Joop H Ter Horst

List of Publications by Year
in descending order

118 papers	4,480 citations	136950 32 h-index	118850 62 g-index

120 all docs	120 docs citations	120 times ranked	3637 citing authors

#	Article	IF	Citations
1	Nucleation of Organic Crystalsâ€"A Molecular Perspective. Angewandte Chemie - International Edition, 2013, 52, 2166-2179.	13.8	435
2	Crystal Nucleation Rates from Probability Distributions of Induction Times. Crystal Growth and Design, 2011, 11, 256-261.	3.0	270
3	Solvates, Salts, and Cocrystals: A Proposal for a Feasible Classification System. Crystal Growth and Design, 2016, 16, 3237-3243.	3.0	191
4	Crystal Nucleation Kinetics from Induction Times and Metastable Zone Widths. Crystal Growth and Design, 2013, 13, 2435-2440.	3.0	178
5	Discovering New Co-Crystals. Crystal Growth and Design, 2009, 9, 1531-1537.	3.0	128
6	Combination of a Single Primary Nucleation Event and Secondary Nucleation in Crystallization Processes. Crystal Growth and Design, 2011, 11, 1271-1277.	3.0	128
7	A new view on the metastable zone width during cooling crystallization. Chemical Engineering Science, 2012, 72, 10-19.	3.8	127
8	Quantitative Measurement of the Polymorphic Transformation ofl-Glutamic Acid Using In-Situ Raman Spectroscopy. Crystal Growth and Design, 2004, 4, 465-469.	3.0	123
9	Co-Crystal Polymorphs from a Solvent-Mediated Transformation. Crystal Growth and Design, 2008, 8, 2537-2542.	3.0	121
10	Isonicotinamide self-association: the link between solvent and polymorph nucleation. Chemical Communications, 2012, 48, 4983.	4.1	119
11	Measuring induction times and crystal nucleation rates. Faraday Discussions, 2015, 179, 199-214.	3.2	111
12	Revealing the Roles of Desolvation and Molecular Self-Assembly in Crystal Nucleation from Solution: Benzoic and p-Aminobenzoic Acids. Crystal Growth and Design, 2014, 14, 2689-2696.	3.0	109
13	The effect of solvent on crystal morphology. Journal of Crystal Growth, 2001, 230, 277-284.	1.5	102
14	Rapid and scale-independent microfluidic manufacture of liposomes entrapping protein incorporating in-line purification and at-line size monitoring. International Journal of Pharmaceutics, 2019, 556, 68-81.	5.2	81
15	Process Modeling of the Polymorphic Transformation ofl-Glutamic Acid. Crystal Growth and Design, 2004, 4, 1161-1167.	3.0	80
16	Antisolvent Crystallization of the Polymorphs ofl-Histidine as a Function of Supersaturation Ratio and of Solvent Composition. Crystal Growth and Design, 2006, 6, 955-963.	3.0	79
17	Analysis of Nucleation Rate Measurements in Precipitation Processes. Crystal Growth and Design, 2006, 6, 1380-1392.	3.0	75
18	Carbamazepine Co-crystallization with Pyridine Carboxamides: Rationalization by Complementary Phase Diagrams and Crystal Energy Landscapes. Crystal Growth and Design, 2010, 10, 903-912.	3.0	75

