Johannes G Khinast

List of Publications by Year
in descending order

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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	Can Liposomes Survive Inkjet Printing? The Effect of Jetting on Key Liposome Attributes for Drug Delivery Applications. Journal of Pharmaceutical Innovation, 2023, 18, 497-505.	1.1	4
2	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
3	Determining local residence time distributions in twin-screw extruder elements via smoothed particle hydrodynamics. Chemical Engineering Science, 2022, 247, 117029.	1.9	14
4	Carrier particle emission and dispersion in transient CFD-DEM simulations of a capsule-based DPI. European Journal of Pharmaceutical Sciences, 2022, 168, 106073.	1.9	9
5	Comparative Study of a Novel Micro-feeder and Loss-in-weight Feeders. Journal of Pharmaceutical Innovation, 2022, 17, 1205-1214.	1.1	3
6	PAT implementation for advanced process control in solid dosage manufacturing â€“ A practical guide. International Journal of Pharmaceutics, 2022, 613, 121408.	2.6	14
7	Ascertain a minimum coating thickness for acid protection of enteric coatings by means of optical coherence tomography. International Journal of Pharmaceutics, 2022, 618, 121680.	2.6	11
8	Unsupervised real-time evaluation of optical coherence tomography (OCT) images of solid oral dosage forms. Journal of Real-Time Image Processing, 2022, 19, 881-892.	2.2	4
9	Scale-up of granular material flow in an agitated filter dryer. Powder Technology, 2022, 407, 117684.	2.1	2
10	Characteristic parameters and process maps for fully-filled twin-screw extruder elements. Chemical Engineering Science, 2021, 230, 116202.	1.9	15
11	Estimating inter-patient variability of dispersion in dry powder inhalers using CFD-DEM simulations. European Journal of Pharmaceutical Sciences, 2021, 156, 105574.	1.9	22
12	Validating a Numerical Simulation of the ConsiGma(R) Coater. AAPS PharmSciTech, 2021, 22, 10.	1.5	12
13	Characterization of a Novel Drying Technology for Continuous Processing of Cohesive Materials: An Ibuprofen Case Study. Organic Process Research and Development, 2021, 25, 769-780.	1.3	6
14	Characterization of the gas dispersion behavior of multiple impeller stages by flow regime analysis and CFD simulations. Biotechnology and Bioengineering, 2021, 118, 3058-3068.	1.7	5
15	Scale up of heat transfer for dry granular material in a cylindrical bladed mixer. Powder Technology, 2021, 385, 336-347.	2.1	6
16	Modeling the coating layer thickness in a pharmaceutical coating process. European Journal of Pharmaceutical Sciences, 2021, 161, 105770.	1.9	14
17	Vibratory mixing of pharmaceutical powders on a single-tablet-scale. Powder Technology, 2021, 387, 385-395.	2.1	6
18	Near-Infrared Hyperspectral Imaging as a Monitoring Tool for On-Demand Manufacturing of Inkjet-Printed Formulations. AAPS PharmSciTech, 2021, 22, 211.	1.5	10

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19	Fluidization characterization in the ConSigma 25 dryer via process data â€“ A method of advanced quality assurance in continuous manufacturing. International Journal of Pharmaceutics, 2021, 607, 121041.	2.6	4
20	Continuous mixing technology: Validation of a DEM model. International Journal of Pharmaceutics, 2021, 608, 121065.	2.6	12
21	Comparing freeze drying and spray drying of interleukins using model protein CXCL8 and its variants. European Journal of Pharmaceutics and Biopharmaceutics, 2021, 168, 152-165.	2.0	7
22	The influence of faceted particle shapes on material dynamics in screw conveying. Chemical Engineering Science, 2021, 243, 116654.	1.9	13
23	Feasibility of In-line monitoring of critical coating quality attributes via OCT: Thickness, variability, film homogeneity and roughness. International Journal of Pharmaceutics: X, 2021, 3, 100067.	1.2	5
24	Towards predicting the product quality in hot-melt extrusion: Pilot plant scale extrusion. International Journal of Pharmaceutics: X, 2021, 3, 100084.	1.2	3
