

Frans L Muller

List of Publications by Year in descending order

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35
papers

597
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567281

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all docs

37
docs citations

37
times ranked

637
citing authors

#	ARTICLE	IF	CITATIONS
1	Rapid multistep kinetic model generation from transient flow data. <i>Reaction Chemistry and Engineering</i> , 2017, 2, 103-108.	3.7	71
2	A GPU-based coupled SPH-DEM method for particle-fluid flow with free surfaces. <i>Powder Technology</i> , 2018, 338, 548-562.	4.2	70
3	On the Fracture of Pharmaceutical Needle-Shaped Crystals during Pressure Filtration: Case Studies and Mechanistic Understanding. <i>Organic Process Research and Development</i> , 2012, 16, 425-434.	2.7	61
4	A CPU-GPU cross-platform coupled CFD-DEM approach for complex particle-fluid flows. <i>Chemical Engineering Science</i> , 2020, 223, 115712.	3.8	35
5	On the contribution of small bubbles to mass transfer in bubble columns containing highly viscous liquids. <i>Chemical Engineering Science</i> , 1992, 47, 3525-3532.	3.8	33
6	Rheology of Shear Thinning Polymer Solutions. <i>Industrial & Engineering Chemistry Research</i> , 1994, 33, 2364-2367.	3.7	33
7	A Practical Approach for Using Solubility to Design Cooling Crystallisations. <i>Organic Process Research and Development</i> , 2009, 13, 1315-1321.	2.7	28
8	On the Effect of Temperature on Aqueous Solubility of Organic Solids. <i>Organic Process Research and Development</i> , 2010, 14, 661-665.	2.7	23
9	An ultra-compact particle size analyser using a CMOS image sensor and machine learning. <i>Light: Science and Applications</i> , 2020, 9, 21.	16.6	23
10	Data fusion strategies to combine sensor and multivariate model outputs for multivariate statistical process control. <i>Analytical and Bioanalytical Chemistry</i> , 2020, 412, 2151-2163.	3.7	22
11	Process Monitoring of Moisture Content and Mass Transfer Rate in a Fluidised Bed with a Low Cost Inline MEMS NIR Sensor. <i>Pharmaceutical Research</i> , 2020, 37, 84.	3.5	19
12	Morphology and Growth of Methyl Stearate as a Function of Crystallization Environment. <i>Crystal Growth and Design</i> , 2017, 17, 563-575.	3.0	18
13	Determination of mass transfer resistances of fast reactions in three-phase mechanically agitated slurry reactors. <i>AIChE Journal</i> , 2017, 63, 273-282.	3.6	17
14	An investigation on the evolution of granule formation by in-process sampling of a high shear granulator. <i>Chemical Engineering Research and Design</i> , 2018, 129, 403-411.	5.6	17
15	Definitive screening designs for multistep kinetic models in flow. <i>Reaction Chemistry and Engineering</i> , 2019, 4, 1565-1570.	3.7	16
16	Anticipation of scale up issues in pharmaceutical development. <i>Computers and Chemical Engineering</i> , 2009, 33, 1051-1055.	3.8	15
17	Systematic substrate adoption methodology (SAM) for future flexible, generic pharmaceutical production processes. <i>Computers and Chemical Engineering</i> , 2013, 58, 344-368.	3.8	14
18	Determination of mass transfer resistances in trickle bed reactors. <i>Chemical Engineering Journal</i> , 2019, 377, 119808.	12.7	14

#	ARTICLE	IF	CITATIONS
19	On the formation of core-shell granules in batch high shear granulators at two scales. Powder Technology, 2019, 356, 253-262.	4.2	9
20	A retrofit strategy to achieve "Fast, Flexible, Future (F3)" pharmaceutical production processes. Computer Aided Chemical Engineering, 2011, 29, 291-295.	0.5	9
21	On the rheological behaviour of batch crystallisations. Chemical Engineering Research and Design, 2009, 87, 627-632.	5.6	7
22	Mechanically Induced Amorphization of Diaqua-bis(Omeprazole)-Magnesium Dihydrate. Crystal Growth and Design, 2020, 20, 6057-6068.	3.0	7
23	Predicting Mass Transfer in Liquid-Liquid Extraction Columns. Processes, 2022, 10, 968.	2.8	6
24	Determination of styrene hydrogenation surface kinetics through detailed simulation of the hydrogen uptake curve. Reaction Chemistry and Engineering, 2019, 4, 1477-1485.	3.7	4
25	Decoupling the relative rate of hydrogen uptake via convection and mass transfer by a single catalytic pellet in a scaled down trickle bed reactor. Chemical Engineering Journal, 2020, 394, 124290.	12.7	4
26	Acid number, viscosity and end-point detection in a multiphase high temperature polymerisation process using an online miniaturised MEMS Fabry-Pérot interferometer. Talanta, 2021, 224, 121735.	5.5	4
27	MEMS Fabry-Perot Interferometer Based Spectral Sensors for Industrial Applications. , 2017, , .		4
28	Carbon cartridges and their use as a purification step in pharmaceutical API processes. Chemical Engineering Research and Design, 2009, 87, 852-858.	5.6	3
29	An Alternative Method to Isolate Pharmaceutical Intermediates. Organic Process Research and Development, 2011, 15, 84-90.	2.7	3
30	Observations of solid-liquid systems in anchor agitated vessels. Chemical Engineering Research and Design, 2012, 90, 750-756.	5.6	2
31	A generic process template for continuous pharmaceutical production. Computer Aided Chemical Engineering, 2012, , 715-719.	0.5	2
32	Micro-mechanical properties of single high aspect ratio crystals. CrystEngComm, 2019, 21, 5738-5748.	2.6	1
33	Effect of Price Dynamics in the Design of Eco-Industrial Parks: An Agent-based Modelling Approach. , 2018, , .		1
34	Comminution and amorphisation of Diaqua-bis(Omeprazole)-Magnesium Dihydrate: An analysis of the energies involved. Powder Technology, 2022, 405, 117415.	4.2	1
35	Stress analysis of an agitated particle bed with different particle aspect ratios by the discrete element method. EPJ Web of Conferences, 2017, 140, 06022.	0.3	0