#	Article	IF	Citations
19	Concomitant Polymorphism of o-Aminobenzoic Acid in Antisolvent Crystallization. Crystal Growth and Design, 2008, 8, 37-43.	3.0	68
20	Enabling precision manufacturing of active pharmaceutical ingredients: workflow for seeded cooling continuous crystallisations. Molecular Systems Design and Engineering, 2018, 3, 518-549.	3.4	66
21	Racemic Compound, Conglomerate, or Solid Solution: Phase Diagram Screening of Chiral Compounds. Crystal Growth and Design, 2010, 10, 1808-1812.	3.0	63
22	Deracemization of a Racemic Compound via Its Conglomerate-Forming Salt Using Temperature Cycling. Crystal Growth and Design, 2016, 16, 5563-5570.	3.0	63
23	Electrospray Crystallization for Highâ€Quality Submicronâ€Sized Crystals. Chemical Engineering and Technology, 2011, 34, 624-630.	1.5	54
24	Control over Polymorph Formation of o-Aminobenzoic Acid. Crystal Growth and Design, 2010, 10, 2541-2547.	3.0	53
25	Co-Crystallization as a Separation Technology: Controlling Product Concentrations by Co-Crystals. Crystal Growth and Design, 2010, 10, 1171-1179.	3.0	48
26	Attrition-Enhanced Deracemization of NaClO₃: Comparison between Ultrasonic and Abrasive Grinding. Crystal Growth and Design, 2015, 15, 5476-5484.	3.0	43
27	A Structured Approach To Cope with Impurities during Industrial Crystallization Development. Organic Process Research and Development, 2020, 24, 1443-1456.	2.7	43
28	Electrospray Crystallization for Nanosized Pharmaceuticals with Improved Properties. Crystal Growth and Design, 2012, 12, 3514-3520.	3.0	41
29	Precipitation mechanism of stable and metastable polymorphs of L-glutamic acid. AICHE Journal, 2007, 53, 354-362.	3.6	39
30	Determination of the nucleus size from the growth probability of clusters. Journal of Chemical Physics, 2003, 119, 2241-2246.	3.0	38
31	A thermodynamic based approach on the investigation of a diflunisal pharmaceutical co-crystal with improved intrinsic dissolution rate. International Journal of Pharmaceutics, 2014, 466, 68-75.	5.2	36
32	A New Molecular Modeling Approach To Predict Concomitant Nucleation of Polymorphs. Crystal Growth and Design, 2002, 2, 351-356.	3.0	34
33	Solubility Determination from Clear Points upon Solvent Addition. Organic Process Research and Development, 2015, 19, 1004-1011.	2.7	33
34	Mechanism and Kinetics of the Polymorphic Transformation of o-Aminobenzoic Acid. Crystal Growth and Design, 2010, 10, 2123-2128.	3.0	32
35	Polymorphism Control through a Single Nucleation Event. Crystal Growth and Design, 2014, 14, 1493-1499.	3.0	32
36	On the Reliability of Sensitivity Test Methods for Submicrometer-Sized RDX and HMX Particles. Propellants, Explosives, Pyrotechnics, 2013, 38, 761-769.	1.6	31

#	Article	IF	Citations
37	Template-Induced Nucleation of Isonicotinamide Polymorphs. Crystal Growth and Design, 2014, 14, 1135-1141.	3.0	31
38	Fundamentals of Industrial Crystallization. , 2015, , 1317-1349.		31
39	Molecular modelling of the crystallization of polymorphs. Part I: The morphology of HMX polymorphs. Journal of Crystal Growth, 2002, 237-239, 2215-2220.	1.5	30
40	Particle Breakage Kinetics and Mechanisms in Attrition-Enhanced Deracemization. Crystal Growth and Design, 2018, 18, 3051-3061.	3.0	28
41	Molecular modelling of the transport behaviour of C3 and C4 gases through the zeolite DD3R. Microporous and Mesoporous Materials, 2002, 53, 45-57.	4.4	26
42	Development of an Experimental Method to Measure Nucleation Rates in Reactive Precipitation. Crystal Growth and Design, 2004, 4, 921-928.	3.0	26
43	Self-Association during Heterogeneous Nucleation onto Well-Defined Templates. Langmuir, 2014, 30, 12368-12375.	3.5	25
44	The potential of milk fat for the synthesis of valuable derivatives. European Food Research and Technology, 2011, 232, 1-8.	3.3	24
45	Cocrystals of Praziquantel: Discovery by Network-Based Link Prediction. Crystal Growth and Design, 2021, 21, 3428-3437.	3.0	24
46	Polymorph Formation Studied by 3D Nucleation Simulations. Application to a Yellow Isoxazolone Dye, Paracetamol, andl-Glutamic Acid. Journal of Physical Chemistry B, 2007, 111, 1523-1530.	2.6	23
47	Lipase-Catalyzed Ethanolysis of Milk Fat with a Focus on Short-Chain Fatty Acid Selectivity. Journal of Agricultural and Food Chemistry, 2009, 57, 116-121.	5.2	23
48	Coupling Viedma Ripening with Racemic Crystal Transformations: Mechanism of Deracemization. Crystal Growth and Design, 2017, 17, 4965-4976.	3.0	23
49	Continuous Total Spontaneous Resolution. Crystal Growth and Design, 2017, 17, 4428-4436.	3.0	23
50	Electrochemically induced co-crystallization for product removal. CrystEngComm, 2011, 13, 2817-2819.	2.6	22
51	Combining Incompatible Processes for Deracemization of a Praziquantel Derivative under Flow Conditions. Angewandte Chemie - International Edition, 2021, 60, 5279-5282.	13.8	22
52	Determining the nucleation rate from the dimer growth probability. Journal of Chemical Physics, 2005, 123, 114507.	3.0	21
53	Assessing Crystallisation Kinetics of Zr Metalâ€“Organic Frameworks through Turbidity Measurements to Inform Rapid Microwaveâ€Assisted Synthesis. Chemistry - A European Journal, 2020, 26, 6910-6918.	3.3	21
54	Growth rate dispersion of ammonium sulphate attrition fragments. Journal of Crystal Growth, 2005, 275, e1397-e1401.	1.5	20

