Thomas Vetter

List of Publications by Year
in descending order

39 papers	1,474 citations	331670 21 h-index	315739 38 g-index
42 all docs	42 docs citations	42 times ranked	1366 citing authors

#	Article	IF	Citations
1	Uncovering Molecular Details of Urea Crystal Growth in the Presence of Additives. Journal of the American Chemical Society, 2012, 134, 17221-17233.	13.7	182
2	Modeling Nucleation, Growth, and Ostwald Ripening in Crystallization Processes: A Comparison between Population Balance and Kinetic Rate Equation. Crystal Growth and Design, 2013, 13, 4890-4905.	3.0	117
3	Regions of attainable particle sizes in continuous and batch crystallization processes. Chemical Engineering Science, 2014, 106, 167-180.	3.8	107
4	Controlling and Predicting Crystal Shapes: The Case of Urea. Angewandte Chemie - International Edition, 2013, 52, 13369-13372.	13.8	89
5	High accuracy online measurement of multidimensional particle size distributions during crystallization. Chemical Engineering Science, 2014, 105, 155-168.	3.8	80
6	Aromatic stacking â€“ a key step in nucleation. Chemical Communications, 2017, 53, 7905-7908.	4.1	70
7	Measuring multidimensional particle size distributions during crystallization. Chemical Engineering Science, 2012, 77, 130-142.	3.8	68
8	New insights into saline water evaporation from porous media: Complex interaction between evaporation rates, precipitation, and surface temperature. Geophysical Research Letters, 2017, 44, 5504-5510.	4.0	63
9	Measurement of 3D particle size distributions by stereoscopic imaging. Chemical Engineering Science, 2010, 65, 1362-1373.	3.8	60
10	Quantifying the Inherent Uncertainty Associated with Nucleation Rates Estimated from Induction Time Data Measured in Small Volumes. Crystal Growth and Design, 2017, 17, 2852-2863.	3.0	53
11	Slowing the Growth Rate of Ibuprofen Crystals Using the Polymeric Additive Pluronic F127. Crystal Growth and Design, 2011, 11, 3813-3821.	3.0	52
12	Growth Rate Estimation of Î² <scp>l</scp>-Glutamic Acid from Online Measurements of Multidimensional Particle Size Distributions and Concentration. Industrial & Engineering Chemistry Research, 2014, 53, 9136-9148.	3.7	52
13	Separation of conglomerate forming enantiomers using a novel continuous preferential crystallization process. AICHE Journal, 2015, 61, 2810-2823.	3.6	39
14	Model-Based Analysis of Continuous Crystallization/Reaction Processes Separating Conglomerate Forming Enantiomers. Crystal Growth and Design, 2017, 17, 233-247.	3.0	37
15	Monitoring the particle size and shape in the crystallization of paracetamol from water. Chemical Engineering Research and Design, 2010, 88, 447-454.	5.6	36
16	Salts, Cocrystals, and Ionic Cocrystals of a â€œSimpleâ€•Tautomeric Compound. Crystal Growth and Design, 2018, 18, 6973-6983.	3.0	32
17	Agglomeration of Needle-like Crystals in Suspension: I. Measurements. Crystal Growth and Design, 2015, 15, 1923-1933.	3.0	30
18	Filterability prediction of needle-like crystals based on particle size and shape distribution data. Separation and Purification Technology, 2019, 211, 768-781.	7.9	30

#	Article	IF	Citations
19	Designing Robust Crystallization Processes in the Presence of Parameter Uncertainty Using Attainable Regions. Industrial & Engineering Chemistry Research, 2015, 54, 10350-10363.	3.7	28
20	Agglomeration of Needle-like Crystals in Suspension. II. Modeling. Crystal Growth and Design, 2015, 15, 4296-4310.	3.0	27
21	Modeling the facet growth rate dispersion of Î² l-glutamic acidâ€"Combining single crystal experiments with nD particle size distribution data. Chemical Engineering Science, 2015, 133, 30-43.	3.8	22
22	Evaluation of Parameter Estimation Methods for Crystallization Processes Modeled via Population Balance Equations. Chemical Engineering Research and Design, 2015, 94, 275-289.	5.6	21
23	Polymorph Selection and Process Intensification in a Continuous Crystallizationâ€"Milling Process: A Case Study on <scp>l</scp>-Glutamic Acid Crystallized from Water. Organic Process Research and Development, 2019, 23, 361-374.	2.7	21
24	Design and Performance Assessment of Continuous Crystallization Processes Resolving Racemic Conglomerates. Crystal Growth and Design, 2018, 18, 1686-1696.	3.0	20
25	A mechanistic model to predict droplet drying history and particle shell formation in multicomponent systems. Chemical Engineering Science, 2020, 224, 115713.	3.8	19
26	Solvent and additive interactions as determinants in the nucleation pathway: general discussion. Faraday Discussions, 2015, 179, 383-420.	3.2	18
27	Exploiting the Surface Properties of Graphene for Polymorph Selectivity. ACS Nano, 2020, 14, 10394-10401.	14.6	18
28	An optimization-based approach to extract faceted crystal shapes from stereoscopic images. Computers and Chemical Engineering, 2015, 75, 171-183.	3.8	17
29	Polymorph Selection by Continuous Crystallization in the Presence of Wet Milling. Crystal Growth and Design, 2019, 19, 2259-2271.	3.0	13
30	A novel image analysis technique for 2D characterization of overlapping needle-like crystals. Powder Technology, 2022, 399, 116827.	4.2	9
31	Attainable Regions in Crystallization Processes. Computer Aided Chemical Engineering, 2014, 34, 465-470.	0.5	7
32	Crystal Growth Cell Incorporating Automated Image Analysis Enabling Measurement of Facet Specific Crystal Growth Rates. Crystal Growth and Design, 2022, 22, 2837-2848.	3.0	6
33	Selective polymorphism of Î±-glycine by acoustic levitation. CrystEngComm, 2020, 22, 7075-7081.	2.6	5
34	Single droplets to particles - size, shape, shell thickness and porosity analyses using X-ray computed tomography. Chemical Engineering Science, 2021, 245, 116879.	3.8	4
35	Predicting filtration of needle-like crystals: A Monte Carlo simulation study of polydisperse packings of spherocylinders. Chemical Engineering Science, 2021, 230, 116151.	3.8	3
36	Designing Isothermal Batch Deracemization Processes with Optimal Productivity: 1. Parametric Analysis Using a Population Balance Equation Model. Crystal Growth and Design, 2020, 20, 4293-4306.	3.0	2

#	Article	IF	Citations
37	Design, Development, and Analysis of an Automated Sampling Loop for Online Monitoring of Chiral Crystallization. Organic Process Research and Development, 2022, 26, 1063-1077.	2.7	2
38	Modeling the facet growth rate dispersion of Î² l-glutamic acidâ€"Combining single crystal experiments with nD particle size distribution data. , 2015, 133, 30-30.		1
39	Professor Roger Davey: Master of All Crystal Trades. Crystal Growth and Design, 0, , .	3.0	0