

Johannes G Khinast

List of Publications by Year in descending order

Source: <https://exaly.com/author-pdf/3389701/publications.pdf>

Version: 2024-02-01

308
papers

8,995
citations

38720

50
h-index

74108

75
g-index

324
all docs

324
docs citations

324
times ranked

6067
citing authors

#	ARTICLE	IF	CITATIONS
1	The Future of Pharmaceutical Manufacturing Sciences. <i>Journal of Pharmaceutical Sciences</i> , 2015, 104, 3612-3638.	1.6	303
2	Large-scale CFD DEM simulations of fluidized granular systems. <i>Chemical Engineering Science</i> , 2013, 98, 298-310.	1.9	188
3	Thermal conversion of biomass: Comprehensive reactor and particle modeling. <i>AIChE Journal</i> , 2002, 48, 2398-2411.	1.8	179
4	Nanosuspensions as advanced printing ink for accurate dosing of poorly soluble drugs in personalized medicines. <i>International Journal of Pharmaceutics</i> , 2011, 420, 93-100.	2.6	162
5	Decomposition of limestone: The influence of CO ₂ and particle size on the reaction rate. <i>Chemical Engineering Science</i> , 1996, 51, 623-634.	1.9	154
6	Large-scale powder mixer simulations using massively parallel GPU architectures. <i>Chemical Engineering Science</i> , 2010, 65, 6435-6442.	1.9	137
7	Discrete element simulation of free flowing grains in a four-bladed mixer. <i>AIChE Journal</i> , 2009, 55, 2035-2048.	1.8	135
8	Impact of drying on the catalyst profile in supported impregnation catalysts. <i>Chemical Engineering Science</i> , 2001, 56, 4473-4487.	1.9	125
9	Continuously Seeded, Continuously Operated Tubular Crystallizer for the Production of Active Pharmaceutical Ingredients. <i>Crystal Growth and Design</i> , 2010, 10, 2247-2257.	1.4	118
10	Mixing characteristics of wet granular matter in a bladed mixer. <i>Powder Technology</i> , 2010, 200, 171-189.	2.1	115
11	Pd-leaching and Pd-removal in Pd/C-catalyzed Suzuki couplings. <i>Applied Catalysis A: General</i> , 2007, 325, 76-86.	2.2	110
12	Continuous Sonocrystallization of Acetylsalicylic Acid (ASA): Control of Crystal Size. <i>Crystal Growth and Design</i> , 2012, 12, 4733-4738.	1.4	110
13	Mass transfer and chemical reactions in bubble swarms with dynamic interfaces. <i>AIChE Journal</i> , 2005, 51, 2786-2800.	1.8	107
14	DEM simulation of continuous tablet coating: Effects of tablet shape and fill level on inter-tablet coating variability. <i>Chemical Engineering Science</i> , 2012, 69, 107-121.	1.9	104
15	Granular flow and segregation in a four-bladed mixer. <i>Chemical Engineering Science</i> , 2005, 60, 7091-7107.	1.9	99
16	Continuous Crystallization of Proteins in a Tubular Plug-Flow Crystallizer. <i>Crystal Growth and Design</i> , 2015, 15, 1089-1095.	1.4	96
17	Polydisperse granular flows in a bladed mixer: Experiments and simulations of cohesionless spheres. <i>Chemical Engineering Science</i> , 2011, 66, 1811-1824.	1.9	93
18	PAT for tableting: Inline monitoring of API and excipients via NIR spectroscopy. <i>European Journal of Pharmaceutics and Biopharmaceutics</i> , 2014, 87, 271-278.	2.0	90

#	ARTICLE	IF	CITATIONS
19	Synthesis, catalytic activity, and leaching studies of a heterogeneous Pd-catalyst including an immobilized bis(oxazoline) ligand. <i>Journal of Catalysis</i> , 2012, 286, 30-40.	3.1	89
20	Numerical investigation of a coarse-grain discrete element method in solid mixing in a spouted bed. <i>Chemical Engineering Journal</i> , 2018, 346, 416-426.	6.6	89
21	An integrated Quality by Design (QbD) approach towards design space definition of a blending unit operation by Discrete Element Method (DEM) simulation. <i>European Journal of Pharmaceutical Sciences</i> , 2011, 42, 106-115.	1.9	88
22	3D printing of oral drugs: a new reality or hype?. <i>Expert Opinion on Drug Delivery</i> , 2018, 15, 1-4.	2.4	88
23	The effect of agitated drying on the morphology of l-threonine (needle-like) crystals. <i>International Journal of Pharmaceutics</i> , 2004, 270, 263-277.	2.6	87
24	Seed loading effects on the mean crystal size of acetylsalicylic acid in a continuous flow crystallization device. <i>Crystal Research and Technology</i> , 2011, 46, 227-237.	0.6	81
25	Non-destructive analysis of tablet coatings with optical coherence tomography. <i>European Journal of Pharmaceutical Sciences</i> , 2011, 44, 142-148.	1.9	79
26	Experiments and simulations of cohesionless particles with varying roughness in a bladed mixer. <i>Chemical Engineering Science</i> , 2010, 65, 4557-4571.	1.9	76
27	Local analysis of the tablet coating process: Impact of operation conditions on film quality. <i>Chemical Engineering Science</i> , 2010, 65, 5699-5715.	1.9	75
28	A Review of PAT Strategies in Secondary Solid Oral Dosage Manufacturing of Small Molecules. <i>Journal of Pharmaceutical Sciences</i> , 2017, 106, 667-712.	1.6	72
29	A parametric investigation of impregnation and drying of supported catalysts. <i>Chemical Engineering Science</i> , 2008, 63, 4517-4530.	1.9	68
30	Crystal Size Control in a Continuous Tubular Crystallizer. <i>Crystal Growth and Design</i> , 2015, 15, 1683-1691.	1.4	66
31	Crystal Engineering in Continuous Plug-Flow Crystallizers. <i>Crystal Growth and Design</i> , 2017, 17, 6432-6444.	1.4	65
32	Impact of agitated drying on crystal morphology: KCl-water system. <i>Powder Technology</i> , 2003, 132, 119-130.	2.1	64
33	Development of sustained-release lipophilic calcium stearate pellets via hot melt extrusion. <i>European Journal of Pharmaceutics and Biopharmaceutics</i> , 2011, 79, 635-645.	2.0	64
34	Large-scale GPU based DEM modeling of mixing using irregularly shaped particles. <i>Advanced Powder Technology</i> , 2018, 29, 2476-2490.	2.0	64
35	Analysis of large-scale tablet coating: Modeling, simulation and experiments. <i>European Journal of Pharmaceutical Sciences</i> , 2016, 90, 14-24.	1.9	63
36	Continuous quantitative monitoring of powder mixing dynamics by near-infrared spectroscopy. <i>Powder Technology</i> , 2011, 205, 87-96.	2.1	62