#	Article	IF	Citations
55	Production of microparticles from milk fat products using the Supercritical Melt Micronization (ScMM) process. Journal of Supercritical Fluids, 2011, 55, 1079-1088.	3.2	20
56	Intensified crystallization in complex media: Heuristics for crystallization of platform chemicals. Chemical Engineering Science, 2012, 77, 18-25.	3.8	20
57	Microwave-Assisted Evaporative Crystallization of Niflumic Acid for Particle Size Reduction. Crystal Growth and Design, 2013, 13, 4186-4189.	3.0	20
58	Scaling Up Temperature Cycling-Induced Deracemization by Suppressing Nonstereoselective Processes. Crystal Growth and Design, 2018, 18, 3008-3015.	3.0	19
59	Nucleus size and Zeldovich factor in two-dimensional nucleation at the Kossel crystal (001) surface. Surface Science, 2005, 574, 77-88.	1.9	18
60	Template Induced Crystallization: A Relation between Template Properties and Template Performance. Crystal Growth and Design, 2009, 9, 2762-2769.	3.0	18
61	Protein self-interaction chromatography on a microchip. Lab on A Chip, 2009, 9, 600-605.	6.0	18
62	Integrated product removal of slightly water-soluble carboxylates from fermentation by electrochemically induced crystallization. Journal of Membrane Science, 2010, 363, 36-47.	8.2	18
63	Analysis of submicron-sized niflumic acid crystals prepared by electrospray crystallization. Journal of Pharmaceutical and Biomedical Analysis, 2013, 76, 1-7.	2.8	18
64	Solvent and additive interactions as determinants in the nucleation pathway: general discussion. Faraday Discussions, 2015, 179, 383-420.	3.2	18
65	On the Effect of Secondary Nucleation on Deracemization through Temperature Cycles. Chemistry - A European Journal, 2020, 26, 1344-1354.	3.3	18
66	Simultaneous Chiral Resolution of Two Racemic Compounds by Preferential Cocrystallization**. Angewandte Chemie - International Edition, 2021, 60, 20264-20268.	13.8	18
67	The role of temperature in nucleation processes. Journal of Chemical Physics, 2011, 134, 054703.	3.0	17
68	Cold plasma synthesis of high quality organic nanoparticles at atmospheric pressure. Journal of Nanoparticle Research, 2013, 15, 1.	1.9	17
69	Towards Deracemization in the Absence of Grinding through Crystal Transformation, Ripening, and Racemization. Crystal Growth and Design, 2017, 17, 882-890.	3.0	17
70	Enabling Direct Preferential Crystallization in a Stable Racemic Compound System. Molecular Pharmaceutics, 2019, 16, 4670-4676.	4.6	17
71	Effect of additives on the preferential crystallization of L-asparagine monohydrate. European Physical Journal: Special Topics, 2017, 226, 823-835.	2.6	16
72	Measuring Secondary Nucleation through Single Crystal Seeding. Crystal Growth and Design, 2019, 19, 421-429.	3.0	16