25	Development of a Controlled Continuous Low-Dose Feeding Process. AAPS PharmSciTech, 2021, 22, 247.	1.5	2
26	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
27	Scale-up and flow behavior of cohesive granular material in a four-bladed mixer: effect of system and particle size. Advanced Powder Technology, 2021, 32, 4481-4495.	2.0	6
28	Towards a novel continuous HME-Tableting line: Process development and control concept. European Journal of Pharmaceutical Sciences, 2020, 142, 105097.	1.9	17
29	Improving Pellet Quality in a Pharmaceutical Hot Melt Extrusion Process via PID Control and LOLIMOT-Based MPC. Journal of Pharmaceutical Innovation, 2020, 15, 678-689.	1.1	4
30	Powder flow and mixing in different tablet press feed frames. Advanced Powder Technology, 2020, 31, 770-781.	2.0	24
31	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
32	Model predictive control for continuous pharmaceutical feeding blending units. Chemical Engineering Research and Design, 2020, 154, 101-114.	2.7	9
33	Extended validation and verification of XPS/AVL-Fireâ„¢, a computational CFD-DEM software platform. Powder Technology, 2020, 361, 880-893.	2.1	21
34	A novel framework for a rational, fully-automatised calibration routine for DEM models of cohesive powders. Powder Technology, 2020, 361, 687-703.	2.1	19
35	A solution for low-dose feeding in continuous pharmaceutical processes. International Journal of Pharmaceutics, 2020, 591, 119969.	2.6	15
36	Deep convolutional neural networks: Outperforming established algorithms in the evaluation of industrial optical coherence tomography (OCT) images of pharmaceutical coatings. International Journal of Pharmaceutics: X, 2020, 2, 100058.	1.2	5

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37	Performance Evaluation of a High-Precision Low-Dose Powder Feeder. AAPS PharmSciTech, 2020, 21, 301.	1.5	10
38	Novel Cleaning-in-Place Strategies for Pharmaceutical Hot Melt Extrusion. Pharmaceutics, 2020, 12, 588.	2.0	7
39	Towards predicting the product quality in hot-melt extrusion: Small scale extrusion. International Journal of Pharmaceutics: X, 2020, 2, 100062.	1.2	4
40	End-Point Prediction of Granule Moisture in a ConsiGmaTM-25 Segmented Fluid Bed Dryer. Pharmaceutics, 2020, 12, 452.	2.0	12
41	Impact of powder composition on processing-relevant properties of pharmaceutical materials: An experimental study. Advanced Powder Technology, 2020, 31, 2991-3003.	2.0	9
42	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
43	Runtime Maximization of Continuous Precipitation in an Ultrasonic Process Chamber. Organic Process Research and Development, 2020, 24, 508-519.	1.3	1
44	Developing HME-Based Drug Products Using Emerging Science: a Fast-Track Roadmap from Concept to Clinical Batch. AAPS PharmSciTech, 2020, 21, 176.	1.5	18
45	LBM for two-phase (bio-)reactors. Advances in Chemical Engineering, 2020, 55, 219-285.	0.5	4
46	Feeding of particle-based materials in continuous solid dosage manufacturing: a material science perspective. Drug Discovery Today, 2020, 25, 800-806.	3.2	14
47	Deformable and breakable DEM particle clusters for modelling compression of plastic and brittle porous materials â€" Model and structure properties. Powder Technology, 2020, 368, 90-104.	2.1	8
48	Filling of lactose-based formulations in a tamping-pin capsule filler. Drug Development and Industrial Pharmacy, 2020, 46, 775-787.	0.9	0
49	LIF or dye: Comparison of different tracing methods for granular solids. Powder Technology, 2020, 367, 20-31.	2.1	3
50	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
51	Measurement of granule layer thickness in a spouted bed coating process via optical coherence tomography. Powder Technology, 2019, 356, 139-147.	2.1	23
52	How to measure coating thickness of tablets: Method comparison of optical coherence tomography, near-infrared spectroscopy and weight-, height- and diameter gain. European Journal of Pharmaceutics and Biopharmaceutics, 2019, 142, 344-352.	2.0	22