#	ARTICLE	IF	CITATIONS
37	The effect of the number of impeller blades on granular flow in a bladed mixer. Powder Technology, 2016, 302, 333-349.	2.1	62
38	Detailed modeling and process design of an advanced continuous powder mixer. International Journal of Pharmaceutics, 2018, 552, 288-300.	2.6	62
39	Catalytic properties of several supported Pd(II) complexes for Suzuki coupling reactions. Tetrahedron Letters, 2005, 46, 6865-6869.	0.7	61
40	Mechanistic modeling of modular co-rotating twin-screw extruders. International Journal of Pharmaceutics, 2014, 474, 157-176.	2.6	59
41	Controlled Silicon Surface Functionalization by Alkene Hydrosilylation. Journal of the American Chemical Society, 2005, 127, 12798-12799.	6.6	57
42	Supervisory Control System for Monitoring a Pharmaceutical Hot Melt Extrusion Process. AAPS PharmSciTech, 2013, 14, 1034-1044.	1.5	57
43	Spray models for discrete element simulations of particle coating processes. Chemical Engineering Science, 2013, 101, 603-614.	1.9	57
44	Formation of O/W emulsions by static mixers for pharmaceutical applications. Chemical Engineering Science, 2011, 66, 5084-5094.	1.9	56
45	Inline monitoring and a PAT strategy for pharmaceutical hot melt extrusion. International Journal of Pharmaceutics, 2013, 455, 159-168.	2.6	56
46	Experimental Analysis of Tablet Properties for Discrete Element Modeling of an Active Coating Process. AAPS PharmSciTech, 2013, 14, 402-411.	1.5	56
47	Co-rotating twin-screw extruders: Detailed analysis of conveying elements based on smoothed particle hydrodynamics. Part 1: Hydrodynamics. Chemical Engineering Science, 2015, 134, 861-879.	1.9	55
48	Characterization of granular flow of wet solids in a bladed mixer. AIChE Journal, 2006, 52, 2757-2766.	1.8	54
49	Effect of blade angle and particle size on powder mixing performance in a rectangular box. Powder Technology, 2011, 211, 100-113.	2.1	53
50	Industrial scale simulations of tablet coating using GPU based DEM: A validation study. Chemical Engineering Science, 2019, 202, 462-480.	1.9	53
51	Wet granular flows in a bladed mixer: Experiments and simulations of monodisperse spheres. AIChE Journal, 2012, 58, 3354-3369.	1.8	52
52	Printing medicines as orodispersible dosage forms: Effect of substrate on the printed micro-structure. International Journal of Pharmaceutics, 2016, 509, 518-527.	2.6	52
53	Control of three different continuous pharmaceutical manufacturing processes: Use of soft sensors. International Journal of Pharmaceutics, 2018, 543, 60-72.	2.6	52
54	Mathematical modeling of the coating process. International Journal of Pharmaceutics, 2013, 457, 407-422.	2.6	51

#	ARTICLE	IF	CITATIONS
55	Nano-extrusion: A promising tool for continuous manufacturing of solid nano-formulations. <i>International Journal of Pharmaceutics</i> , 2014, 477, 1-11.	2.6	51
56	Flow and mass transfer of fully resolved bubbles in non-Newtonian fluids. <i>AIChE Journal</i> , 2007, 53, 1861-1878.	1.8	50
57	Mapping regions with different bifurcation diagrams of a reverse-flow reactor. <i>AIChE Journal</i> , 1997, 43, 2034-2047.	1.8	49
58	Influence of pH and ionic strength on the metal profile of impregnation catalysts. <i>Chemical Engineering Science</i> , 2004, 59, 1063-1077.	1.9	48
59	Modeling of turbulent gas-liquid bubbly flows using stochastic Lagrangian model and lattice-Boltzmann scheme. <i>Chemical Engineering Science</i> , 2011, 66, 2745-2757.	1.9	48
60	Nano-extrusion: a One-Step Process for Manufacturing of Solid Nanoparticle Formulations Directly from the Liquid Phase. <i>AAPS PharmSciTech</i> , 2013, 14, 601-604.	1.5	48
61	The design of controlled-release formulations resistant to alcohol-induced dose dumping – A review. <i>European Journal of Pharmaceutics and Biopharmaceutics</i> , 2014, 87, 217-226.	2.0	48
62	Calibration-free in-line monitoring of pellet coating processes via optical coherence tomography. <i>Chemical Engineering Science</i> , 2015, 125, 200-208.	1.9	48
63	Impact of 2-D bubble dynamics on the selectivity of fast gas-liquid reactions. <i>AIChE Journal</i> , 2001, 47, 2304-2319.	1.8	47
64	Monitoring Blending of Pharmaceutical Powders with Multipoint NIR Spectroscopy. <i>AAPS PharmSciTech</i> , 2013, 14, 234-244.	1.5	47
65	RTD modeling of a continuous dry granulation process for process control and materials diversion. <i>International Journal of Pharmaceutics</i> , 2017, 528, 334-344.	2.6	47
66	Optimized continuous pharmaceutical manufacturing via model-predictive control. <i>International Journal of Pharmaceutics</i> , 2016, 510, 100-115.	2.6	46
67	Optical coherence tomography as a novel tool for in-line monitoring of a pharmaceutical film-coating process. <i>European Journal of Pharmaceutical Sciences</i> , 2014, 55, 58-67.	1.9	43
68	Co-rotating twin-screw extruders: Detailed analysis of conveying elements based on smoothed particle hydrodynamics. Part 2: Mixing. <i>Chemical Engineering Science</i> , 2015, 134, 880-886.	1.9	43
69	Low-dose capsule filling of inhalation products: Critical material attributes and process parameters. <i>International Journal of Pharmaceutics</i> , 2014, 473, 617-626.	2.6	42
70	Simulation of a tablet coating process at different scales using DEM. <i>European Journal of Pharmaceutical Sciences</i> , 2016, 93, 74-83.	1.9	42
71	Hopper flow of irregularly shaped particles (non-convex polyhedra): GPU-based DEM simulation and experimental validation. <i>Chemical Engineering Science</i> , 2018, 188, 34-51.	1.9	42
72	The effect of mixer properties and fill level on granular flow in a bladed mixer. <i>AIChE Journal</i> , 2010, 56, 336-353.	1.8	41

