StÃ©phane Veesler

List of Publications by Year
in descending order

113 papers	3,444 citations	116194 36 h-index	214428 50 g-index
114 all docs	114 docs citations	114 times ranked	3351 citing authors

#	Article	IF	Citations
1	Nucleation in sessile saline microdroplets: induction time measurement via deliquescenceâ€“recrystallization cycling. Faraday Discussions, 2022, 235, 183-197.	1.6	9
2	Preparation of alginate hydrogel microparticles by gelation introducing cross-linkers using droplet-based microfluidics: a review of methods. Biomaterials Research, 2021, 25, 41.	3.2	24
3	A microfluidic method generating monodispersed microparticles with controllable sizes and mechanical properties. Chemical Engineering Science, 2020, 211, 115322.	1.9	8
4	Solubilities and Crystallization of Olanzapine Using a Multi-Well Setup: The Effect of Solvents and Cooling Rates. Journal of Solution Chemistry, 2020, 49, 1170-1185.	0.6	0
5	Microfluidics Platform for Polymorph Screening Directly from Powder. Crystal Growth and Design, 2020, 20, 3882-3887.	1.4	5
6	Multiscale Experimental Study and Modeling of <scp>l</scp>-Glutamic acid Crystallization: Emphasis on a Kinetic Explanation of the Ostwald Rule of Stages. Crystal Growth and Design, 2019, 19, 3329-3337.	1.4	9
7	Advances in the Use of Microfluidics to Study Crystallization Fundamentals. Annual Review of Chemical and Biomolecular Engineering, 2019, 10, 59-83.	3.3	14
8	Microfluidics Setup Rapidly Measures Solubility Directly from Powder. Organic Process Research and Development, 2018, 22, 1856-1860.	1.3	7
9	A parameter to probe microdroplet dynamics and crystal nucleation. AIP Advances, 2018, 8, .	0.6	7
10	A Chemical Library to Screen Protein and Proteinâ€“Ligand Crystallization Using a Versatile Microfluidic Platform. Crystal Growth and Design, 2018, 18, 5130-5137.	1.4	18
11	Microfluidic platform for optimization of crystallization conditions. Journal of Crystal Growth, 2017, 472, 18-28.	0.7	31
12	In Situ Observation of Polymorphic Transition during Crystallization of Organic Compounds Showing Preferential Enrichment By Means Of Temperature-Controlled Video-Microscopy and Time-Resolved X-ray Powder Diffraction. Crystal Growth and Design, 2017, 17, 671-676.	1.4	11
13	Crystallization via tubing microfluidics permits both in situ and ex situ X-ray diffraction. Acta Crystallographica Section F, Structural Biology Communications, 2017, 73, 574-578.	0.4	15
14	Solvent screening and crystal habit of metformin hydrochloride. Journal of Crystal Growth, 2016, 451, 42-51.	0.7	30
15	Localizing and inducing primary nucleation. Faraday Discussions, 2015, 179, 489-501.	1.6	25
16	Molecular self-assembly and clustering in nucleation processes: general discussion. Faraday Discussions, 2015, 179, 155-197.	1.6	10
17	Solvent and additive interactions as determinants in the nucleation pathway: general discussion. Faraday Discussions, 2015, 179, 383-420.	1.6	18
18	Nucleation in complex multi-component and multi-phase systems: general discussion. Faraday Discussions, 2015, 179, 503-542.	1.6	6