53	Understanding the motion of hard-shell capsules in dry powder inhalers. International Journal of Pharmaceutics, 2019, 567, 118481.	2.6	20
54	Ensuring tablet quality via model-based control of a continuous direct compaction process. International Journal of Pharmaceutics, 2019, 567, 118457.	2.6	17

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55	At-line validation of optical coherence tomography as in-line/at-line coating thickness measurement method. International Journal of Pharmaceutics, 2019, 572, 118766.	2.6	16
56	Prediction of the anisotropic mechanical properties of compacted powders. Powder Technology, 2019, 345, 589-600.	2.1	10
57	Model-based approach to the design of pharmaceutical roller-compaction processes. International Journal of Pharmaceutics: X, 2019, 1, 100005.	1.2	9
58	Sensitivity of a continuous hot-melt extrusion and strand pelletization line to control actions and composition variation. International Journal of Pharmaceutics, 2019, 566, 239-253.	2.6	7
59	Study of the capsule-filling dosator process via calibrated DEM simulations. International Journal of Pharmaceutics, 2019, 567, 118441.	2.6	5
60	Using online content uniformity measurements for rapid automated process development exemplified via an X-ray system. Pharmaceutical Development and Technology, 2019, 24, 775-787.	1.1	2
61	Performance Characterization of Static Mixers in Precipitating Environments. Organic Process Research and Development, 2019, 23, 1308-1320.	1.3	13
62	Shedding light on coatings: Real-time monitoring of coating quality at industrial scale. International Journal of Pharmaceutics, 2019, 566, 57-66.	2.6	28
63	Drying of supported catalysts for high metal concentrations: A reduced parameter model. Chemical Engineering Science, 2019, 206, 361-374.	1.9	5
64	A novel in silico scale-up approach for hot melt extrusion processes. Chemical Engineering Science, 2019, 204, 257-269.	1.9	15
65	Industrial scale simulations of tablet coating using GPU based DEM: A validation study. Chemical Engineering Science, 2019, 202, 462-480.	1.9	53
66	The need for new control strategies for particulate matter in parenterals. Pharmaceutical Development and Technology, 2019, 24, 739-750.	1.1	2
67	Predicting capsule fill weight from in-situ powder density measurements using terahertz reflection technology. International Journal of Pharmaceutics: X, 2019, 1, 100004.	1.2	3
68	Particle-level residence time data in a twin-screw feeder. Data in Brief, 2019, 27, 104672.	0.5	15
69	Computational Fluid Dynamics-Discrete Element Method Modeling of an Industrial-Scale Wurster Coater. Journal of Pharmaceutical Sciences, 2019, 108, 538-550.	1.6	27
70	Measuring bulk density variations in a moving powder bed via terahertz in-line sensing. Powder Technology, 2019, 344, 152-160.	2.1	11
71	Fifty-Eight Years and Counting: High-Impact Publishing in Computational Pharmaceutical Sciences and Mechanism-Based Modeling. Journal of Pharmaceutical Sciences, 2019, 108, 2-7.	1.6	4
72	Numerical investigation of a coarse-grain discrete element method in solid mixing in a spouted bed. Chemical Engineering Journal, 2018, 346, 416-426.	6.6	89

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73	Study of a low-dose capsule filling process by dynamic and static tests for advanced process understanding. International Journal of Pharmaceutics, 2018, 540, 22-30.	2.6	7
74	Spatially Resolved Spectral Powder Analysis: Experiments and Modeling. Applied Spectroscopy, 2018, 72, 521-534.	1.2	9
75	Characterization of the coating and tablet core roughness by means of 3D optical coherence tomography. International Journal of Pharmaceutics, 2018, 536, 459-466.	2.6	10
76	Rapid automated process development of a continuous capsule-filling process. International Journal of Pharmaceutics, 2018, 546, 154-165.	2.6	8