#	ARTICLE	IF	CITATIONS
73	Dependence of cooled reverse-flow reactor dynamics on reactor model. <i>AIChE Journal</i> , 1999, 45, 299-309.	1.8	40
74	Chemisorption of silane compounds on hydroxyapatites of various morphologies. <i>Scripta Materialia</i> , 2008, 58, 1039-1042.	2.6	40
75	DEM study of granular transport in partially filled horizontal screw conveyors. <i>Powder Technology</i> , 2017, 305, 347-356.	2.1	40
76	Reactive mass transfer at gas-liquid interfaces: impact of micro-scale fluid dynamics on yield and selectivity of liquid-phase cyclohexane oxidation. <i>Chemical Engineering Science</i> , 2003, 58, 3961-3971.	1.9	39
77	DNS-based prediction of the selectivity of fast multiphase reactions: Hydrogenation of nitroarenes. <i>Chemical Engineering Science</i> , 2008, 63, 3279-3291.	1.9	39
78	RTD-based material tracking in a fully-continuous dry granulation tableting line. <i>International Journal of Pharmaceutics</i> , 2018, 547, 469-479.	2.6	39
79	Modeling a seeded continuous crystallizer for the production of active pharmaceutical ingredients. <i>Crystal Research and Technology</i> , 2014, 49, 92-108.	0.6	37
80	Carrier-based dry powder inhalation: Impact of carrier modification on capsule filling processability and in vitro aerodynamic performance. <i>International Journal of Pharmaceutics</i> , 2015, 491, 231-242.	2.6	37
81	The effect of saliva on the fate of nanoparticles. <i>Clinical Oral Investigations</i> , 2018, 22, 929-940.	1.4	37
82	In-Line Monitoring of a Pharmaceutical Pan Coating Process by Optical Coherence Tomography. <i>Journal of Pharmaceutical Sciences</i> , 2015, 104, 2531-2540.	1.6	36
83	Modeling of aerated stirred tanks with shear-thinning power law liquids. <i>International Journal of Heat and Fluid Flow</i> , 2012, 36, 153-166.	1.1	35
84	Adsorption of heavy metal cations by organic ligands grafted on porous materials. <i>Microporous and Mesoporous Materials</i> , 2009, 118, 251-257.	2.2	34
85	Experimental characterization and modeling of twin-screw extruder elements for pharmaceutical hot melt extrusion. <i>AIChE Journal</i> , 2013, 59, 4440-4450.	1.8	34
86	Modeling of an Active Tablet Coating Process. <i>Journal of Pharmaceutical Sciences</i> , 2015, 104, 4082-4092.	1.6	34
87	Highly dispersible polymer-coated silver Nanoparticles. <i>Surface and Coatings Technology</i> , 2009, 203, 2841-2844.	2.2	33
88	Euler-Lagrange modeling of a gas-liquid stirred reactor with consideration of bubble breakage and coalescence. <i>AIChE Journal</i> , 2012, 58, 1356-1370.	1.8	33
89	Rigorous modeling of CO ₂ absorption and chemisorption: The influence of bubble coalescence and breakage. <i>Chemical Engineering Science</i> , 2015, 137, 188-204.	1.9	33
90	Crystal Shape Modification via Cycles of Growth and Dissolution in a Tubular Crystallizer. <i>Crystal Growth and Design</i> , 2018, 18, 4403-4415.	1.4	33

#	ARTICLE	IF	CITATIONS
91	Spatially resolved monitoring of powder mixing processes via multiple NIR-probes. Powder Technology, 2013, 243, 161-170.	2.1	32
92	In-line implementation of an image-based particle size measurement tool to monitor hot-melt extruded pellets. International Journal of Pharmaceutics, 2014, 466, 181-189.	2.6	32
93	A novel tool to standardize rheology testing of molten polymers for pharmaceutical applications. International Journal of Pharmaceutics, 2015, 495, 474-481.	2.6	32
94	Analysis of flow and mixing in screw elements of corotating twin-screw extruders via SPH. AICHE Journal, 2017, 63, 2451-2463.	1.8	31
95	Mass-transfer enhancement by static mixers in a wall-coated catalytic reactor. Chemical Engineering Science, 2003, 58, 1063-1070.	1.9	30
96	Characterization of the localized hydrodynamic shear forces and dissolved oxygen distribution in sparged bioreactors. Biotechnology and Bioengineering, 2007, 97, 317-331.	1.7	29
97	Optimization of the inter-tablet coating uniformity for an active coating process at lab and pilot scale. International Journal of Pharmaceutics, 2013, 457, 1-8.	2.6	29
98	Mixing and Dissolution Processes of Pharmaceutical Bulk Materials in Stirred Tanks: Experimental and Numerical Investigations. Industrial & Engineering Chemistry Research, 2011, 50, 12011-12025.	1.8	28
99	Effect of particle shape in grinding mills using a GPU based DEM code. Minerals Engineering, 2018, 129, 71-84.	1.8	28
100	Shedding light on coatings: Real-time monitoring of coating quality at industrial scale. International Journal of Pharmaceutics, 2019, 566, 57-66.	2.6	28
101	Efficient bifurcation analysis of periodically-forced distributed parameter systems. Computers and Chemical Engineering, 2000, 24, 139-152.	2.0	27
102	Base- and ligand-free heterogeneously catalyzed homocoupling of arylboronic acids. Journal of Molecular Catalysis A, 2008, 285, 14-19.	4.8	27
103	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
104	A novel method for modeling of complex wall geometries in smoothed particle hydrodynamics. Computer Physics Communications, 2014, 185, 2436-2448.	3.0	27
105	A model to predict liquid bridge formation between wet particles based on direct numerical simulations. AICHE Journal, 2016, 62, 1877-1897.	1.8	27
106	Computational Fluid Dynamics-Discrete Element Method Modeling of an Industrial-Scale Wurster Coater. Journal of Pharmaceutical Sciences, 2019, 108, 538-550.	1.6	27
107	Titanocene-Catalyzed Hydrosilylation of Imines: Experimental and Computational Investigations of the Catalytically Active Species. Organometallics, 2009, 28, 2546-2553.	1.1	26
108	Flow and mixing of granular material over a single blade. Powder Technology, 2012, 226, 199-212.	2.1	26

#	ARTICLE	IF	CITATIONS
109	Regimes of liquid transport through sheared beds of inertial smooth particles. Powder Technology, 2014, 264, 377-395.	2.1	26
110	Local gas holdup simulation and validation of industrial-scale aerated bioreactors. Chemical Engineering Science, 2016, 152, 636-648.	1.9	26
111	Continuous feeding of low-dose APIs via periodic micro dosing. International Journal of Pharmaceutics, 2016, 509, 123-134.	2.6	26
112	An investigation of the hydrodynamic similarity of single-spout fluidized beds using CFD-DEM simulations. Advanced Powder Technology, 2017, 28, 2465-2481.	2.0	26
113	A combined DEM & FEM approach for modelling roll compaction process. Powder Technology, 2018, 337, 3-16.	2.1	26
114	Material tracking in a continuous direct capsule-filling process via residence time distribution measurements. International Journal of Pharmaceutics, 2018, 550, 347-358.	2.6	26
115	The effect of liquid bridge model details on the dynamics of wet fluidized beds. AIChE Journal, 2018, 64, 437-456.	1.8	25
116	A risk management ontology for Quality-by-Design based on a new development approach according GAMP 5.0. Expert Systems With Applications, 2012, 39, 7291-7301.	4.4	24
117	Characterization of a Laboratory-Scale Container for Freezing Protein Solutions with Detailed Evaluation of a Freezing Process Simulation. Journal of Pharmaceutical Sciences, 2014, 103, 417-426.	1.6	24
118	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
119	Powder flow and mixing in different tablet press feed frames. Advanced Powder Technology, 2020, 31, 770-781.	2.0	24
120	Thinking continuously: a microreactor for the production and scale-up of biodegradable, self-assembled nanoparticles. Polymer Chemistry, 2013, 4, 2342.	1.9	23
121	The effects of material attributes on capsule fill weight and weight variability in dosator nozzle machines. International Journal of Pharmaceutics, 2014, 471, 332-338.	2.6	23
122	Continuous monitoring of API content, API distribution and crushing strength after tableting via near-infrared chemical imaging. International Journal of Pharmaceutics, 2017, 518, 130-137.	2.6	23
123	Measurement of granule layer thickness in a spouted bed coating process via optical coherence tomography. Powder Technology, 2019, 356, 139-147.	2.1	23
124	Effects of hydrodynamics and Lagrangian transport on chemically reacting bubble flows. Chemical Engineering Science, 2004, 59, 3907-3927.	1.9	22
125	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
126	Impulse-based dynamics for studying quasi-static granular flows: Application to hopper emptying of non-spherical particles. Powder Technology, 2017, 313, 353-360.	2.1	22

