

Chris Vervaet

List of Publications by Year in descending order

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46
papers

1,551
citations

279798

23
h-index

302126

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times ranked

1165
citing authors

#	ARTICLE	IF	CITATIONS
1	Technological, Biochemical and Microbiological Evaluation of Dehydrated <i>Pleurotus ostreatus</i> Powder for Nutraceutical Applications. <i>Current Nutrition and Food Science</i> , 2022, 18, .	0.6	1
2	A multivariate methodology for material sparing characterization and blend design in drug product development. <i>International Journal of Pharmaceutics</i> , 2022, 621, 121801.	5.2	5
3	3D-Printed Gentamicin-Releasing Poly- μ -Caprolactone Composite Prevents Fracture-Related <i>Staphylococcus aureus</i> Infection in Mice. <i>Pharmaceutics</i> , 2022, 14, 1363.	4.5	9
4	The Influence of Equipment Design and Process Parameters on Granule Breakage in a Semi-Continuous Fluid Bed Dryer after Continuous Twin-Screw Wet Granulation. <i>Pharmaceutics</i> , 2021, 13, 293.	4.5	15
5	Identifying Critical Binder Attributes to Facilitate Binder Selection for Efficient Formulation Development in a Continuous Twin Screw Wet Granulation Process. <i>Pharmaceutics</i> , 2021, 13, 210.	4.5	6
6	Histamine H ₁ and H ₂ receptors are essential transducers of the integrative exercise training response in humans. <i>Science Advances</i> , 2021, 7, .	10.3	19
7	Continuous Twin Screw Granulation: A Review of Recent Progress and Opportunities in Formulation and Equipment Design. <i>Pharmaceutics</i> , 2021, 13, 668.	4.5	26
8	Can Fused Deposition Modelling Enable the Manufacture of Uniform and Precise Dose Tablets?. <i>Medical Sciences Forum</i> , 2021, 5, 3.	0.5	0
9	Can filaments, pellets and powder be used as feedstock to produce highly drug-loaded ethylene-vinyl acetate 3D printed tablets using extrusion-based additive manufacturing?. <i>International Journal of Pharmaceutics</i> , 2021, 607, 120922.	5.2	25
10	Continuous twin screw granulation: Impact of microcrystalline cellulose batch-to-batch variability during granulation and drying – A QbD approach. <i>International Journal of Pharmaceutics: X</i> , 2021, 3, 100077.	1.6	6
11	Development of a 3D-Printed Dosing Platform to Aid in Zolpidem Withdrawal Therapy. <i>Pharmaceutics</i> , 2021, 13, 1684.	4.5	14
12	A NIR-Based Study of Desorption Kinetics during Continuous Spin Freeze-Drying. <i>Pharmaceutics</i> , 2021, 13, 2168.	4.5	4
13	Spin Freezing and Its Impact on Pore Size, Tortuosity and Solid State. <i>Pharmaceutics</i> , 2021, 13, 2126.	4.5	11
14	Development and Application of a Mechanistic Cooling and Freezing Model of the Spin Freezing Step within the Framework of Continuous Freeze-Drying. <i>Pharmaceutics</i> , 2021, 13, 2076.	4.5	7
15	Influence of Print Settings on the Critical Quality Attributes of Extrusion-Based 3D-Printed Caplets: A Quality-by-Design Approach. <i>Pharmaceutics</i> , 2021, 13, 2068.	4.5	14
16	Continuous twin screw granulation: Influence of process and formulation variables on granule quality attributes of model formulations. <i>International Journal of Pharmaceutics</i> , 2020, 576, 118981.	5.2	36
17	In-Situ X-ray Imaging Of Sublimating Spin-Frozen Solutions. <i>Materials</i> , 2020, 13, 2953.	2.9	2
18	4D Micro-Computed X-ray Tomography as a Tool to Determine Critical Process and Product Information of Spin Freeze-Dried Unit Doses. <i>Pharmaceutics</i> , 2020, 12, 430.	4.5	12

