contact stiffness and adhesion on the fluidization behaviour of powders. Chemical Engineering Science, 2007, 62, 184-194.	1.9	57
48	Attrition of granular solids in a shear cell. Chemical Engineering Science, 2000, 55, 5445-5456.	1.9	56
49	Tribo-electrification of active pharmaceutical ingredients and excipients. Powder Technology, 2012, 217, 427-434.	2.1	56
50	Forces between Polystyrene Particles in Water Using the AFM:Â Pull-Off Force vs Particle Size. Langmuir, 2002, 18, 5741-5748.	1.6	55
51	Effect of granulation scale-up on the strength of granules. Powder Technology, 2009, 189, 304-312.	2.1	55
52	Impact attrition of sodium chloride crystals. Chemical Engineering Science, 1987, 42, 843-853.	1.9	54
53	The breakage behaviour of Aspirin under quasi-static indentation and single particle impact loading: Effect of crystallographic anisotropy. International Journal of Pharmaceutics, 2011, 411, 49-63.	2.6	53
54	Drop test: A new method to measure the particle adhesion force. Powder Technology, 2014, 264, 236-241.	2.1	53

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55	A critique of two models for cyclone performance. AICHE Journal, 1991, 37, 285-289.	1.8	52
56	Development of a novel approach towards predicting the milling behaviour of pharmaceutical powders. European Journal of Pharmaceutical Sciences, 2004, 23, 327-336.	1.9	50
57	The effect of particle shape on predicted segregation in binary powder mixtures. Powder Technology, 2017, 319, 313-322.	2.1	50
58	Impact breakage of poly-methylmethacrylate (PMMA) extrudates: I. Chipping mechanism. Advanced Powder Technology, 1996, 7, 183-197.	2.0	48
59	Effect of scale of operation on granule strength in high shear granulators. Chemical Engineering Science, 2008, 63, 915-923.	1.9	48
60	A simple method for assessing powder spreadability for additive manufacturing. Powder Technology, 2020, 367, 671-679.	2.1	48
61	Influence of processing conditions on attrition of NaCl crystals. Powder Technology, 1991, 65, 311-320.	2.1	47
62	Measurement of Charge Transfer due to Single Particle Impact. Particle and Particle Systems Characterization, 2006, 23, 133-137.	1.2	47
63	Characterisation of Flowability of Loosely Compacted Cohesive Powders by Indentation. Particle and Particle Systems Characterization, 2007, 24, 117-123.	1.2	47
64	Observations on impact attrition of granular solids. Powder Technology, 1986, 49, 53-57.	2.1	46
65	Size measurement of dry ice particles produced from liquid carbon dioxide. Journal of Aerosol Science, 2012, 48, 1-9.	1.8	46
66	Solids behaviour in a gasâ€“solid two-phase mixture flowing through a packed particle bed. Chemical Engineering Science, 2005, 60, 5231-5239.	1.9	44
67	Weibull Analysis of Quasi-Static Crushing Strength of Catalyst Particles. Chemical Engineering Research and Design, 2003, 81, 953-962.	2.7	43
68	A one-dimensional plug-flow model of a counter-current spray drying tower. Chemical Engineering Research and Design, 2014, 92, 826-841.	2.7	42
69	Analysis of the milling rate of pharmaceutical powders using the Distinct Element Method (DEM). Chemical Engineering Science, 2005, 60, 1441-1448.	1.9	41
70	Distinct element analysis of attrition of granular solids under shear deformation. Chemical Engineering Science, 2006, 61, 5991-6001.	1.9	41
71	Methodology for Investigating the Mechanical Strength of Reforming Catalyst Beads. Oil and Gas Science and Technology, 2000, 55, 67-85.	1.4	40
72	Prediction of attrition in agitated particle beds. Chemical Engineering Science, 2011, 66, 4757-4770.	1.9	40

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73	The behaviour of a liquidâ€“liquid interface and drop-interface coalescence under the influence of an electric field. Colloids and Surfaces A: Physicochemical and Engineering Aspects, 2003, 215, 101-123.	2.3	39
74	Fluidised-bed jet milling of pharmaceutical powders. Powder Technology, 2004, 141, 233-238.	2.1	39
75	Analysis of powder rheometry of FT4: Effect of particle shape. Chemical Engineering Science, 2017, 173, 374-383.	1.9	39
76	DEM analysis of the effect of particle shape, cohesion and strain rate on powder rheometry. Powder Technology, 2019, 342, 653-663.	2.1	39
77	Electrocoalesce-separators for the separation of aqueous drops from a flowing dielectric viscous liquid. Separation and Purification Technology, 2002, 29, 63-77.	3.9	38