#	Article	IF	Citations
19	Versatile Microfluidic Approach to Crystallization. Organic Process Research and Development, 2015, 19, 1837-1841.	1.3	20
20	Prediction of sizes and frequencies of nanoliter-sized droplets in cylindrical T-junction microfluidics. Chemical Engineering Science, 2015, 138, 128-139.	1.9	25
21	Crystallization of Pharmaceutical Crystals. , 2015, , 915-949.		6
22	Addressing the Stochasticity of Nucleation: Practical Approaches. , 2015, , 95-113.		2
23	Transient Calcium Carbonate Hexahydrate (Ikaite) Nucleated and Stabilized in Confined Nano- and Picovolumes. Crystal Growth and Design, 2014, 14, 792-802.	1.4	28
24	Highly Efficient Chiral Resolution of <scp>dl</scp>â€Arginine by Cocrystal Formation Followed by Recrystallization under Preferentialâ€Enrichment Conditions. Chemistry - A European Journal, 2014, 20, 10343-10350.	1.7	31
25	Investigating the dissolution of the metastable triclinic polymorph of carbamazepine using in situ microscopy. CrystEngComm, 2014, 16, 4133-4141.	1.3	14
26	Solution cocrystallization, an effective tool to explore the variety of cocrystal systems: caffeine/dicarboxylic acid cocrystals. CrystEngComm, 2014, 16, 9603-9611.	1.3	32
27	Experimental Demonstration of the Carbamazepine Crystallization from Non-photochemical Laser-Induced Nucleation in Acetonitrile and Methanol. Crystal Growth and Design, 2014, 14, 3286-3299.	1.4	42
28	Heterogeneous Nucleation in Droplet-Based Nucleation Measurements. Crystal Growth and Design, 2013, 13, 2107-2110.	1.4	27
29	Monitoring Picoliter Sessile Microdroplet Dynamics Shows That Size Does Not Matter. Langmuir, 2013, 29, 12628-12632.	1.6	14
30	Small-volume nucleation. Comptes Rendus Physique, 2013, 14, 192-198.	0.3	23
31	Investigation into the Mechanism of Solution-Mediated Transformation from FI to FIII Carbamazepine: The Role of Dissolution and the Interaction between Polymorph Surfaces. Crystal Growth and Design, 2013, 13, 1861-1871.	1.4	41
32	Measuring the Solubility of a Quickly Transforming Metastable Polymorph of Carbamazepine. Organic Process Research and Development, 2013, 17, 512-518.	1.3	27
33	Microcrystals with Enhanced Emission Prepared from Hydrophobic Analogues of the Green Fluorescent Protein Chromophore via Reprecipitation. Langmuir, 2013, 29, 14718-14727.	1.6	29
34	Practical Physics Behind Growing Crystals of Biological Macromolecules. Protein and Peptide Letters, 2012, 19, 714-724.	0.4	22
35	A Cheap, Easy Microfluidic Crystallization Device Ensuring Universal Solvent Compatibility. Organic Process Research and Development, 2012, 16, 556-560.	1.3	48
36	Nucleation and polymorphism explored via an easy-to-use microfluidic tool. Journal of Crystal Growth, 2012, 342, 9-12.	0.7	60