77	Control of three different continuous pharmaceutical manufacturing processes: Use of soft sensors. International Journal of Pharmaceutics, 2018, 543, 60-72.	2.6	52
78	A combined DEM & FEM approach for modelling roll compaction process. Powder Technology, 2018, 337, 3-16.	2.1	26
79	Inâ€line measurement of residence time distribution in melt extrusion via video analysis. Polymer Engineering and Science, 2018, 58, 170-179.	1.5	17
80	The effect of saliva on the fate of nanoparticles. Clinical Oral Investigations, 2018, 22, 929-940.	1.4	37
81	3D printing of oral drugs: a new reality or hype?. Expert Opinion on Drug Delivery, 2018, 15, 1-4.	2.4	88
82	Automation of a dosing-disc capsule filler from the perspective of reliability and safety. Drug Development and Industrial Pharmacy, 2018, 44, 502-510.	0.9	5
83	Detailed modeling and process design of an advanced continuous powder mixer. International Journal of Pharmaceutics, 2018, 552, 288-300.	2.6	62
84	Effect of particle shape in grinding mills using a GPU based DEM code. Minerals Engineering, 2018, 129, 71-84.	1.8	28
85	Formulation performance and processability window for manufacturing a dual-polymer amorphous solid dispersion via hot-melt extrusion and strand pelletization. International Journal of Pharmaceutics, 2018, 553, 408-421.	2.6	22
86	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
87	Relative Contributions of Solubility and Mobility to the Stability of Amorphous Solid Dispersions of Poorly Soluble Drugs: A Molecular Dynamics Simulation Study. Pharmaceutics, 2018, 10, 101.	2.0	20
88	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
89	Hopper flow of irregularly shaped particles (non-convex polyhedra): GPU-based DEM simulation and experimental validation. Chemical Engineering Science, 2018, 188, 34-51.	1.9	42
90	Gluing Pills Technology: A novel route to multilayer tablet manufacturing. International Journal of Pharmaceutics, 2018, 548, 672-681.	2.6	13

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91	Large-scale GPU based DEM modeling of mixing using irregularly shaped particles. Advanced Powder Technology, 2018, 29, 2476-2490.	2.0	64
92	Effect of Technically Relevant X-Ray Doses on the Structure and Function of Alcohol Dehydrogenase and Hen Egg-White Lysozyme. Pharmaceutical Research, 2018, 35, 135.	1.7	4
93	Residence time distribution of a continuously-operated capsule filling machine: Development of a measurement technique and comparison of three volume-reducing inserts. International Journal of Pharmaceutics, 2018, 550, 180-189.	2.6	8
94	Continuous Drying of Pharmaceutical Powders Using a Twin-Screw Extruder. Organic Process Research and Development, 2018, 22, 813-823.	1.3	14
95	RTD-based material tracking in a fully-continuous dry granulation tableting line. International Journal of Pharmaceutics, 2018, 547, 469-479.	2.6	39
96	Modeling yield properties of compacted powder using a multi-particle finite element model with cohesive contacts. Powder Technology, 2018, 336, 426-440.	2.1	19
97	Crystal Shape Modification via Cycles of Growth and Dissolution in a Tubular Crystallizer. Crystal Growth and Design, 2018, 18, 4403-4415.	1.4	33
98	The effect of liquid bridge model details on the dynamics of wet fluidized beds. AICHE Journal, 2018, 64, 437-456.	1.8	25
99	Liquid transport rates during binary collisions of unequally-sized particles. Powder Technology, 2017, 309, 95-109.	2.1	7
100	Analysis of flow and mixing in screw elements of corotating twinâ€screw extruders via SPH. AICHE Journal, 2017, 63, 2451-2463.	1.8	31
101	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
102	Comparison of video analysis and simulations of a drum coating process. European Journal of Pharmaceutical Sciences, 2017, 104, 72-81.	1.9	15
103	Establishment of a Molding Procedure to Facilitate Formulation Development for Co-extrudates. AAPS PharmSciTech, 2017, 18, 2971-2976.	1.5	14
104	Sensitivity analysis of a pharmaceutical tablet production process from the control engineering perspective. International Journal of Pharmaceutics, 2017, 517, 373-382.	2.6	8
