

# Reginald B H Tan

## List of Publications by Year in descending order

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Version: 2024-02-01

57  
papers

1,761  
citations

201385

27  
h-index

276539

41  
g-index

58  
all docs

58  
docs citations

58  
times ranked

2058  
citing authors

#	ARTICLE	IF	CITATIONS
1	Trimorphs of a pharmaceutical cocrystal involving two active pharmaceutical ingredients: potential relevance to combination drugs. <i>CrystEngComm</i> , 2009, 11, 1823-1827.	1.3	134
2	Environmental impacts of conventional plastic and bio-based carrier bags. <i>International Journal of Life Cycle Assessment</i> , 2010, 15, 284-293.	2.2	99
3	Direct Growth of $\beta$ -Glycine from Neutral Aqueous Solutions by Slow, Evaporation-Driven Crystallization. <i>Crystal Growth and Design</i> , 2006, 6, 1746-1749.	1.4	90
4	Modeling and Computational Fluid Dynamics "Population Balance Equation" Micromixing Simulation of Impinging Jet Crystallizers. <i>Crystal Growth and Design</i> , 2009, 9, 156-164.	1.4	82
5	Co-Crystals and Co-Crystal Hydrates of the Antibiotic Nitrofurantoin: Structural Studies and Physicochemical Properties. <i>Crystal Growth and Design</i> , 2012, 12, 5925-5938.	1.4	72
6	Influence of Solution Speciation of Impurities on Polymorphic Nucleation in Glycine. <i>Crystal Growth and Design</i> , 2008, 8, 179-185.	1.4	66
7	Stable polymorphs: difficult to make and difficult to predict. <i>CrystEngComm</i> , 2007, 9, 128.	1.3	62
8	Mechanical properties and antibiotic release characteristics of poly(methyl methacrylate)-based bone cement formulated with mesoporous silica nanoparticles. <i>Journal of the Mechanical Behavior of Biomedical Materials</i> , 2017, 72, 163-170.	1.5	60
9	Environmental impacts of conventional plastic and bio-based carrier bags. <i>International Journal of Life Cycle Assessment</i> , 2010, 15, 338-345.	2.2	59
10	Robust Bayesian estimation of kinetics for the polymorphic transformation of L-glutamic acid crystals. <i>AIChE Journal</i> , 2008, 54, 3248-3259.	1.8	54
11	Impact Assessment of Waste Management Options in Singapore. <i>Journal of the Air and Waste Management Association</i> , 2006, 56, 244-254.	0.9	51
12	Determination of Critical Supersaturation from Microdroplet Evaporation Experiments. <i>Crystal Growth and Design</i> , 2006, 6, 1175-1180.	1.4	49
13	Solid-Supported Hydrothermal Synthesis and Characterization of Alumina Nanofibers with Controllable Aspect Ratios. <i>Journal of the American Ceramic Society</i> , 2009, 92, 1311-1316.	1.9	46
14	Effect of API-Polymer Miscibility and Interaction on the Stabilization of Amorphous Solid Dispersion: A Molecular Simulation Study. <i>Industrial &amp; Engineering Chemistry Research</i> , 2017, 56, 12698-12707.	1.8	45
15	Novel Formulation of Large Hollow Nanoparticles Aggregates as Potential Carriers in Inhaled Delivery of Nanoparticulate Drugs. <i>Industrial &amp; Engineering Chemistry Research</i> , 2006, 45, 3697-3706.	1.8	43
16	Precise tailoring of the crystal size distribution by controlled growth and continuous seeding from impinging jet crystallizers. <i>CrystEngComm</i> , 2011, 13, 2006.	1.3	43
17	Nucleation and growth kinetics estimation for L-phenylalanine hydrate and anhydrate crystallization. <i>CrystEngComm</i> , 2011, 13, 1197.	1.3	40
18	Quality by Design (QbD)-Based Crystallization Process Development for the Polymorphic Drug Tolbutamide. <i>Crystal Growth and Design</i> , 2011, 11, 3027-3038.	1.4	40