78	Flow of a gasâ€“solid two-phase mixture through a packed bed. Chemical Engineering Science, 2004, 59, 3071-3079.	1.9	38
79	Relationship between surface area coverage of flow-aids and flowability of cohesive particles. Powder Technology, 2017, 322, 417-427.	2.1	38
80	Cohesive Powder Flow: Trends and Challenges in Characterisation and Analysis. KONA Powder and Particle Journal, 2020, 37, 3-18.	0.9	38
81	Attrition of FCC powder in the jetting region of a fluidized bed. Powder Technology, 1994, 80, 175-178.	2.1	37
82	Droplet deformation under pulsatile electric fields. Chemical Engineering Research and Design, 2017, 127, 180-188.	2.7	36
83	Immobilized copper(II) complexes on montmorillonite and MCM-41 as selective catalysts for epoxidation of alkenes. Journal of Molecular Catalysis A, 2005, 233, 127-131.	4.8	35
84	Analysis of pulsating electric signals generated in gasâ€“solids pipe flow. Chemical Engineering Science, 2008, 63, 1353-1360.	1.9	35
85	Use of the JKR Model for Calculating Adhesion between Rough Surfaces. Langmuir, 2004, 20, 9571-9576.	1.6	34
86	Analysis of flowability of cohesive powders using Distinct Element Method. Powder Technology, 2005, 158, 51-57.	2.1	33
87	Electro-hydrodynamic separation of aqueous drops from flowing viscous oil. Journal of Petroleum Science and Engineering, 2007, 55, 146-155.	2.1	33
88	Mechanistic analysis and computer simulation of the aerodynamic dispersion of loose aggregates. Chemical Engineering Research and Design, 2011, 89, 519-525.	2.7	33
89	Analysis of ball indentation on cohesive powder beds using distinct element modelling. Powder Technology, 2013, 233, 80-90.	2.1	33
90	Effect of size ratio on the behaviour of agglomerates embedded in a bed of particles subjected to shearing: DEM analysis. Chemical Engineering Science, 2007, 62, 935-942.	1.9	32

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91	Modelling of dense and complex granular flow in high shear mixer granulatorâ€"A CFD approach. Chemical Engineering Science, 2009, 64, 3622-3632.	1.9	32
92	Analysis of partial electrocoalescence by Level-Set and finite element methods. Chemical Engineering Research and Design, 2016, 114, 180-189.	2.7	32
93	A methodology for calibration of DEM input parameters in simulation of segregation of powder mixtures, a special focus on adhesion. Powder Technology, 2018, 339, 789-800.	2.1	32
94	Drop-interface electrocoalescence mode transition under a direct current electric field. Chemical Engineering Science, 2020, 213, 115360.	1.9	32
95	Electrostatic and hydrodynamic separation of aqueous drops in a flowing viscous oil. Chemical Engineering and Processing: Process Intensification, 2002, 41, 649-657.	1.8	31
96	Analysis of seeded granulation in high shear granulators by discrete element method. Powder Technology, 2013, 238, 50-55.	2.1	31
97	Comparison of cohesive powder flowability measured by Schulze Shear Cell, Raining Bed Method, Sevilla Powder Tester and new Ball Indentation Method. Powder Technology, 2015, 286, 807-816.	2.1	31
98	Maltose and pectin assisted solâ€"gel production of Ce0.8Gd0.2O1.9 solid electrolyte nanopowders for solid oxide fuel cells. Journal of Materials Chemistry, 2011, 21, 16494.	6.7	30
99	A power series for vibration of a rotating nanobeam with considering thermal effect. Mechanics of Advanced Materials and Structures, 2016, 23, 1414-1420.	1.5	30
100	Analysis of powder rheometry of FT4: Effect of air flow. Chemical Engineering Science, 2017, 162, 141-151.	1.9	30
101	Breakage of macroporous alumina beads under compressive loading: simulation and experimental validation. Powder Technology, 1999, 105, 57-65.	2.1	29
102	Characterization of the Dispersion Behavior of Powders in Liquids. Particle and Particle Systems Characterization, 2006, 23, 154-158.	1.2	29
103	3D printed agglomerates for granule breakage tests. Powder Technology, 2017, 306, 103-112.	2.1	29
104	Size Effects in a Slowly Sheared Granular Media. Journal of Applied Mechanics, Transactions ASME, 2001, 68, 772-775.	1.1	28
105	Free vibration and critical angular velocity of a rotating variable thickness two-directional FG circular microplate. Microsystem Technologies, 2018, 24, 1525-1543.	1.2	28