#	Article	IF	Citations
37	Sea water desalination by dynamic layer melt crystallization: Parametric study of the freezing and sweating steps. Journal of Crystal Growth, 2012, 342, 110-116.	0.7	64
38	Importance of Solvent Selection for Stoichiometrically Diverse Cocrystal Systems: Caffeine/Maleic Acid 1:1 and 2:1 Cocrystals. Crystal Growth and Design, 2012, 12, 1520-1530.	1.4	69
39	Using Microfluidics for Fast, Accurate Measurement of Lysozyme Nucleation Kinetics. Crystal Growth and Design, 2011, 11, 1527-1530.	1.4	54
40	Nucleation Control and Rapid Growth of KDP Crystals in Stationary Conditions. Crystal Growth and Design, 2011, 11, 2592-2598.	1.4	20
41	Thermal analysis: A further step in characterizing solid forms obtained by screening crystallization of an API. International Journal of Pharmaceutics, 2011, 403, 29-36.	2.6	9
42	Generating nanoliter to femtoliter microdroplets with ease. Applied Physics Letters, 2011, 98, .	1.5	20
43	Predictive Nucleation of Crystals in Small Volumes and Its Consequences. Physical Review Letters, 2011, 107, 025504.	2.9	28
44	Ultra-fast crystallization due to confinement. Journal of Crystal Growth, 2010, 312, 487-489.	0.7	23
45	Usual and unusual crystallization from solution. Journal of Crystal Growth, 2010, 312, 939-946.	0.7	70
46	The 2C putative helicase of echovirus 30 adopts a hexameric ring-shaped structure. Acta Crystallographica Section D: Biological Crystallography, 2010, 66, 1116-1120.	2.5	17
47	Freezing desalination of sea water in a static layer crystallizer. Desalination and Water Treatment, 2010, 13, 120-127.	1.0	41
48	New approaches on crystallization under electric fields. Progress in Biophysics and Molecular Biology, 2009, 101, 38-44.	1.4	59
49	Polymorphism in Processes of Crystallization in Solution: A Practical Review. Organic Process Research and Development, 2009, 13, 1241-1253.	1.3	157
50	A Rapid Method for Screening Crystallization Conditions and Phases of an Active Pharmaceutical Ingredient. Organic Process Research and Development, 2009, 13, 1338-1342.	1.3	20
51	Spatial and Temporal Control of Nucleation by Localized DC Electric Field. Crystal Growth and Design, 2009, 9, 3346-3347.	1.4	19
52	Measuring Enthalpy of Sublimation for Active Pharmaceutical Ingredients: Validate Crystal Energy and Predict Crystal Habit. Crystal Growth and Design, 2009, 9, 4706-4709.	1.4	11
53	Reaching One Single and Stable Critical Cluster through Finite-Sized Systems. Crystal Growth and Design, 2009, 9, 1917-1922.	1.4	65
54	Crystallization mechanisms of acicular crystals. Journal of Crystal Growth, 2008, 310, 110-115.	0.7	42

#	Article	IF	Citations
55	Using Temperature To Crystallize Proteins: A Mini-Review. Crystal Growth and Design, 2008, 8, 4215-4219.	1.4	49
56	The Evolution of Crystal Shape During Dissolution: Predictions and Experiments. Crystal Growth and Design, 2008, 8, 1100-1101.	1.4	42
57	Protein Crystallization Induced by a Localized Voltage. Crystal Growth and Design, 2007, 7, 1472-1475.	1.4	50
58	Photochemically induced nucleation in supersaturated and undersaturated thaumatin solutions. Journal of Photochemistry and Photobiology A: Chemistry, 2007, 190, 88-93.	2.0	20
59	Crystals from Light:â€‰ Photochemically Induced Nucleation of Hen Egg-White Lysozyme. Crystal Growth and Design, 2006, 6, 1631-1635.	1.4	43
60	Polymorphism of Urate Oxidase in PEG Solutions. Crystal Growth and Design, 2006, 6, 287-292.	1.4	22
61	Crystallization in the Presence of a Liquidâ^'Liquid Phase Separation. Organic Process Research and Development, 2006, 10, 841-845.	1.3	81
62	Exploring Bovine Pancreatic Trypsin Inhibitor Phase Transitions. Journal of Physical Chemistry B, 2006, 110, 19664-19670.	1.2	24
63	MPCD: a new interactive on-line crystallization data bank for screening strategies. Acta Crystallographica Section D: Biological Crystallography, 2006, 62, 1311-1318.	2.5	22
64	Modeling of the dissolution of a pharmaceutical compound. Journal of Crystal Growth, 2006, 286, 121-125.	0.7	23
65	Pharmaceutical Compound Crystallization: Growth Mechanism of Needle-Like Crystals. Chemical Engineering and Technology, 2006, 29, 239-246.	0.9	18
66	Light-Induced Nucleation of Metastable Hen Egg-White Lysozyme Solutions. Crystal Growth and Design, 2005, 5, 1393-1398.	1.4	59
67	Protein crystallization: Contribution of small angle X-ray scattering (SAXS). European Physical Journal Special Topics, 2004, 118, 3-13.	0.2	7
68	Study of liquidâ€“liquid demixing from drug solution. Journal of Crystal Growth, 2004, 269, 550-557.	0.7	67
69	In Situ Monitoring of the Impact of Liquidâ^'Liquid Phase Separation on Drug Crystallization by Seeding. Crystal Growth and Design, 2004, 4, 1175-1180.	1.4	52
70	Temperature and pH Effect on the Polymorphism of Aprotinin (BPTI) in Sodium Bromide Solutions. Crystal Growth and Design, 2004, 4, 1137-1141.	1.4	36
71	Polymorphism and Liquid-Liquid Demixing in Supersaturated Drug Solution. Engineering in Life Sciences, 2003, 3, 127-131.	2.0	18
72	The influence of organic additives on the crystallization and agglomeration of gibbsite. Powder Technology, 2003, 130, 345-351.	2.1	34

