

Chris Vervaet

List of Publications by Year in descending order

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Version: 2024-02-01

46
papers

1,551
citations

279798

23
h-index

302126

39
g-index

46
all docs

46
docs citations

46
times ranked

1165
citing authors

| # | ARTICLE | IF | CITATIONS |
|----|--|------|-----------|
| 1 | Continuous granulation in the pharmaceutical industry. <i>Chemical Engineering Science</i> , 2005, 60, 3949-3957. | 3.8 | 260 |
| 2 | Process Analytical Technology for continuous manufacturing of solid-dosage forms. <i>TrAC - Trends in Analytical Chemistry</i> , 2015, 67, 159-166. | 11.4 | 126 |
| 3 | 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 |
| 4 | 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 |
| 5 | 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 |
| 6 | 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 |
| 7 | Optimization of Drug Delivery Systems for Intraperitoneal Therapy to Extend the Residence Time of the Chemotherapeutic Agent. <i>Scientific World Journal, The</i> , 2013, 2013, 1-7. | 2.1 | 59 |
| 8 | 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 |
| 9 | Production of Drug Delivery Systems Using Fused Filament Fabrication: A Systematic Review. <i>Pharmaceutics</i> , 2020, 12, 517. | 4.5 | 53 |
| 10 | 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 |
| 11 | 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 |
| 12 | 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 |
| 13 | 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 |
| 14 | 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 |
| 15 | 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 |
| 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-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 |
| 18 | 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 |

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|----|--|------|-----------|
| 19 | Predicting and Testing Bioavailability of Magnesium Supplements. <i>Nutrients</i> , 2019, 11, 1663. | 4.1 | 26 |
| 20 | 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 |
| 21 | 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 |
| 22 | 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 |
| 23 | 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 |
| 24 | 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 |
| 25 | 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 |
| 26 | 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 |
| 27 | 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 |
| 28 | 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 |
| 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 | 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 |
| 31 | Development of a 3D-Printed Dosing Platform to Aid in Zolpidem Withdrawal Therapy. <i>Pharmaceutics</i> , 2021, 13, 1684. | 4.5 | 14 |
| 32 | 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 |
| 33 | 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 |
| 34 | 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 |
| 35 | Spin Freezing and Its Impact on Pore Size, Tortuosity and Solid State. <i>Pharmaceutics</i> , 2021, 13, 2126. | 4.5 | 11 |
| 36 | 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 |

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|----|--|-----|-----------|
| 37 | 3D-Printed Gentamicin-Releasing Poly- ϵ -Caprolactone Composite Prevents Fracture-Related Staphylococcus aureus Infection in Mice. <i>Pharmaceutics</i> , 2022, 14, 1363. | 4.5 | 9 |
| 38 | 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 |
| 39 | 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 |
| 40 | 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 |
| 41 | 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 |
| 42 | A NIR-Based Study of Desorption Kinetics during Continuous Spin Freeze-Drying. <i>Pharmaceutics</i> , 2021, 13, 2168. | 4.5 | 4 |
| 43 | Pharmacokinetic analysis of modified-release metoprolol formulations: An interspecies comparison. <i>European Journal of Pharmaceutical Sciences</i> , 2017, 97, 135-142. | 4.0 | 2 |
| 44 | In-Situ X-ray Imaging Of Sublimating Spin-Frozen Solutions. <i>Materials</i> , 2020, 13, 2953. | 2.9 | 2 |
| 45 | 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 |
| 46 | Can Fused Deposition Modelling Enable the Manufacture of Uniform and Precise Dose Tablets?. <i>Medical Sciences Forum</i> , 2021, 5, 3. | 0.5 | 0 |