Pieter-Jan Van Bockstal

List of Publications by Year
in descending order

34 papers	755 citations	516681 16 h-index	552766 26 g-index
34 all docs	34 docs citations	34 times ranked	824 citing authors

#	Article	IF	Citations
1	Lyophilization of NOTA-sdAbs: First step towards a cold diagnostic kit for 68Ga-labeling. European Journal of Pharmaceutics and Biopharmaceutics, 2021, 166, 194-204.	4.3	4
2	A NIR-Based Study of Desorption Kinetics during Continuous Spin Freeze-Drying. Pharmaceutics, 2021, 13, 2168.	4.5	4
3	Spin Freezing and Its Impact on Pore Size, Tortuosity and Solid State. Pharmaceutics, 2021, 13, 2126.	4.5	11
4	Development and Application of a Mechanistic Cooling and Freezing Model of the Spin Freezing Step within the Framework of Continuous Freeze-Drying. Pharmaceutics, 2021, 13, 2076.	4.5	7
5	Application of polyvinyl acetate in an innovative formulation strategy for lyophilized orally disintegrating tablets. International Journal of Pharmaceutics, 2020, 588, 119717.	5.2	9
6	In-Situ X-ray Imaging Of Sublimating Spin-Frozen Solutions. Materials, 2020, 13, 2953.	2.9	2
7	The Impact of Formulation Composition and Process Settings of Traditional Batch Versus Continuous Freeze-Drying On Protein Aggregation. Journal of Pharmaceutical Sciences, 2020, 109, 3308-3318.	3.3	14
8	A primary drying model-based comparison of conventional batch freeze-drying to continuous spin-freeze-drying for unit doses. European Journal of Pharmaceutics and Biopharmaceutics, 2020, 157, 97-107.	4.3	26
9	Model-based optimization of the primary drying phase of oral lyophilizates. International Journal of Pharmaceutics: X, 2020, 2, 100057.	1.6	2
10	4D Micro-Computed X-ray Tomography as a Tool to Determine Critical Process and Product Information of Spin Freeze-Dried Unit Doses. Pharmaceutics, 2020, 12, 430.	4.5	12
11	Model-Based Optimisation and Control Strategy for the Primary Drying Phase of a Lyophilisation Process. Pharmaceutics, 2020, 12, 181.	4.5	16
12	The generation and use of recombinant extracellular vesicles as biological reference material. Nature Communications, 2019, 10, 3288.	12.8	96
13	Dual chamber cartridges in a continuous pharmaceutical freeze-drying concept: Determination of the optimal dynamic infrared heater temperature during primary drying. International Journal of Pharmaceutics, 2019, 570, 118631.	5.2	10
14	Analysis of a pharmaceutical batch freeze dryer: resource consumption, hotspots, and factors for potential improvement. Drying Technology, 2019, 37, 1563-1582.	3.1	7
15	Developing a framework to model the primary drying step of a continuous freeze-drying process based on infrared radiation. European Journal of Pharmaceutics and Biopharmaceutics, 2018, 127, 159-170.	4.3	11
16	Vacuum Induced Surface Freezing as an effective method for improved inter- and intra-vial product homogeneity. European Journal of Pharmaceutics and Biopharmaceutics, 2018, 128, 210-219.	4.3	20
17	The relevance of shear, sedimentation and diffusion during spin freezing, as potential first step of a continuous freeze-drying process for unit doses. International Journal of Pharmaceutics, 2018, 539, 1-10.	5.2	13
18	Global Sensitivity Analysis as Good Modelling Practices tool for the identification of the most influential process parameters of the primary drying step during freeze-drying. European Journal of Pharmaceutics and Biopharmaceutics, 2018, 123, 108-116.	4.3	8

#	Article	IF	Citations
19	Polymorphism of Indomethacin in Semicrystalline Dispersions: Formation, Transformation, and Segregation. Molecular Pharmaceutics, 2018, 15, 1037-1051.	4.6	42
20	Potential of Near-Infrared Chemical Imaging as Process Analytical Technology Tool for Continuous Freeze-Drying. Analytical Chemistry, 2018, 90, 4354-4362.	6.5	23
21	Formulation Optimization of Freeze-Dried Long-Circulating Liposomes and In-Line Monitoring of the Freeze-Drying Process Using an NIR Spectroscopy Tool. Journal of Pharmaceutical Sciences, 2018, 107, 139-148.	3.3	38
22	Thermal Imaging as a Noncontact Inline Process Analytical Tool for Product Temperature Monitoring during Continuous Freeze-Drying of Unit Doses. Analytical Chemistry, 2018, 90, 13591-13599.	6.5	24
23	Noncontact Infrared-Mediated Heat Transfer During Continuous Freeze-Drying of Unit Doses. Journal of Pharmaceutical Sciences, 2017, 106, 71-82.	3.3	26
24	Mechanistic modelling of infrared mediated energy transfer during the primary drying step of a continuous freeze-drying process. European Journal of Pharmaceutics and Biopharmaceutics, 2017, 114, 11-21.	4.3	19
25	In-line monitoring of compaction properties on a rotary tablet press during tablet manufacturing of hot-melt extruded amorphous solid dispersions. International Journal of Pharmaceutics, 2017, 517, 348-358.	5.2	24
26	Quantitative risk assessment via uncertainty analysis in combination with error propagation for the determination of the dynamic Design Space of the primary drying step during freeze-drying. European Journal of Pharmaceutics and Biopharmaceutics, 2017, 121, 32-41.	4.3	26
27	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. International Journal of Pharmaceutics, 2017, 532, 185-193.	5.2	14
28	Uncertainty analysis as essential step in the establishment of the dynamic Design Space of primary drying during freeze-drying. European Journal of Pharmaceutics and Biopharmaceutics, 2016, 103, 71-83.	4.3	44
29	Hydrophilic thermoplastic polyurethanes for the manufacturing of highly dosed oral sustained release matrices via hot melt extrusion and injection molding. International Journal of Pharmaceutics, 2016, 506, 214-221.	5.2	68
30	A comparative study between melt granulation/compression and hot melt extrusion/injection molding for the manufacturing of oral sustained release thermoplastic polyurethane matrices. International Journal of Pharmaceutics, 2016, 513, 602-611.	5.2	41
31	Impact of vacuum-induced surface freezing on inter- and intra-vial heterogeneity. European Journal of Pharmaceutics and Biopharmaceutics, 2016, 103, 167-178.	4.3	48
32	Comparison of metoprolol tartrate multiple-unit lipid matrix systems produced by different technologies. European Journal of Pharmaceutical Sciences, 2016, 88, 233-245.	4.0	10
33	Model-based optimization of the primary drying step during freeze-drying. Computer Aided Chemical Engineering, 2015, 37, 2177-2182.	0.5	3
34	In-line near infrared spectroscopy during freeze-drying as a tool to measure efficiency of hydrogen bond formation between protein and sugar, predictive of protein storage stability. International Journal of Pharmaceutics, 2015, 496, 792-800.	5.2	33