#	Article	IF	Citations
73	Polymorphicâ€“polytypic transition induced in crystals by interaction of spirals and 2D growth mechanisms. Journal of Crystal Growth, 2003, 247, 541-550.	0.7	11
74	Phase Transitions in Supersaturated Drug Solution. Organic Process Research and Development, 2003, 7, 983-989.	1.3	115
75	BPTI liquid-liquid phase separation monitored by light and small angle X-ray scattering. Acta Crystallographica Section D: Biological Crystallography, 2002, 58, 1560-1563.	2.5	23
76	pH-dependent oligomerization of BPTI in undersaturated and supersaturated solutions studied by dynamic light scattering. Journal of Crystal Growth, 2002, 237-239, 289-294.	0.7	9
77	Investigation of aprotinin (BPTI) solutions during nucleation. Journal of Crystal Growth, 2002, 235, 547-554.	0.7	9
78	Dissolution and phase transition of pharmaceutical compounds. Journal of Crystal Growth, 2002, 237-239, 2233-2239.	0.7	25
79	Crystallization of a recombinant form of the complete sequence of human Î³-interferon: characterization by small-angle X-ray scattering, mass spectrometry and preliminary X-ray diffraction studies. Acta Crystallographica Section D: Biological Crystallography, 2001, 57, 900-905.	2.5	1
80	Î±-amylase crystal growth investigated by in situ atomic force microscopy. Journal of Crystal Growth, 2001, 226, 294-302.	0.7	28
81	The Crystallization of BPTI at acidic pH: a Decamer Story. Acta Crystallographica Section A: Foundations and Advances, 2000, 56, s114-s114.	0.3	0
82	Modelling gibbsite agglomeration in a constant supersaturation crystallizer. Chemical Engineering Science, 2000, 55, 5565-5578.	1.9	29
83	Comparison of solubility and interactions of aprotinin (BPTI) solutions in H2O and D2O. Journal of Crystal Growth, 2000, 217, 311-319.	0.7	20
84	The BPTI decamer observed in acidic pH crystal forms pre-exists as a stable species in solution. Journal of Molecular Biology, 2000, 297, 697-712.	2.0	61
85	Biophysical Characterization of Lithostathine. Journal of Biological Chemistry, 1999, 274, 22266-22274.	1.6	42
86	Relation between Youngâ€™s Modulus of set plaster and complete wetting of grain boundaries by water. Colloids and Surfaces A: Physicochemical and Engineering Aspects, 1999, 156, 373-379.	2.3	21
87	The decameric structure of bovine pancreatic trypsin inhibitor (BPTI) crystallized from thiocyanate at 2.7â€…Ã… resolution. Acta Crystallographica Section D: Biological Crystallography, 1999, 55, 103-113.	2.5	25
88	Nucleation of calcium oxalate crystals by albumin: Involvement in the prevention of stone formation. Kidney International, 1999, 55, 1776-1786.	2.6	65
89	The influence of additives on the crystal habit of gibbsite. Journal of Crystal Growth, 1999, 196, 174-180.	0.7	47
90	Characterization and crystallization of the Endoglucanase A from Clostridium Cellulolyticum in solution. Journal of Crystal Growth, 1999, 196, 297-304.	0.7	13