#	ARTICLE	IF	CITATIONS
19	Template-induced polymorphic selectivity: the effects of surface chemistry and solute concentration on carbamazepine crystallisation. <i>CrystEngComm</i> , 2014, 16, 4927-4930.	1.3	40
20	Selective Crystallization of the Metastable Anhydrate Form in the Enantiotropic Pseudo-Dimorph System of L-Phenylalanine using Concentration Feedback Control. <i>Crystal Growth and Design</i> , 2009, 9, 3052-3061.	1.4	38
21	Anisotropic Crystal Growth Inhibition by Polymeric Additives: Impact on Modulation of Naproxen Crystal Shape and Size. <i>Crystal Growth and Design</i> , 2017, 17, 4844-4854.	1.4	37
22	Template-induced nucleation for controlling crystal polymorphism: from molecular mechanisms to applications in pharmaceutical processing. <i>CrystEngComm</i> , 2019, 21, 4122-4135.	1.3	37
23	Crystal Engineering of Tegafur Cocrystals: Structural Analysis and Physicochemical Properties. <i>Crystal Growth and Design</i> , 2014, 14, 6557-6569.	1.4	35
24	Establishing template-induced polymorphic domains for API crystallisation: the case of carbamazepine. <i>CrystEngComm</i> , 2015, 17, 6384-6392.	1.3	33
25	Crystallizing Micronized Particles of a Poorly Water-Soluble Active Pharmaceutical Ingredient: Nucleation Enhancement by Polymeric Additives. <i>Crystal Growth and Design</i> , 2016, 16, 749-758.	1.4	32
26	Synergistic combination dry powders for inhaled antimicrobial therapy: Formulation, characterization and in vitro evaluation. <i>European Journal of Pharmaceutics and Biopharmaceutics</i> , 2013, 83, 275-284.	2.0	31
27	Nucleation of Elusive Crystal Polymorphs at the Solution-Substrate Contact Line. <i>Crystal Growth and Design</i> , 2013, 13, 1180-1186.	1.4	30
28	Implementation of Focused Beam Reflectance Measurement (FBRM) in Antisolvent Crystallization to Achieve Consistent Product Quality. <i>Crystal Growth and Design</i> , 2010, 10, 3668-3674.	1.4	27
29	Conformational Polymorphs of a Muscle Relaxant, Metaxalone. <i>Crystal Growth and Design</i> , 2011, 11, 4101-4109.	1.4	24
30	Clay as a matrix former for spray drying of drug nanosuspensions. <i>International Journal of Pharmaceutics</i> , 2014, 465, 83-89.	2.6	23
31	Operating Strategy to Produce Consistent CSD in Combined Antisolvent-Cooling Crystallization Using FBRM. <i>Industrial &amp; Engineering Chemistry Research</i> , 2012, 51, 13773-13783.	1.8	22
32	Application of transglycosylated stevia and hesperidin as drug carriers to enhance biopharmaceutical properties of poorly-soluble artemisinin. <i>Colloids and Surfaces B: Biointerfaces</i> , 2018, 161, 83-93.	2.5	20
33	Precise Habit Modification of Polar D-Alanine Crystal by Control of Supersaturation. <i>Crystal Growth and Design</i> , 2011, 11, 3941-3946.	1.4	18
34	The Effect and Counter-Effect of Impurities on Crystallization of an Agrochemical Active Ingredient: Stereochemical Rationalization and Nanoscale Crystal Growth Visualization. <i>Crystal Growth and Design</i> , 2011, 11, 492-500.	1.4	18
35	A novel inhaled multi-pronged attack against respiratory bacteria. <i>European Journal of Pharmaceutical Sciences</i> , 2015, 70, 37-44.	1.9	17
36	Effects of Common Inorganic Salts on Glycine Polymorphic Transformation: An Insight into Salt-Dependent Polymorphic Selectivity. <i>Crystal Growth and Design</i> , 2016, 16, 6499-6505.	1.4	17