#	Article	IF	Citations
73	Screening Approach for Identifying Cocrystal Types and Resolution Opportunities in Complex Chiral Multicomponent Systems. Crystal Growth and Design, 2021, 21, 112-124.	3.0	16
74	Rate of Two-Dimensional Nucleation: Verifying Classical and Atomistic Theories by Monte Carlo Simulation. Journal of Physical Chemistry B, 2008, 112, 8614-8618.	2.6	15
75	Solubility of Fumaric Acid and Its Monosodium Salt. Industrial & Engineering Chemistry Research, 2013, 52, 9454-9460.	3.7	15
76	An Analysis of Mixing in a Typical Experimental Set-up to Measure Nnucleation Rates of Precipitation Processes. Chemical Engineering and Technology, 2003, 26, 296-303.	1.5	14
77	Resolution Control in a Continuous Preferential Crystallization Process. Organic Process Research and Development, 2019, 23, 2031-2041.	2.7	14
78	On the Aggregation and Nucleation Mechanism of the Monoclonal Antibody Anti-CD20 Near Liquid-Liquid Phase Separation (LLPS). Scientific Reports, 2020, 10, 8902.	3.3	14
79	The unexpected formation of the stable beta phase of l-glutamic acid during pH-shift precipitation. Journal of Crystal Growth, 2005, 275, e1389-e1395.	1.5	13
80	A process for the production of a diacylglycerol-based milk fat analogue. European Journal of Lipid Science and Technology, 2011, 113, 459-468.	1.5	13
81	Understanding crystal nucleation mechanisms: where do we stand? General discussion. Faraday Discussions, 0, 235, 219-272.	3.2	13
82	Co-crystals of diflunisal and isomeric pyridinecarboxamides â€“ a thermodynamics and crystal engineering contribution. CrystEngComm, 2016, 18, 4749-4759.	2.6	12
83	Toward Continuous Deracemization via Racemic Crystal Transformation Monitored by in Situ Raman Spectroscopy. Crystal Growth and Design, 2019, 19, 5858-5868.	3.0	12
84	The unexpected dominance of secondary over primary nucleation. Faraday Discussions, 2022, 235, 109-131.	3.2	12
85	Screening for templates that promote crystallization. Food and Bioproducts Processing, 2008, 86, 116-121.	3.6	11
86	Prenucleation Selfâ€Assembly and Chiral Discrimination Mechanisms during Solution Crystallisation of Racemic Diprophylline. Chemistry - A European Journal, 2016, 22, 16103-16112.	3.3	11
87	Avoiding crystallization of lorazepam during infusion. European Journal of Pharmaceutical Sciences, 2011, 44, 621-6.	4.0	10
88	Biofunctionalization and self-interaction chromatography in PDMS microchannels. Biochemical Engineering Journal, 2012, 67, 111-119.	3.6	10
89	Extending the SAFT-<mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" altimg="si1.svg"><mml:mi>Î³</mml:mi></mml:math> Mie approach to model benzoic acid, diphenylamine, and mefenamic acid: Solubility prediction and experimental measurement. Fluid Phase Equilibria, 2021, 540, 113002.	2.5	10
90	Co-crystals of non-steroidal anti-inflammatory drugs (NSAIDs): Insight toward formation, methods, and drug enhancement. Particuology, 2021, 58, 227-241.	3.6	10