#	Article	IF	Citations
91	Crystallization and dissolution of pharmaceutical compounds. Journal of Crystal Growth, 1999, 198-199, 1360-1364.	0.7	37
92	Crystallization of gypsum from hemihydrate in presence of additives. Journal of Crystal Growth, 1999, 198-199, 704-709.	0.7	119
93	Agglomeration of gibbsite Al(OH)3 crystals in Bayer liquors. Influence of the process parameters. Chemical Engineering Science, 1998, 53, 2177-2185.	1.9	56
94	Study of Gypsum Dehydration by Controlled Transformation Rate Thermal Analysis (CRTA). Journal of Solid State Chemistry, 1998, 139, 37-44.	1.4	46
95	Protein crystals orientation in a magnetic field. Acta Crystallographica Section D: Biological Crystallography, 1998, 54, 703-706.	2.5	37
96	Different Tools to Study Interaction Potentials in Î³-Crystallin Solutions: Relevance to Crystal Growth. Acta Crystallographica Section D: Biological Crystallography, 1997, 53, 438-447.	2.5	23
97	Comparison of solubilities and molecular interactions of BPTI molecules giving different polymorphs. Journal of Crystal Growth, 1997, 173, 132-140.	0.7	61
98	Calcium Carbonate Crystals Promote Calcium Oxalate Crystallization by Heterogeneous or Epitaxial Nucleation: Possible Involvement in the Control of Urinary Lithogenesis. Calcified Tissue International, 1996, 59, 322-322.	1.5	0
99	Calcium carbonate crystals promote calcium oxalate crystallization by heterogeneous or epitaxial nucleation: Possible involvement in the control of urinary lithogenesis. Calcified Tissue International, 1996, 59, 33-37.	1.5	23
100	A non-immersed induction conductivity system for controlling supersaturation in corrosive media: the case of gibbsite crystals agglomeration in Bayer liquors. Journal of Crystal Growth, 1996, 169, 124-128.	0.7	15
101	Prenucleation, crystal growth and polymorphism of some proteins. Journal of Crystal Growth, 1996, 168, 124-129.	0.7	30
102	Pure Paracetamol for direct compression Part I. Development of sintered-like crystals of Paracetamol. Powder Technology, 1995, 82, 123-128.	2.1	43
103	Pure Paracetamol for direct compression Part II. Study of the physicochemical and mechanical properties of sintered-like crystals of Paracetamol. Powder Technology, 1995, 82, 129-133.	2.1	18
104	Solubility and prenucleation of aprotinin (BPTI) molecules in sodium chloride solutions. Journal of Crystal Growth, 1994, 143, 249-255.	0.7	39
105	General concepts of hydrargillite Al(OH)3, agglomeration. Journal of Crystal Growth, 1994, 135, 505-512.	0.7	23
106	Growth kinetics of hydrargillite Al(OH)3 from caustic soda solutions. Journal of Crystal Growth, 1994, 142, 177-183.	0.7	35
107	Influence of polydispersity on protein crystallization: a quasi-elastic light-scattering study applied to Î±-amylase. Acta Crystallographica Section D: Biological Crystallography, 1994, 50, 355-360.	2.5	25
108	About supersaturation and growth rates of hydrargillite Al(OH)3 in alumina caustic solutions. Journal of Crystal Growth, 1993, 130, 411-415.	0.7	38

#	Article	IF	Citations
109	Attrition of hydrargillite (A1(OH)3): Mechanism and quantification of particle fragility by a new attrition index. Powder Technology, 1993, 75, 49-57.	2.1	12
110	Influence of structure and size of crystalline aggregates on their compression ability. Drug Development and Industrial Pharmacy, 1992, 18, 539-560.	0.9	5
111	Identification of anhydrosucrose derivatives formed by Mitsunobu chlorination of sucrose. Carbohydrate Research, 1989, 190, 309-312.	1.1	7
112	Controlling polymorphism: general discussion. Faraday Discussions, 0, 235, 508-535.	1.6	2
113	Understanding crystal nucleation mechanisms: where do we stand? General discussion. Faraday Discussions, 0, 235, 219-272.	1.6	13