#	ARTICLE	IF	CITATIONS
127	Formulation performance and processability window for manufacturing a dual-polymer amorphous solid dispersion via hot-melt extrusion and strand pelletization. <i>International Journal of Pharmaceutics</i> , 2018, 553, 408-421.	2.6	22
128	How to measure coating thickness of tablets: Method comparison of optical coherence tomography, near-infrared spectroscopy and weight-, height- and diameter gain. <i>European Journal of Pharmaceutics and Biopharmaceutics</i> , 2019, 142, 344-352.	2.0	22
129	Estimating inter-patient variability of dispersion in dry powder inhalers using CFD-DEM simulations. <i>European Journal of Pharmaceutical Sciences</i> , 2021, 156, 105574.	1.9	22
130	The Engineering of Hydrogen Peroxide Decontamination Systems. <i>Journal of Pharmaceutical Innovation</i> , 2009, 4, 51-62.	1.1	21
131	Evaluation of Parameter Estimation Methods for Crystallization Processes Modeled via Population Balance Equations. <i>Chemical Engineering Research and Design</i> , 2015, 94, 275-289.	2.7	21
132	Extended validation and verification of XPS/AVL-Fireâ„¢, a computational CFD-DEM software platform. <i>Powder Technology</i> , 2020, 361, 880-893.	2.1	21
133	Lyophilized protein powders: A review of analytical tools for root cause analysis of lot-to-lot variability. <i>TrAC - Trends in Analytical Chemistry</i> , 2016, 82, 468-491.	5.8	20
134	Relative Contributions of Solubility and Mobility to the Stability of Amorphous Solid Dispersions of Poorly Soluble Drugs: A Molecular Dynamics Simulation Study. <i>Pharmaceutics</i> , 2018, 10, 101.	2.0	20
135	Understanding the motion of hard-shell capsules in dry powder inhalers. <i>International Journal of Pharmaceutics</i> , 2019, 567, 118481.	2.6	20
136	Adaptive multiscale solution of dynamical systems in chemical processes using wavelets. <i>Computers and Chemical Engineering</i> , 2003, 27, 131-142.	2.0	19
137	Effect of bubble-particle interaction models on flow predictions in three-phase bubble columns. <i>Chemical Engineering Science</i> , 2016, 146, 226-243.	1.9	19
138	Development of an Abuse- and Alcohol-Resistant Formulation Based on Hot-Melt Extrusion and Film Coating. <i>AAPS PharmSciTech</i> , 2016, 17, 68-77.	1.5	19
139	Modeling yield properties of compacted powder using a multi-particle finite element model with cohesive contacts. <i>Powder Technology</i> , 2018, 336, 426-440.	2.1	19
140	A novel framework for a rational, fully-automatised calibration routine for DEM models of cohesive powders. <i>Powder Technology</i> , 2020, 361, 687-703.	2.1	19
141	Enantioselective Hydrogenations with Chiral Titanocenes. <i>Molecules</i> , 2005, 10, 587-619.	1.7	18
142	A novel design for hot-melt extrusion pelletizers. <i>Chemical Engineering Science</i> , 2010, 65, 1976-1988.	1.9	18
143	Quantifying Absorption Effects during Hydrogen Peroxide Decontamination. <i>Journal of Pharmaceutical Innovation</i> , 2011, 6, 202-216.	1.1	18
144	The effect of capsule-filling machine vibrations on average fill weight. <i>International Journal of Pharmaceutics</i> , 2013, 454, 381-387.	2.6	18

#	ARTICLE	IF	CITATIONS
145	Automated pharmaceutical tablet coating layer evaluation of optical coherence tomography images. <i>Measurement Science and Technology</i> , 2015, 26, 035701.	1.4	18
146	Injection molding as a one-step process for the direct production of pharmaceutical dosage forms from primary powders. <i>International Journal of Pharmaceutics</i> , 2016, 505, 341-351.	2.6	18
147	Developing HME-Based Drug Products Using Emerging Science: a Fast-Track Roadmap from Concept to Clinical Batch. <i>AAPS PharmSciTech</i> , 2020, 21, 176.	1.5	18
148	Prediction of mass transfer coefficients in non-Newtonian fermentation media using first-principles methods. <i>Biotechnology and Bioengineering</i> , 2007, 97, 1329-1334.	1.7	17
149	In-line measurement of residence time distribution in melt extrusion via video analysis. <i>Polymer Engineering and Science</i> , 2018, 58, 170-179.	1.5	17
150	Ensuring tablet quality via model-based control of a continuous direct compaction process. <i>International Journal of Pharmaceutics</i> , 2019, 567, 118457.	2.6	17
151	Towards a novel continuous HME-Tableting line: Process development and control concept. <i>European Journal of Pharmaceutical Sciences</i> , 2020, 142, 105097.	1.9	17
152	Predicting the Effect of Drying on Supported Coimpregnation Catalysts. <i>Industrial & Engineering Chemistry Research</i> , 2001, 40, 3989-3999.	1.8	16
153	Ibuprofen-Loaded Calcium Stearate Pellets: Drying-Induced Variations in Dosage Form Properties. <i>AAPS PharmSciTech</i> , 2012, 13, 686-698.	1.5	16
154	Quantitative on-line vs. off-line NIR analysis of fluidized bed drying with consideration of the spectral background. <i>European Journal of Pharmaceutics and Biopharmaceutics</i> , 2013, 85, 1064-1074.	2.0	16
155	Accuracy of micro powder dosing via a vibratory sieve-chute system. <i>European Journal of Pharmaceutics and Biopharmaceutics</i> , 2015, 94, 264-272.	2.0	16
156	Continuous Suzuki-Miyaura reactions with novel Ce-Sn-Pd oxides and integrated crystallization as continuous downstream protocol. <i>Journal of Flow Chemistry</i> , 2016, 6, 244-251.	1.2	16
157	Efficient Discrete Element Method Simulation Strategy for Analyzing Large-Scale Agitated Powder Mixers. <i>Chemie-Ingenieur-Technik</i> , 2017, 89, 995-1005.	0.4	16
158	The effect of material attributes and process parameters on the powder bed uniformity during a low-dose dosator capsule filling process. <i>International Journal of Pharmaceutics</i> , 2017, 516, 9-20.	2.6	16
159	At-line validation of optical coherence tomography as in-line/at-line coating thickness measurement method. <i>International Journal of Pharmaceutics</i> , 2019, 572, 118766.	2.6	16
160	Micromixing in Reactive, Deformable Bubble and Droplet Swarms. <i>Chemical Engineering and Technology</i> , 2006, 29, 13-23.	0.9	15
161	Drying of Ni/Alumina Catalysts: Control of the Metal Distribution Using Surfactants and the Melt Infiltration Method. <i>Industrial & Engineering Chemistry Research</i> , 2014, 53, 5792-5800.	1.8	15
162	The effects of powder compressibility, speed of capsule filling and pre-compression on plug densification. <i>International Journal of Pharmaceutics</i> , 2014, 471, 182-188.	2.6	15