105	RTD modeling of a continuous dry granulation process for process control and materials diversion. International Journal of Pharmaceutics, 2017, 528, 334-344.	2.6	47
106	Micro-feeding and dosing of powders via a small-scale powder pump. International Journal of Pharmaceutics, 2017, 519, 314-322.	2.6	15
107	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
108	Drugâ€“Excipient Interactions in the Solid State: The Role of Different Stress Factors. Molecular Pharmaceutics, 2017, 14, 4560-4571.	2.3	15

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109	Crystal Engineering in Continuous Plug-Flow Crystallizers. Crystal Growth and Design, 2017, 17, 6432-6444.	1.4	65
110	Mechanistic modeling of a capsule filling process. International Journal of Pharmaceutics, 2017, 532, 47-54.	2.6	14
111	Efficient Discrete Element Method Simulation Strategy for Analyzing Largeâ€Scale Agitated Powder Mixers. Chemie-Ingenieur-Technik, 2017, 89, 995-1005.	0.4	16
112	A Continuous Operation Concept for a Rotary Tablet Press Using Mass Flow Operating Points. Chemie-Ingenieur-Technik, 2017, 89, 1006-1016.	0.4	9
113	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
114	Why hot melts do not stick to cold surfaces. Polymer Engineering and Science, 2017, 57, 1083-1089.	1.5	3
115	The effect of material attributes and process parameters on the powder bed uniformity during a low-dose dosator capsule filling process. International Journal of Pharmaceutics, 2017, 516, 9-20.	2.6	16
116	DEM study of granular transport in partially filled horizontal screwÂconveyors. Powder Technology, 2017, 305, 347-356.	2.1	40
117	A Review of PAT Strategies in Secondary Solid Oral Dosage Manufacturing of Small Molecules. Journal of Pharmaceutical Sciences, 2017, 106, 667-712.	1.6	72
118	BlazeDEM3D-GPU A Large Scale DEM simulation code for GPUs. EPJ Web of Conferences, 2017, 140, 06025.	0.1	2
119	Local gas holdup simulation and validation of industrial-scale aerated bioreactors. Chemical Engineering Science, 2016, 152, 636-648.	1.9	26
120	A model to predict liquid bridge formation between wet particles based on direct numerical simulations. AICHE Journal, 2016, 62, 1877-1897.	1.8	27
121	Continuous feeding of low-dose APIs via periodic micro dosing. International Journal of Pharmaceutics, 2016, 509, 123-134.	2.6	26
122	Injection molding as a one-step process for the direct production of pharmaceutical dosage forms from primary powders. International Journal of Pharmaceutics, 2016, 505, 341-351.	2.6	18
123	NANEX: Process design and optimization. International Journal of Pharmaceutics, 2016, 506, 35-45.	2.6	14
124	Lyophilized protein powders: A review of analytical tools for root cause analysis of lot-to-lot variability. TrAC - Trends in Analytical Chemistry, 2016, 82, 468-491.	5.8	20
125	The effect of the number of impeller blades on granular flow in a bladed mixer. Powder Technology, 2016, 302, 333-349.	2.1	62
126	Multi-methodological investigation of the variability of the microstructure of HPMC hard capsules. International Journal of Pharmaceutics, 2016, 511, 840-854.	2.6	14

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127	Simulation of a tablet coating process at different scales using DEM. European Journal of Pharmaceutical Sciences, 2016, 93, 74-83.	1.9	42
128	Continuous Suzukiâ€"Miyaura reactions with novel Ceâ€"Snâ€"Pd oxides and integrated crystallization as continuous downstream protocol. Journal of Flow Chemistry, 2016, 6, 244-251.	1.2	16
129	The Plug & Play Reactor: A Highly Flexible Device for Heterogeneous Reactions in Continuous Flow. Chemie-Ingenieur-Technik, 2016, 88, 1518-1523.	0.4	8
130	Optimized continuous pharmaceutical manufacturing via model-predictive control. International Journal of Pharmaceutics, 2016, 510, 100-115.	2.6	46
131	Preface of EuPAT 7 Special Issue - Inventing Tomorrowâ€™s Development and Manufacturing. European Journal of Pharmaceutical Sciences, 2016, 90, 1.	1.9	1