106	Critical electric field strength for partial coalescence of droplets on oilâ€"water interface under DC electric field. Chemical Engineering Research and Design, 2018, 136, 83-93.	2.7	28
107	Deformation of 3D printed agglomerates: Multiscale experimental tests and DEM simulation. Chemical Engineering Science, 2020, 217, 115526.	1.9	28
108	CFD modeling of a pilot-scale countercurrent spray drying tower for the manufacture of detergent powder. Drying Technology, 2017, 35, 281-299.	1.7	27

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109	Progress in low temperature hydrogen production with simultaneous CO2 abatement. Chemical Engineering Research and Design, 2011, 89, 1774-1782.	2.7	26
110	A new environmental bulk powder caking tester. Powder Technology, 2013, 249, 323-329.	2.1	26
111	Ball indentation on powder beds for assessing powder flowability: Analysis of operation window. Powder Technology, 2017, 310, 300-306.	2.1	26
112	Tribo-Electrification and Associated Segregation of Pharmaceutical Bulk Powders. KONA Powder and Particle Journal, 2011, 29, 208-223.	0.9	25
113	Analysis of granule breakage in a rotary mixing drum: Experimental study and distinct element analysis. Powder Technology, 2011, 210, 175-180.	2.1	25
114	Effect of gas-particle interaction on roller spreading process in additive manufacturing. Powder Technology, 2020, 372, 466-476.	2.1	25
115	Electro-spraying of a highly conductive and viscous liquid. Journal of Electrostatics, 2001, 51-52, 494-501.	1.0	24
116	Analysis of catalyst particle strength by impact testing: The effect of manufacturing process parameters on the particle strength. Powder Technology, 2005, 160, 67-80.	2.1	24
117	Seeded granulation. Powder Technology, 2011, 206, 53-62.	2.1	24
118	Effect of surfactants on the deformation and break-up of an aqueous drop in oils under high electric field strengths. Journal of Petroleum Science and Engineering, 2015, 125, 38-47.	2.1	24
119	New instrument for tribocharge measurement due to single particle impacts. Review of Scientific Instruments, 2007, 78, 024706.	0.6	23
120	Analysis of a Simple Test Device for Triboâ€Electric Charging of Bulk Powders. Particle and Particle Systems Characterization, 2009, 26, 7-16.	1.2	23
121	X-Ray micro-tomography of freeze dried nickel alginate beads and transformation into NiO nanopowders. RSC Advances, 2012, 2, 9993.	1.7	23
122	Synthesis and characterization of CexGd1â^'xO2â^'Î´ nanopowders employing an alginate mediated ion-exchange process. Chemical Engineering Journal, 2012, 198-199, 149-153.	6.6	22
123	Comparison of Techniques for Measuring the Size of Fine non-spherical particles. Particle and Particle Systems Characterization, 1984, 1, 45-52.	1.2	21
124	Measurement of jet angles in fluidized beds. Powder Technology, 1995, 85, 221-226.	2.1	21
125	Effect of electrostatic field on dripping of highly conductive and viscous liquids. Powder Technology, 2003, 135-136, 361-366.	2.1	21
126	Novel Ionâ€Exchange Process for the Preparation of Metal Oxide Nanopowders from Sodium Alginate. Journal of the American Ceramic Society, 2012, 95, 3124-3129.	1.9	21

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127	Characterisation of flowability of cohesive powders by testing small quantities of weak compacts. Particuology, 2008, 6, 282-285.	2.0	20
128	Auto-granulation of Fine Cohesive Powder by Mechanical Vibration. Procedia Engineering, 2015, 102, 72-80.	1.2	20
129	Solids motion in a conical frustum-shaped high shear mixer granulator. Chemical Engineering Science, 2007, 62, 756-765.	1.9	19
130	Effect of hydrolyzed polyacrylamide used in polymer flooding on dropletâ€“interface electro-coalescence: Variation of critical electric field strength of partial coalescence. Separation and Purification Technology, 2019, 227, 115737.	3.9	19
131	Electrocoalescence of water droplets in sunflower oil using a novel electrode geometry. Chemical Engineering Research and Design, 2019, 152, 226-241.	2.7	19
132	Development of a methodology for predicting particle attrition in a cyclone by CFD-DEM. Powder Technology, 2019, 357, 21-32.	2.1	19
133	An electromechanical valve for solids. Powder Technology, 1992, 73, 21-35.	2.1	18
134	Impact breakage of pharmaceutical tablets. International Journal of Pharmaceutics, 2018, 536, 370-376.	2.6	18