#	ARTICLE	IF	CITATIONS
163	Continuous Processing of Active Pharmaceutical Ingredients Suspensions via Dynamic Cross-Flow Filtration. <i>Journal of Pharmaceutical Sciences</i> , 2015, 104, 3481-3489.	1.6	15
164	Comparison of video analysis and simulations of a drum coating process. <i>European Journal of Pharmaceutical Sciences</i> , 2017, 104, 72-81.	1.9	15
165	Micro-feeding and dosing of powders via a small-scale powder pump. <i>International Journal of Pharmaceutics</i> , 2017, 519, 314-322.	2.6	15
166	Drug-Excipient Interactions in the Solid State: The Role of Different Stress Factors. <i>Molecular Pharmaceutics</i> , 2017, 14, 4560-4571.	2.3	15
167	A novel in silico scale-up approach for hot melt extrusion processes. <i>Chemical Engineering Science</i> , 2019, 204, 257-269.	1.9	15
168	Particle-level residence time data in a twin-screw feeder. <i>Data in Brief</i> , 2019, 27, 104672.	0.5	15
169	A solution for low-dose feeding in continuous pharmaceutical processes. <i>International Journal of Pharmaceutics</i> , 2020, 591, 119969.	2.6	15
170	Characteristic parameters and process maps for fully-filled twin-screw extruder elements. <i>Chemical Engineering Science</i> , 2021, 230, 116202.	1.9	15
171	Prediction of drug-packaging interactions via molecular dynamics (MD) simulations. <i>International Journal of Pharmaceutics</i> , 2012, 431, 26-32.	2.6	14
172	In-line quality control of moving objects by means of spectral-domain OCT. <i>Optics and Lasers in Engineering</i> , 2014, 59, 1-10.	2.0	14
173	NANEX: Process design and optimization. <i>International Journal of Pharmaceutics</i> , 2016, 506, 35-45.	2.6	14
174	Multi-methodological investigation of the variability of the microstructure of HPMC hard capsules. <i>International Journal of Pharmaceutics</i> , 2016, 511, 840-854.	2.6	14
175	Establishment of a Molding Procedure to Facilitate Formulation Development for Co-extrudates. <i>AAPS PharmSciTech</i> , 2017, 18, 2971-2976.	1.5	14
176	Mechanistic modeling of a capsule filling process. <i>International Journal of Pharmaceutics</i> , 2017, 532, 47-54.	2.6	14
177	Continuous Drying of Pharmaceutical Powders Using a Twin-Screw Extruder. <i>Organic Process Research and Development</i> , 2018, 22, 813-823.	1.3	14
178	Heat transfer of dry granular materials in a bladed mixer: Effect of thermal properties and agitation rate. <i>AIChE Journal</i> , 2020, 66, e16861.	1.8	14
179	Feeding of particle-based materials in continuous solid dosage manufacturing: a material science perspective. <i>Drug Discovery Today</i> , 2020, 25, 800-806.	3.2	14
180	Modeling the coating layer thickness in a pharmaceutical coating process. <i>European Journal of Pharmaceutical Sciences</i> , 2021, 161, 105770.	1.9	14

#	ARTICLE	IF	CITATIONS
181	Determining local residence time distributions in twin-screw extruder elements via smoothed particle hydrodynamics. <i>Chemical Engineering Science</i> , 2022, 247, 117029.	1.9	14
182	PAT implementation for advanced process control in solid dosage manufacturing – A practical guide. <i>International Journal of Pharmaceutics</i> , 2022, 613, 121408.	2.6	14
183	Selective alkylation and Suzuki coupling as an efficient strategy for introducing functional anchors to the ethylene-bis(indenyl) ligand. <i>Tetrahedron Letters</i> , 2005, 46, 1353-1356.	0.7	13
184	Small- and wide-angle X-ray scattering (SWAXS) for quantification of aspirin content in a binary powder mixture. <i>International Journal of Pharmaceutics</i> , 2012, 428, 91-95.	2.6	13
185	Coalescence and Break-Up in Bubble Columns: Euler-Lagrange Simulations Using a Stochastic Approach. <i>Chemie-Ingenieur-Technik</i> , 2013, 85, 1118-1130.	0.4	13
186	Use of mechanistic simulations as a quantitative risk-ranking tool within the quality by design framework. <i>International Journal of Pharmaceutics</i> , 2014, 475, 245-255.	2.6	13
187	Gluing Pills Technology: A novel route to multilayer tablet manufacturing. <i>International Journal of Pharmaceutics</i> , 2018, 548, 672-681.	2.6	13
188	Performance Characterization of Static Mixers in Precipitating Environments. <i>Organic Process Research and Development</i> , 2019, 23, 1308-1320.	1.3	13
189	The influence of faceted particle shapes on material dynamics in screw conveying. <i>Chemical Engineering Science</i> , 2021, 243, 116654.	1.9	13
190	Dynamic and steady-state features of a cooled countercurrent flow reactor. <i>AIChE Journal</i> , 2000, 46, 2030-2040.	1.8	12
191	Detailed analysis of air flow and spray loss in a pharmaceutical coating process. <i>AIChE Journal</i> , 2012, 58, 399-411.	1.8	12
192	Development of a design space and predictive statistical model for capsule filling of low-fill-weight inhalation products. <i>Drug Development and Industrial Pharmacy</i> , 2016, 42, 221-230.	0.9	12
193	End-Point Prediction of Granule Moisture in a ConsiGma™-25 Segmented Fluid Bed Dryer. <i>Pharmaceutics</i> , 2020, 12, 452.	2.0	12
194	Validating a Numerical Simulation of the ConsiGma(R) Coater. <i>AAPS PharmSciTech</i> , 2021, 22, 10.	1.5	12
195	Continuous mixing technology: Validation of a DEM model. <i>International Journal of Pharmaceutics</i> , 2021, 608, 121065.	2.6	12
196	Analysis of heterogeneously catalyzed reactions close to bubbles. <i>AIChE Journal</i> , 2005, 51, 1482-1496.	1.8	11
197	UV-induced immobilization of tethered zirconocenes on H-terminated silicon surfaces. <i>Chemical Communications</i> , 2008, , 1329.	2.2	11
198	Multiphase flow and mixing in dilute bubble swarms. <i>AIChE Journal</i> , 2010, 56, 2421-2445.	1.8	11