132	Evaluation of the tabletsâ€™ surface flow velocities in pan coaters. European Journal of Pharmaceutics and Biopharmaceutics, 2016, 106, 97-106.	2.0	11
133	Development of a design space and predictive statistical model for capsule filling of low-fill-weight inhalation products. Drug Development and Industrial Pharmacy, 2016, 42, 221-230.	0.9	12
134	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
135	Comparing particle size distributions of an arbitrary shape. Powder Technology, 2016, 294, 134-145.	2.1	10
136	Effect of bubbleâ€“particle interaction models on flow predictions in three-phase bubble columns. Chemical Engineering Science, 2016, 146, 226-243.	1.9	19
137	Analysis of large-scale tablet coating: Modeling, simulation and experiments. European Journal of Pharmaceutical Sciences, 2016, 90, 14-24.	1.9	63
138	Continuous low-dose feeding of highly active pharmaceutical ingredients in hot-melt extrusion. Drug Development and Industrial Pharmacy, 2016, 42, 1360-1364.	0.9	6
139	An Overview of Pharmaceutical Manufacturing for Solid Dosage Forms. Methods in Pharmacology and Toxicology, 2016, , 311-383.	0.1	5
140	Dynamic cross-flow filtration: enhanced continuous small-scale solid-liquid separation. Drug Development and Industrial Pharmacy, 2016, 42, 977-984.	0.9	10
141	Development of an Abuse- and Alcohol-Resistant Formulation Based on Hot-Melt Extrusion and Film Coating. AAPS PharmSciTech, 2016, 17, 68-77.	1.5	19
142	Particle-loaded monolithic materials for separations via planar electrochromatography. Journal of Planar Chromatography - Modern TLC, 2016, 29, 15-21.	0.6	1
143	Modeling of an Active Tablet Coating Process. Journal of Pharmaceutical Sciences, 2015, 104, 4082-4092.	1.6	34
144	In-Line Monitoring of a Pharmaceutical Pan Coating Process by Optical Coherence Tomography. Journal of Pharmaceutical Sciences, 2015, 104, 2531-2540.	1.6	36

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145	Designed Blending for Near Infrared Calibration. Journal of Pharmaceutical Sciences, 2015, 104, 2312-2322.	1.6	8
146	Accuracy of micro powder dosing via a vibratory sieveâ€“chute system. European Journal of Pharmaceutics and Biopharmaceutics, 2015, 94, 264-272.	2.0	16
147	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
148	Continuous Drying of Small Particles for Pharmaceutical Applicationsâ€”An Evaluation of Selected Lab-Scale Systems. Organic Process Research and Development, 2015, 19, 2055-2066.	1.3	9
149	Continuous Processing of Active Pharmaceutical Ingredients Suspensions via Dynamic Cross-Flow Filtration. Journal of Pharmaceutical Sciences, 2015, 104, 3481-3489.	1.6	15
150	The Future of Pharmaceutical Manufacturing Sciences. Journal of Pharmaceutical Sciences, 2015, 104, 3612-3638.	1.6	303
151	Automated pharmaceutical tablet coating layer evaluation of optical coherence tomography images. Measurement Science and Technology, 2015, 26, 035701.	1.4	18
152	The influence of residual water on the solid-state properties of freeze-dried fibrinogen. European Journal of Pharmaceutics and Biopharmaceutics, 2015, 91, 1-8.	2.0	7
153	Crystal Size Control in a Continuous Tubular Crystallizer. Crystal Growth and Design, 2015, 15, 1683-1691.	1.4	66
154	Continuous Crystallization of Proteins in a Tubular Plug-Flow Crystallizer. Crystal Growth and Design, 2015, 15, 1089-1095.	1.4	96
155	The influence of residual water on the secondary structure and crystallinity of freeze-dried fibrinogen. International Journal of Pharmaceutics, 2015, 484, 95-102.	2.6	7
156	Rigorous modeling of CO2 absorption and chemisorption: The influence of bubble coalescence and breakage. Chemical Engineering Science, 2015, 137, 188-204.	1.9	33
157	Carrier-based dry powder inhalation: Impact of carrier modification on capsule filling processability and in vitro aerodynamic performance. International Journal of Pharmaceutics, 2015, 491, 231-242.	2.6	37