#	Article	IF	Citations
91	Solid Separation from a Mixed Suspension through Electricâ€Fieldâ€Enhanced Crystallization. Angewandte Chemie - International Edition, 2016, 55, 16088-16091.	13.8	9
92	Towards a Crystalline Product Quality Prediction Method by Combining Process Modeling and Molecular Simulations. Chemical Engineering and Technology, 2006, 29, 175-181.	1.5	8
93	Atmospheric Pressure Cold Plasma Synthesis of Submicrometer-Sized Pharmaceuticals with Improved Physicochemical Properties. Crystal Growth and Design, 2012, 12, 5090-5095.	3.0	8
94	9. Solution co-crystallisation and its applications. , 2017, , 205-236.		8
95	Impact of Impurities on Crystallization and Product Quality: A Case Study with Paracetamol. Crystals, 2021, 11, 1344.	2.2	8
96	Time and space resolved methods: general discussion. Faraday Discussions, 2015, 179, 247-267.	3.2	7
97	Particle Size Distributions and Performance of Preferential Crystallization of Lâ€AsparagineÂ·H₂O with Tailorâ€Made Additives. Chemical Engineering and Technology, 2018, 41, 1173-1179.	1.5	7
98	Manipulating Cocrystal Size and Morphology using a Combination of Temperature Cycling and Additives. Crystal Growth and Design, 2021, 21, 1496-1506.	3.0	7
99	Process modeling and optimization of continuous chiral resolution by integration of membrane and crystallization technologies. Journal of Membrane Science, 2021, 632, 119359.	8.2	7
100	Adsorption behaviour of polyelectrolytes on calcium fluoride. Colloids and Surfaces A: Physicochemical and Engineering Aspects, 1999, 154, 273-284.	4.7	6
101	Synthesis and isolation of addedâ€value milk fat derivatives using lipaseâ€catalyzed reactions and supercritical carbon dioxide. Lipid Technology, 2010, 22, 54-57.	0.3	6
102	Nucleation in complex multi-component and multi-phase systems: general discussion. Faraday Discussions, 2015, 179, 503-542.	3.2	6
103	The use of selfâ€interaction chromatography in stable formulation and crystallization of proteins. Biotechnology Journal, 2009, 4, 1266-1277.	3.5	5
104	Concomitant crystallization for in situ encapsulation of organic materials. Chemical Engineering and Processing: Process Intensification, 2014, 80, 11-20.	3.6	5
105	Crystal Nucleation of Small Organic Molecules. , 2017, , 317-337.		5
106	Adsorption behaviour of polyelectrolytes on calcium fluoride. Colloids and Surfaces A: Physicochemical and Engineering Aspects, 1999, 154, 259-271.	4.7	4
107	Electrochemically Induced Crystallization as a Sustainable Method for Product Recovery of Building Block Chemicals: Techno-Economic Evaluation of Fumaric Acid Separation. Industrial Biotechnology, 2012, 8, 133-151.	0.8	4
108	Easy-to-Use Osmosis-Based Microfluidic Chip for Protein Crystallization: Application to a Monoclonal Antibody. Crystal Growth and Design, 2021, 21, 3469-3476.	3.0	4

#	Article	IF	Citations
109	Nanoparticle generation by intensified solution crystallization using cold plasma. Chemical Engineering and Processing: Process Intensification, 2013, 71, 51-58.	3.6	3
110	Enabling Mechanical Separation of Enantiomers through Controlled Batchwise Concomitant Crystallization: Digital Design and Experimental Validation. Crystal Growth and Design, 2020, 20, 7726-7741.	3.0	3
111	Fungicide Precursor Racemization Kinetics for Deracemization in Complex Systems. European Journal of Organic Chemistry, 2021, 2021, 473-482.	2.4	3
112	Template-Assisted Crystallization Behavior in Stirred Solutions of the Monoclonal Antibody Anti-CD20: Probability Distributions of Induction Times. Crystal Growth and Design, 2022, 22, 3637-3645.	3.0	3
113	Industrial Crystallization: Fundamental Understanding for Challenges Ahead. Chemical Engineering and Technology, 2012, 35, 965-965.	1.5	2
114	Effect of Chirality on the Compression of 2-(2-Oxo-1-pyrrolidinyl)butyramide: A Tale of Two Crystals. Crystal Growth and Design, 2020, 20, 6731-6744.	3.0	2
115	Combining Incompatible Processes for Deracemization of a Praziquantel Derivative under Flow Conditions. Angewandte Chemie, 2021, 133, 5339-5342.	2.0	2
116	Co-crystal Phase Diagram Determination by the Solution Addition Method. Crystal Growth and Design, 2022, 22, 3376-3384.	3.0	2
117	Immobilization of gluten in spherical matrices of foodâ€grade hydrogels. Journal of Food Process Engineering, 2017, 40, e12534.	2.9	1
118	Simultaneous Chiral Resolution of Two Racemic Compounds by Preferential Cocrystallization**. Angewandte Chemie, 2021, 133, 20426-20430.	2.0	1