135	Experimental study of the deformation and breakage of 3D printed agglomerates: Effects of packing density and inter-particle bond strength. Powder Technology, 2018, 340, 299-310.	2.1	18
136	Use of nanoindentation to assess potential attrition of particulate solids. Tribology International, 1993, 26, 305-310.	3.0	17
137	A Model of Attrition in the Jetting Region of Fluidised Beds. KONA Powder and Particle Journal, 1996, 14, 5-15.	0.9	17
138	The Effects of Operating Conditions on the Milling of Microcrystalline Cellulose. Chemical Engineering and Technology, 2003, 26, 185-190.	0.9	16
139	Application of X-ray microtomography to numerical simulations of agglomerate breakage by distinct element method. Advanced Powder Technology, 2004, 15, 447-457.	2.0	16
140	Scale-up of High-Shear Mixer Granulators. KONA Powder and Particle Journal, 2008, 26, 190-204.	0.9	16
141	Linear dynamics modelling of droplet deformation in a pulsatile electric field. Chemical Engineering Research and Design, 2016, 114, 162-170.	2.7	16
142	Experimental evaluation of the effect of particle properties on the segregation of ternary powder mixtures. Powder Technology, 2018, 336, 240-254.	2.1	16
143	Shear deformation of binary mixtures of dry particulate solids. Advanced Powder Technology, 2004, 15, 687-697.	2.0	15
144	Energy-based analysis of milling Î±-lactose monohydrate. Journal of Pharmaceutical Sciences, 2004, 93, 886-895.	1.6	15

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145	Impact attrition of spray-dried burkeite particles. Powder Technology, 2016, 304, 2-7.	2.1	15
146	Assessment of surface caking of powders using the ball indentation method. International Journal of Pharmaceutics, 2017, 521, 61-68.	2.6	15
147	Evaluation of a new dispersion technique for assessing triboelectric charging of powders. International Journal of Pharmaceutics, 2018, 543, 151-159.	2.6	15
148	Effect of particle roughness on the bulk deformation using coupled boundary element and discrete element methods. Computational Particle Mechanics, 2020, 7, 603-613.	1.5	15
149	Production of Agglomerates of Well-Defined Structures and Bond Properties Using a Novel Technique. Chemical Engineering Research and Design, 2000, 78, 55-60.	2.7	14
150	Hydrodynamics of gasâ€“solid two-phase mixtures flowing upward through packed beds. Powder Technology, 2005, 153, 13-22.	2.1	14
151	Modeling of agglomerate behavior under shear deformation: effect of velocity field of a high shear mixer granulator on the structure of agglomerates. Advanced Powder Technology, 2007, 18, 803-811.	2.0	14
152	Assessment of the kineticâ€“frictional model for dense granular flow. Particuology, 2008, 6, 50-58.	2.0	14
153	The flowability and aerodynamic dispersion of cohesive powders. Powder Technology, 2013, 240, 88-94.	2.1	14
154	Analysis of screw feeding of faceted particles by discrete element method. Powder Technology, 2020, 367, 474-486.	2.1	14
155	Solâ€Gel Production of <scp><scp>Ce</scp></scp>_{0.8}<scp><scp>Gd</scp></scp>_{0.2}<scp><scp>O</scp></scp>_{1.9} Nanopowders Using Sucrose and Pectin as Organic Precursors. Journal of the American Ceramic Society, 2012, 95, 2863-2868.	1.9	13
156	Analysis of aerodynamic dispersion of cohesive clusters. Chemical Engineering Science, 2013, 86, 146-150.	1.9	13
157	Strength and structure of granules produced in continuous granulators. Powder Technology, 2013, 233, 227-233.	2.1	13
158	A comparative analysis of particle tracking in a mixer by discrete element method and positron emission particle tracking. Powder Technology, 2015, 270, 569-574.	2.1	13
159	CFD Simulation of a Counter-current Spray Drying Tower with Stochastic Treatment of Particle-wall Collision. Procedia Engineering, 2015, 102, 1284-1294.	1.2	13
160	A method for grindability testing using the Scirocco disperser. International Journal of Pharmaceutics, 2016, 501, 65-74.	2.6	13
161	Computational analysis of triboelectrification due to aerodynamic powder dispersion. Powder Technology, 2021, 382, 491-504.	2.1	13
162	Analysis of milling of dry compacted ribbons by distinct element method. Chemical Engineering Science, 2016, 149, 204-214.	1.9	12

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163	Inter-particle coating variability in a rotary batch seed coater. Chemical Engineering Research and Design, 2017, 120, 92-101.	2.7	12