#	ARTICLE	IF	CITATIONS
199	Evaluation of the tablets'™ surface flow velocities in pan coaters. <i>European Journal of Pharmaceutics and Biopharmaceutics</i> , 2016, 106, 97-106.	2.0	11
200	Measuring bulk density variations in a moving powder bed via terahertz in-line sensing. <i>Powder Technology</i> , 2019, 344, 152-160.	2.1	11
201	Ascertain a minimum coating thickness for acid protection of enteric coatings by means of optical coherence tomography. <i>International Journal of Pharmaceutics</i> , 2022, 618, 121680.	2.6	11
202	Functionalized nanoporous carbon as a catalyst for Suzuki coupling reactions. <i>Microporous and Mesoporous Materials</i> , 2007, 101, 342-347.	2.2	10
203	Modeling and simulation of polyacrylic acid/protamine nanoparticle precipitation. <i>Soft Matter</i> , 2011, 7, 9484.	1.2	10
204	Continuous API-crystal coating via coacervation in a tubular reactor. <i>International Journal of Pharmaceutics</i> , 2014, 475, 198-207.	2.6	10
205	Comparing particle size distributions of an arbitrary shape. <i>Powder Technology</i> , 2016, 294, 134-145.	2.1	10
206	Dynamic cross-flow filtration: enhanced continuous small-scale solid-liquid separation. <i>Drug Development and Industrial Pharmacy</i> , 2016, 42, 977-984.	0.9	10
207	Characterization of the coating and tablet core roughness by means of 3D optical coherence tomography. <i>International Journal of Pharmaceutics</i> , 2018, 536, 459-466.	2.6	10
208	Prediction of the anisotropic mechanical properties of compacted powders. <i>Powder Technology</i> , 2019, 345, 589-600.	2.1	10
209	Performance Evaluation of a High-Precision Low-Dose Powder Feeder. <i>AAPS PharmSciTech</i> , 2020, 21, 301.	1.5	10
210	Near-Infrared Hyperspectral Imaging as a Monitoring Tool for On-Demand Manufacturing of Inkjet-Printed Formulations. <i>AAPS PharmSciTech</i> , 2021, 22, 211.	1.5	10
211	Synthesis of a novel ethylene-bis(tetrahydroindenyl) ligand containing a functionalized four-carbon tether. <i>Tetrahedron Letters</i> , 2003, 44, 4095-4098.	0.7	9
212	Mass transfer and chemical reactions in reactive deformable bubble swarms. <i>Applied Physics Letters</i> , 2006, 88, 134102.	1.5	9
213	The Influence of Process Parameters on the Properties of PLGA'™ Microparticles Produced by the Emulsion Extraction Method. <i>AIChE Journal</i> , 2013, 59, 1868-1881.	1.8	9
214	Fast real-time monitoring of entacapone crystallization and characterization of polymorphs via Raman spectroscopy, statistics and SWAXS. <i>Acta Pharmaceutica</i> , 2014, 64, 1-13.	0.9	9
215	Continuous Drying of Small Particles for Pharmaceutical Applications'™ An Evaluation of Selected Lab-Scale Systems. <i>Organic Process Research and Development</i> , 2015, 19, 2055-2066.	1.3	9
216	Specific surface, crystallinity, and dissolution of lyophilized fibrinogen. A study by combined small- and wide-angle X-ray scattering (SWAXS). <i>European Journal of Pharmaceutics and Biopharmaceutics</i> , 2015, 89, 374-382.	2.0	9

#	ARTICLE	IF	CITATIONS
217	A Continuous Operation Concept for a Rotary Tablet Press Using Mass Flow Operating Points. <i>Chemie-Ingenieur-Technik</i> , 2017, 89, 1006-1016.	0.4	9
218	Spatially Resolved Spectral Powder Analysis: Experiments and Modeling. <i>Applied Spectroscopy</i> , 2018, 72, 521-534.	1.2	9
219	Model-based approach to the design of pharmaceutical roller-compaction processes. <i>International Journal of Pharmaceutics: X</i> , 2019, 1, 100005.	1.2	9
220	Model predictive control for continuous pharmaceutical feeding blending units. <i>Chemical Engineering Research and Design</i> , 2020, 154, 101-114.	2.7	9
221	Impact of powder composition on processing-relevant properties of pharmaceutical materials: An experimental study. <i>Advanced Powder Technology</i> , 2020, 31, 2991-3003.	2.0	9
222	Hot Melt Extrusion as a Continuous Pharmaceutical Manufacturing Process. <i>AAPS Advances in the Pharmaceutical Sciences Series</i> , 2013, , 363-396.	0.2	9
223	Carrier particle emission and dispersion in transient CFD-DEM simulations of a capsule-based DPI. <i>European Journal of Pharmaceutical Sciences</i> , 2022, 168, 106073.	1.9	9
224	Efficient surface functionalization of zeolites via esterification. <i>Microporous and Mesoporous Materials</i> , 2006, 92, 101-108.	2.2	8
225	Tethered ansa-bridged titanium complexes immobilized on 3-mercaptopropyl-functionalized silica gel and their application for the hydrosilylation of imines. <i>Dalton Transactions</i> , 2012, 41, 12711.	1.6	8
226	Potential of Raman Spectroscopy for Evaluating Crushing Strength of Tablets. <i>Journal of Pharmaceutical Innovation</i> , 2012, 7, 76-86.	1.1	8
227	Automatic Correction for Window Fouling of near Infrared Probes in Fluidised Systems. <i>Journal of Near Infrared Spectroscopy</i> , 2014, 22, 229-238.	0.8	8
228	Designed Blending for Near Infrared Calibration. <i>Journal of Pharmaceutical Sciences</i> , 2015, 104, 2312-2322.	1.6	8
229	The Plug & Play Reactor: A Highly Flexible Device for Heterogeneous Reactions in Continuous Flow. <i>Chemie-Ingenieur-Technik</i> , 2016, 88, 1518-1523.	0.4	8
230	Sensitivity analysis of a pharmaceutical tablet production process from the control engineering perspective. <i>International Journal of Pharmaceutics</i> , 2017, 517, 373-382.	2.6	8
231	Rapid automated process development of a continuous capsule-filling process. <i>International Journal of Pharmaceutics</i> , 2018, 546, 154-165.	2.6	8
232	Residence time distribution of a continuously-operated capsule filling machine: Development of a measurement technique and comparison of three volume-reducing inserts. <i>International Journal of Pharmaceutics</i> , 2018, 550, 180-189.	2.6	8
233	Deformable and breakable DEM particle clusters for modelling compression of plastic and brittle porous materials " Model and structure properties. <i>Powder Technology</i> , 2020, 368, 90-104.	2.1	8
234	Analysis of the complex nonlinear behavior of reacting bubble flows: steady-state multiplicity. <i>Chemical Engineering Science</i> , 2004, 59, 5575-5585.	1.9	7