158	IPPE-TU Graz: green engineering inside and beyond the borders of process technology. Green Processing and Synthesis, 2015, 4, .	1.3	0
159	Retention-time prediction for polycyclic aromatic compounds in reversed-phase capillary electro-chromatography. Journal of Molecular Modeling, 2015, 21, 124.	0.8	2
160	A novel tool to standardize rheology testing of molten polymers for pharmaceutical applications. International Journal of Pharmaceutics, 2015, 495, 474-481.	2.6	32
161	Co-rotating twin-screw extruders: Detailed analysis of conveying elements based on smoothed particle hydrodynamics. Part 2: Mixing. Chemical Engineering Science, 2015, 134, 880-886.	1.9	43
162	Specific surface, crystallinity, and dissolution of lyophilized fibrinogen. A study by combined small- and wide-angle X-ray scattering (SWAXS). European Journal of Pharmaceutics and Biopharmaceutics, 2015, 89, 374-382.	2.0	9

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163	Calibration-free in-line monitoring of pellet coating processes via optical coherence tomography. Chemical Engineering Science, 2015, 125, 200-208.	1.9	48
164	Evaluation of Parameter Estimation Methods for Crystallization Processes Modeled via Population Balance Equations. Chemical Engineering Research and Design, 2015, 94, 275-289.	2.7	21
165	Fast real-time monitoring of entacapone crystallization and characterization of polymorphs via Raman spectroscopy, statistics and SWAXS. Acta Pharmaceutica, 2014, 64, 1-13.	0.9	9
166	Investigation of Migrantâ€“Polymer Interaction in Pharmaceutical Packaging Material Using the Linear Interaction Energy Algorithm. Journal of Pharmaceutical Sciences, 2014, 103, 3197-3204.	1.6	5
167	Mechanistic modeling of modular co-rotating twin-screw extruders. International Journal of Pharmaceutics, 2014, 474, 157-176.	2.6	59
168	Low-dose capsule filling of inhalation products: Critical material attributes and process parameters. International Journal of Pharmaceutics, 2014, 473, 617-626.	2.6	42
169	Real-time data processing for in-line monitoring of a pharmaceutical coating process by optical coherence tomography. , 2014, , .		1
170	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
171	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
172	The design of controlled-release formulations resistant to alcohol-induced dose dumping â€“ A review. European Journal of Pharmaceutics and Biopharmaceutics, 2014, 87, 217-226.	2.0	48
173	Optical coherence tomography as a novel tool for in-line monitoring of a pharmaceutical film-coating process. European Journal of Pharmaceutical Sciences, 2014, 55, 58-67.	1.9	43
174	Modeling a seeded continuous crystallizer for the production of active pharmaceutical ingredients. Crystal Research and Technology, 2014, 49, 92-108.	0.6	37
175	Continuous API-crystal coating via coacervation in a tubular reactor. International Journal of Pharmaceutics, 2014, 475, 198-207.	2.6	10
176	Nano-extrusion: A promising tool for continuous manufacturing of solid nano-formulations. International Journal of Pharmaceutics, 2014, 477, 1-11.	2.6	51
177	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
178	Use of mechanistic simulations as a quantitative risk-ranking tool within the quality by design framework. International Journal of Pharmaceutics, 2014, 475, 245-255.	2.6	13
179	The effects of powder compressibility, speed of capsule filling and pre-compression on plug densification. International Journal of Pharmaceutics, 2014, 471, 182-188.	2.6	15
180	In-line quality control of moving objects by means of spectral-domain OCT. Optics and Lasers in Engineering, 2014, 59, 1-10.	2.0	14

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181	PAT for tableting: Inline monitoring of API and excipients via NIR spectroscopy. European Journal of Pharmaceutics and Biopharmaceutics, 2014, 87, 271-278.	2.0	90
182	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
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