164	Residence time distribution of glass ballotini in isothermal swirling flows in a counter-current spray drying tower. Powder Technology, 2017, 305, 809-815.	2.1	12
165	Analysis of pin milling of pharmaceutical materials. International Journal of Pharmaceutics, 2018, 552, 394-400.	2.6	12
166	Influence of holdup on gas and particle flow patterns in a spiral jet mill. Powder Technology, 2021, 377, 233-243.	2.1	12
167	On the relative importance of the kinetic and frictional contributions to granular motion in an annular Couette flow. Chemical Engineering Science, 2008, 63, 1733-1739.	1.9	11
168	Analysis of anisotropic sector with a radial crack under anti-plane shear loading. International Journal of Solids and Structures, 2010, 47, 1030-1039.	1.3	11
169	Particle Breakage in a Scirocco Disperser. Powder Technology, 2015, 285, 138-145.	2.1	11
170	Numerical analysis of strain rate sensitivity in ball indentation on cohesive powder Beds. Chemical Engineering Science, 2015, 123, 92-98.	1.9	11
171	Assessment of Near-Infrared (NIR) spectroscopy for segregation measurement of low content level ingredients. Powder Technology, 2017, 320, 143-154.	2.1	11
172	Effect of the electrical clamping forces on the mechanics of particulate solids. Powder Technology, 1991, 65, 37-49.	2.1	10
173	The study of the performance of an electrostatic valve used for bulk transport of particulate materials. IEEE Transactions on Industry Applications, 1997, 33, 871-878.	3.3	10
174	Evaluation of the single contact electrical clamping force. Chemical Engineering Science, 2006, 61, 2290-2300.	1.9	10
175	Granular flow fields in vertical high shear mixer granulators. AICHE Journal, 2008, 54, 415-426.	1.8	10
176	Particle Breakage in Agitated Dryers. , 2009, , .		10
177	Effect of temperature and humidity on the breakage behaviour of Aspirin and sucrose particles. Powder Technology, 2010, 201, 248-252.	2.1	10
178	Ion-exchange kinetics and thermal decomposition characteristics of Fe2+-exchanged alginic acid membrane for the formation of iron oxide nanoparticles. Journal of Materials Science, 2014, 49, 7151-7155.	1.7	10
179	High speed video image analysis of flow of fine particles in fluidized bed jets. Advanced Powder Technology, 1998, 9, 229-243.	2.0	9
180	Effect of temperature on the energy utilisation in quasi-static crushing of Î±-lactose monohydrate. Powder Technology, 2004, 141, 239-243.	2.1	9

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181	Vertical upward flow of gasâ€“solid two-phase mixtures through monolith channels. Powder Technology, 2005, 153, 51-58.	2.1	9
182	Solids behaviour in a dilute gasâ€“solid two-phase mixture flowing through monolith channels. Chemical Engineering Science, 2006, 61, 1561-1570.	1.9	9
183	Chapter 19 Analysis of Agglomerate Breakage. Handbook of Powder Technology, 2007, 12, 837-872.	0.1	9
184	Analysis of enzyme dust formation in detergent manufacturing plants. Advanced Powder Technology, 2007, 18, 53-67.	2.0	9
185	Tribo-electrification of powders due to dispersion. Powder Technology, 2013, 250, 75-83.	2.1	9
186	The influence of aspect ratio and roughness on flowability. AIP Conference Proceedings, 2013, , .	0.3	9
187	Impact of surface tension and viscosity on solids motion in a conical high shear mixer granulator. AICHE Journal, 2009, 55, 3088-3098.	1.8	8
188	Influence of measurement cell size on predicted attrition by the Distinct Element Method. Powder Technology, 2013, 236, 100-106.	2.1	8
189	Fluid-particle energy transfer in spiral jet milling. EPJ Web of Conferences, 2017, 140, 09040.	0.1	8
190	Prediction of flowability of cohesive powder mixtures at high strain rate conditions by discrete element method. Powder Technology, 2020, 372, 59-67.	2.1	8
191	Numerical Simulation of Particle Dynamics in a Spiral Jet Mill via Coupled CFD-DEM. Pharmaceutics, 2021, 13, 937.	2.0	8
192	Particle Impact Breakage. , 2006, , .		8
193	An Electromechanical Valve for Solids. KONA Powder and Particle Journal, 1991, 9, 113-123.	0.9	8
194	Analysis of triboelectric charging of particles due to aerodynamic dispersion by a pulse of pressurised air jet. Advanced Powder Technology, 2017, 28, 2735-2740.	2.0	7
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