#	ARTICLE	IF	CITATIONS
235	Modification of zeolite surfaces by Grignard reagent. <i>Journal of Porous Materials</i> , 2006, 13, 5-11.	1.3	7
236	Structure-Function-Performance Relationship of Bis(cyclopentadienyl)-Based Group 4 Metallocenes: A DFT Study. <i>Organometallics</i> , 2008, 27, 5196-5202.	1.1	7
237	Use of the Direct Compression Aid Ludiflash® for the preparation of pellets via wet extrusion/spheronization. <i>Drug Development and Industrial Pharmacy</i> , 2011, 37, 1231-1243.	0.9	7
238	Microstructure of Calcium Stearate Matrix Pellets: A Function of the Drying Process. <i>Journal of Pharmaceutical Sciences</i> , 2013, 102, 3987-3997.	1.6	7
239	The influence of residual water on the solid-state properties of freeze-dried fibrinogen. <i>European Journal of Pharmaceutics and Biopharmaceutics</i> , 2015, 91, 1-8.	2.0	7
240	The influence of residual water on the secondary structure and crystallinity of freeze-dried fibrinogen. <i>International Journal of Pharmaceutics</i> , 2015, 484, 95-102.	2.6	7
241	Liquid transport rates during binary collisions of unequally-sized particles. <i>Powder Technology</i> , 2017, 309, 95-109.	2.1	7
242	Study of a low-dose capsule filling process by dynamic and static tests for advanced process understanding. <i>International Journal of Pharmaceutics</i> , 2018, 540, 22-30.	2.6	7
243	Sensitivity of a continuous hot-melt extrusion and strand pelletization line to control actions and composition variation. <i>International Journal of Pharmaceutics</i> , 2019, 566, 239-253.	2.6	7
244	Novel Cleaning-in-Place Strategies for Pharmaceutical Hot Melt Extrusion. <i>Pharmaceutics</i> , 2020, 12, 588.	2.0	7
245	Comparing freeze drying and spray drying of interleukins using model protein CXCL8 and its variants. <i>European Journal of Pharmaceutics and Biopharmaceutics</i> , 2021, 168, 152-165.	2.0	7
246	A Two-Step Method to Covalently Bind Biomolecules to Group-IV Semiconductors: Si(111)/1,2-Epoxy-9-decene/Esterase. <i>Langmuir</i> , 2008, 24, 13957-13961.	1.6	6
247	Fast Reactions in Bubbly Flows: Film Model and Micromixing Effects. <i>Industrial & Engineering Chemistry Research</i> , 2010, 49, 10715-10729.	1.8	6
248	DOE-Based CFD Optimization of Pharmaceutical Mixing Processes. <i>Journal of Pharmaceutical Innovation</i> , 2012, 7, 181-194.	1.1	6
249	Continuous low-dose feeding of highly active pharmaceutical ingredients in hot-melt extrusion. <i>Drug Development and Industrial Pharmacy</i> , 2016, 42, 1360-1364.	0.9	6
250	Characterization of a Novel Drying Technology for Continuous Processing of Cohesive Materials: An Ibuprofen Case Study. <i>Organic Process Research and Development</i> , 2021, 25, 769-780.	1.3	6
251	Scale up of heat transfer for dry granular material in a cylindrical bladed mixer. <i>Powder Technology</i> , 2021, 385, 336-347.	2.1	6
252	Vibratory mixing of pharmaceutical powders on a single-tablet-scale. <i>Powder Technology</i> , 2021, 387, 385-395.	2.1	6

#	ARTICLE	IF	CITATIONS
253	Scale-up and flow behavior of cohesive granular material in a four-bladed mixer: effect of system and particle size. <i>Advanced Powder Technology</i> , 2021, 32, 4481-4495.	2.0	6
254	Maximum temperature in a reverse-flow reactor with two independent reactions. <i>Chemical Engineering Science</i> , 1997, 52, 2483-2495.	1.9	5
255	Investigation of Migrantâ€™Polymer Interaction in Pharmaceutical Packaging Material Using the Linear Interaction Energy Algorithm. <i>Journal of Pharmaceutical Sciences</i> , 2014, 103, 3197-3204.	1.6	5
256	An Overview of Pharmaceutical Manufacturing for Solid Dosage Forms. <i>Methods in Pharmacology and Toxicology</i> , 2016, , 311-383.	0.1	5
257	Automation of a dosing-disc capsule filler from the perspective of reliability and safety. <i>Drug Development and Industrial Pharmacy</i> , 2018, 44, 502-510.	0.9	5
258	Study of the capsule-filling dosator process via calibrated DEM simulations. <i>International Journal of Pharmaceutics</i> , 2019, 567, 118441.	2.6	5
259	Drying of supported catalysts for high metal concentrations: A reduced parameter model. <i>Chemical Engineering Science</i> , 2019, 206, 361-374.	1.9	5
260	Deep convolutional neural networks: Outperforming established algorithms in the evaluation of industrial optical coherence tomography (OCT) images of pharmaceutical coatings. <i>International Journal of Pharmaceutics: X</i> , 2020, 2, 100058.	1.2	5
261	Characterization of the gas dispersion behavior of multiple impeller stages by flow regime analysis and CFD simulations. <i>Biotechnology and Bioengineering</i> , 2021, 118, 3058-3068.	1.7	5
262	Feasibility of In-line monitoring of critical coating quality attributes via OCT: Thickness, variability, film homogeneity and roughness. <i>International Journal of Pharmaceutics: X</i> , 2021, 3, 100067.	1.2	5
263	Influence of Particle Properties on the Yield and Selectivity of Fast Heterogeneously Catalyzed Gas-Liquid Reactions. <i>International Journal of Chemical Reactor Engineering</i> , 2003, 1, .	0.6	4
264	Photochemical Remediation of Tetrachloroethylene: Reactor Design, Construction, and Preliminary Results. <i>Journal of Environmental Engineering, ASCE</i> , 2004, 130, 100-103.	0.7	4
265	Numerical modeling of contaminant transport resulting from dissolution of a coal-tar pool in an experimental aquifer. <i>Hydrogeology Journal</i> , 2007, 15, 705-714.	0.9	4
266	Effect of Technically Relevant X-Ray Doses on the Structure and Function of Alcohol Dehydrogenase and Hen Egg-White Lysozyme. <i>Pharmaceutical Research</i> , 2018, 35, 135.	1.7	4
267	Fifty-Eight Years and Counting: High-Impact Publishing in Computational Pharmaceutical Sciences and Mechanism-Based Modeling. <i>Journal of Pharmaceutical Sciences</i> , 2019, 108, 2-7.	1.6	4
268	Improving Pellet Quality in a Pharmaceutical Hot Melt Extrusion Process via PID Control and LOLIMOT-Based MPC. <i>Journal of Pharmaceutical Innovation</i> , 2020, 15, 678-689.	1.1	4
269	Towards predicting the product quality in hot-melt extrusion: Small scale extrusion. <i>International Journal of Pharmaceutics: X</i> , 2020, 2, 100062.	1.2	4
270	LBM for two-phase (bio-)reactors. <i>Advances in Chemical Engineering</i> , 2020, 55, 219-285.	0.5	4