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19	Production of Drug Delivery Systems Using Fused Filament Fabrication: A Systematic Review. <i>Pharmaceutics</i> , 2020, 12, 517.	4.5	53
20	Continuous twin screw granulation: A complex interplay between formulation properties, process settings and screw design. <i>International Journal of Pharmaceutics</i> , 2020, 576, 119004.	5.2	44
21	Continuous twin screw granulation: Impact of binder addition method and surfactants on granulation of a high-dosed, poorly soluble API. <i>International Journal of Pharmaceutics</i> , 2020, 577, 119068.	5.2	14
22	Predicting and Testing Bioavailability of Magnesium Supplements. <i>Nutrients</i> , 2019, 11, 1663.	4.1	26
23	Dual chamber cartridges in a continuous pharmaceutical freeze-drying concept: Determination of the optimal dynamic infrared heater temperature during primary drying. <i>International Journal of Pharmaceutics</i> , 2019, 570, 118631.	5.2	10
24	The relevance of shear, sedimentation and diffusion during spin freezing, as potential first step of a continuous freeze-drying process for unit doses. <i>International Journal of Pharmaceutics</i> , 2018, 539, 1-10.	5.2	13
25	Potential of Near-Infrared Chemical Imaging as Process Analytical Technology Tool for Continuous Freeze-Drying. <i>Analytical Chemistry</i> , 2018, 90, 4354-4362.	6.5	23
26	Thermal Imaging as a Noncontact Inline Process Analytical Tool for Product Temperature Monitoring during Continuous Freeze-Drying of Unit Doses. <i>Analytical Chemistry</i> , 2018, 90, 13591-13599.	6.5	24
27	A multivariate raw material property database to facilitate drug product development and enable in-silico design of pharmaceutical dry powder processes. <i>International Journal of Pharmaceutics</i> , 2018, 549, 415-435.	5.2	72
28	Mechanistic modelling of infrared mediated energy transfer during the primary drying step of a continuous freeze-drying process. <i>European Journal of Pharmaceutics and Biopharmaceutics</i> , 2017, 114, 11-21.	4.3	19
29	Modelling the primary drying step for the determination of the optimal dynamic heating pad temperature in a continuous pharmaceutical freeze-drying process for unit doses. <i>International Journal of Pharmaceutics</i> , 2017, 532, 185-193.	5.2	14
30	Pharmacokinetic analysis of modified-release metoprolol formulations: An interspecies comparison. <i>European Journal of Pharmaceutical Sciences</i> , 2017, 97, 135-142.	4.0	2
31	Blend uniformity evaluation during continuous mixing in a twin screw granulator by in-line NIR using a moving F-test. <i>Analytica Chimica Acta</i> , 2016, 935, 213-223.	5.4	29
32	Continuous melt granulation: Influence of process and formulation parameters upon granule and tablet properties. <i>European Journal of Pharmaceutics and Biopharmaceutics</i> , 2016, 107, 249-262.	4.3	47
33	Development of a process map: A step towards a regime map for steady-state high shear wet twin screw granulation. <i>Powder Technology</i> , 2016, 300, 73-82.	4.2	37
34	Process Analytical Technology for continuous manufacturing of solid-dosage forms. <i>TrAC - Trends in Analytical Chemistry</i> , 2015, 67, 159-166.	11.4	126
35	Evaluation of an in-line particle imaging tool for monitoring twin-screw granulation performance. <i>Powder Technology</i> , 2015, 285, 80-87.	4.2	22
36	Impact of microcrystalline cellulose material attributes: A case study on continuous twin screw granulation. <i>International Journal of Pharmaceutics</i> , 2015, 478, 705-717.	5.2	53

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37	Influence of raw material properties upon critical quality attributes of continuously produced granules and tablets. <i>European Journal of Pharmaceutics and Biopharmaceutics</i> , 2014, 87, 252-263.	4.3	70
38	Distribution of binder in granules produced by means of twin screw granulation. <i>International Journal of Pharmaceutics</i> , 2014, 462, 8-10.	5.2	21
39	NIR spectroscopic method for the in-line moisture assessment during drying in a six-segmented fluid bed dryer of a continuous tablet production line: Validation of quantifying abilities and uncertainty assessment. <i>Journal of Pharmaceutical and Biomedical Analysis</i> , 2014, 100, 21-27.	2.8	36
40	Moisture and drug solid-state monitoring during a continuous drying process using empirical and mass balance models. <i>European Journal of Pharmaceutics and Biopharmaceutics</i> , 2014, 87, 616-628.	4.3	39
41	Real-time assessment of critical quality attributes of a continuous granulation process. <i>Pharmaceutical Development and Technology</i> , 2013, 18, 85-97.	2.4	94
42	Optimization of Drug Delivery Systems for Intraperitoneal Therapy to Extend the Residence Time of the Chemotherapeutic Agent. <i>Scientific World Journal</i> , The, 2013, 2013, 1-7.	2.1	59
43	Prediction of quality attributes of continuously produced granules using complementary pat tools. <i>European Journal of Pharmaceutics and Biopharmaceutics</i> , 2012, 82, 429-436.	4.3	64
44	Effect of disintegrants on the properties of multiparticulate tablets comprising starch pellets and excipient granules. <i>International Journal of Pharmaceutics</i> , 2012, 422, 310-317.	5.2	36
45	In-vitro and in-vivo evaluation of enteric-coated starch-based pellets prepared via extrusion/spheronisation. <i>European Journal of Pharmaceutics and Biopharmaceutics</i> , 2008, 70, 302-312.	4.3	32
46	Continuous granulation in the pharmaceutical industry. <i>Chemical Engineering Science</i> , 2005, 60, 3949-3957.	3.8	260