#	ARTICLE	IF	CITATIONS
271	Fluidization characterization in the ConSigma 25 dryer via process data – A method of advanced quality assurance in continuous manufacturing. <i>International Journal of Pharmaceutics</i> , 2021, 607, 121041.	2.6	4
272	Infrared Temperature Measurements and DEM Simulations of Heat Transfer in a Bladed Mixer. <i>AIChE Journal</i> , , .	1.8	4
273	Can Liposomes Survive Inkjet Printing? The Effect of Jetting on Key Liposome Attributes for Drug Delivery Applications. <i>Journal of Pharmaceutical Innovation</i> , 2023, 18, 497-505.	1.1	4
274	Unsupervised real-time evaluation of optical coherence tomography (OCT) images of solid oral dosage forms. <i>Journal of Real-Time Image Processing</i> , 2022, 19, 881-892.	2.2	4
275	Crystallization of APIs in a Continuously Seeded Tubular Crystallizer. <i>Scientia Pharmaceutica</i> , 2010, 78, 664-664.	0.7	3
276	Continuous powder flow monitoring via near-infrared hyperspectral imaging. , 2012, , .		3
277	Why hot melts do not stick to cold surfaces. <i>Polymer Engineering and Science</i> , 2017, 57, 1083-1089.	1.5	3
278	Predicting capsule fill weight from in-situ powder density measurements using terahertz reflection technology. <i>International Journal of Pharmaceutics: X</i> , 2019, 1, 100004.	1.2	3
279	Towards predicting the product quality in hot-melt extrusion: Pilot plant scale extrusion. <i>International Journal of Pharmaceutics: X</i> , 2021, 3, 100084.	1.2	3
280	LIF or dye: Comparison of different tracing methods for granular solids. <i>Powder Technology</i> , 2020, 367, 20-31.	2.1	3
281	Comparative Study of a Novel Micro-feeder and Loss-in-weight Feeders. <i>Journal of Pharmaceutical Innovation</i> , 2022, 17, 1205-1214.	1.1	3
282	The boiling slurry reactor: Axial dispersion model. <i>Chemical Engineering Science</i> , 1999, 54, 5021-5029.	1.9	2
283	Retention-time prediction for polycyclic aromatic compounds in reversed-phase capillary electro-chromatography. <i>Journal of Molecular Modeling</i> , 2015, 21, 124.	0.8	2
284	BlazeDEM3D-GPU A Large Scale DEM simulation code for GPUs. <i>EPJ Web of Conferences</i> , 2017, 140, 06025.	0.1	2
285	Using online content uniformity measurements for rapid automated process development exemplified via an X-ray system. <i>Pharmaceutical Development and Technology</i> , 2019, 24, 775-787.	1.1	2
286	The need for new control strategies for particulate matter in parenterals. <i>Pharmaceutical Development and Technology</i> , 2019, 24, 739-750.	1.1	2
287	Development of a Controlled Continuous Low-Dose Feeding Process. <i>AAPS PharmSciTech</i> , 2021, 22, 247.	1.5	2
288	Analyzing the Effect of Using Axial Impellers in Large-Scale Bioreactors. <i>Biotechnology and Bioengineering</i> , 0, , .	1.7	2

#	ARTICLE	IF	CITATIONS
289	Scale-up of granular material flow in an agitated filter dryer. Powder Technology, 2022, 407, 117684.	2.1	2
290	Use of Oxirane Ring-Opening Reactions for Synthesis of Ethylene-bis(indenyl) Ligands Containing Alkene Tethers. Synlett, 2005, 2005, 0797-0800.	1.0	1
291	Optical coherence tomography for non-destructive analysis of coatings in pharmaceutical tablets. Proceedings of SPIE, 2013, , .	0.8	1
292	Real-time data processing for in-line monitoring of a pharmaceutical coating process by optical coherence tomography. , 2014, , .		1
293	Preface of EuPAT 7 Special Issue - Inventing Tomorrow's Development and Manufacturing. European Journal of Pharmaceutical Sciences, 2016, 90, 1.	1.9	1
294	Deriving control parameter settings from process models to control capsule fillers integrated into continuous manufacturing. Drug Development and Industrial Pharmacy, 2019, 45, 1523-1536.	0.9	1
295	Shedding light on the unseen: advanced sensing and control solutions to unlock better-coated drug product quality. Expert Opinion on Drug Delivery, 2020, 17, 1177-1180.	2.4	1
296	Runtime Maximization of Continuous Precipitation in an Ultrasonic Process Chamber. Organic Process Research and Development, 2020, 24, 508-519.	1.3	1
297	Single-crystal Drying: Development of a Continuous Drying Prototype to Optimize Particle Flow and Residence Time Distribution. Journal of Pharmaceutical Innovation, 2022, 17, 979-992.	1.1	1
298	Efficient Bifurcation Analysis of Forced Periodic Processes. , 1999, , 12-25.		1
299	Particle-loaded monolithic materials for separations via planar electrochromatography. Journal of Planar Chromatography - Modern TLC, 2016, 29, 15-21.	0.6	1
300	X-ray imaging: A potential enabler of automated particulate detection and cake-structure analysis in lyophilized products?. International Journal of Pharmaceutics: X, 2021, 3, 100101.	1.2	1
301	New stability analysis based on iterative sampling and optimization. AIChE Journal, 2002, 48, 187-192.	1.8	0
302	Synthesis of a Novel Ethylene-bis(tetrahydroindenyl) Ligand Containing a Functionalized Four-Carbon Tether.. ChemInform, 2003, 34, no.	0.1	0
303	Bubble Column Slurry Reactors - Towards Detailed LES of these Gas/Solid/Liquid Systems. Chemie-Ingenieur-Technik, 2010, 82, 1350-1351.	0.4	0
304	Measuring the Mixing Rate in Bladed Mixers. Scientia Pharmaceutica, 2010, 78, 563-563.	0.7	0
305	Simulation Studies for the Effects of Particle Size and Blade Rake Angle on Particle Mixing. Scientia Pharmaceutica, 2010, 78, 633-633.	0.7	0
306	IPPE-TU Graz: green engineering inside and beyond the borders of process technology. Green Processing and Synthesis, 2015, 4, .	1.3	0

#	ARTICLE	IF	CITATIONS
307	Filling of lactose-based formulations in a tamping-pin capsule filler. Drug Development and Industrial Pharmacy, 2020, 46, 775-787.	0.9	0
308	Industrial-Scale Continuous Vacuum Drying of Active Pharmaceutical Ingredient Paste: Determination of the Process Window. Organic Process Research and Development, 0, , .	1.3	0