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37	Dissolution and physicochemical stability enhancement of artemisinin and mefloquine co-formulation via nano-confinement with mesoporous SBA-15. <i>Colloids and Surfaces B: Biointerfaces</i> , 2017, 155, 560-568.	2.5	16
38	Tailored Antibiotic Combination Powders for Inhaled Rotational Antibiotic Therapy. <i>Journal of Pharmaceutical Sciences</i> , 2016, 105, 1501-1512.	1.6	15
39	Design Space for Polymorphic Co-crystallization: Incorporating Process Model Uncertainty and Operational Variability. <i>Crystal Growth and Design</i> , 2014, 14, 3949-3957.	1.4	14
40	Particle Size Control in Batch Crystallization of Pyrazinamide on Different Scales. <i>Organic Process Research and Development</i> , 2016, 20, 2100-2107.	1.3	12
41	Online Classification of Mixed Co-Crystal and Solute Suspensions using Raman Spectroscopy. <i>Organic Process Research and Development</i> , 2016, 20, 1068-1074.	1.3	12
42	Understanding the Salt-Dependent Outcome of Glycine Polymorphic Nucleation. <i>Pharmaceutics</i> , 2021, 13, 262.	2.0	12
43	A model for bubble-bubble and bubble-wall interaction in bubble formation. <i>AIChE Journal</i> , 2006, 52, 86-98.	1.8	8
44	Experimental Studies of Hydrodynamics and Regime Transition in Bubble Columns. <i>Canadian Journal of Chemical Engineering</i> , 2006, 84, 63-72.	0.9	8
45	Characterisation framework development for the SIMPASS (Singapore IMPact ASSEssment) methodology. <i>International Journal of Life Cycle Assessment</i> , 2012, 17, 89-95.	2.2	6
46	Probing the Mechanisms Underlying Electrolyte-Assisted Nucleation Enhancement of $\alpha$ -Alanine. <i>Crystal Growth and Design</i> , 2014, 14, 1406-1411.	1.4	6
47	Interfacial Element Modeling of Bubble Formation with Liquid Viscosity. <i>Journal of Chemical Engineering of Japan</i> , 2005, 38, 478-485.	0.3	5
48	Investigation of Drying Geldart D and B Particles in Different Fluidization Regimes. <i>Canadian Journal of Chemical Engineering</i> , 2008, 84, 656-662.	0.9	4
49	Inhaled mucoactive particles with tailored architecture for enhanced aerodynamicity, stability and efficacy. <i>International Journal of Pharmaceutics</i> , 2019, 572, 118740.	2.6	3
50	The New International Standards for Life Cycle Assessment: ISO 14040 and ISO 14044. <i>Journal of Life Cycle Assessment Japan</i> , 2007, 3, 58-64.	0.0	2
51	Relating Alkyl Chain Length of Additives to Wax Crystallization Inhibition: Toward the Rational Design of Pour Point Depressants. <i>Crystal Growth and Design</i> , 2022, 22, 4031-4042.	1.4	2
52	Theoretical Modeling of Bubbling Regimes in Bubble Formation with Bubble-Bubble and Bubble-Wall Interactions. <i>Journal of Chemical Engineering of Japan</i> , 2008, 41, 453-459.	0.3	1
53	Synergistic combination dry powders for inhaled antimicrobial therapy. , 2013, , .		1
54	A Non-Spherical Model for Bubble Formation with Chemical Reaction at a Submerged Orifice. <i>Journal of Chemical Engineering of Japan</i> , 2008, 41, 953-960.	0.3	0

#	ARTICLE	IF	CITATIONS
55	Visualizing powder de-agglomeration upon impact with simultaneous flowing charge behaviour. , 2013, , .		0
56	Reply to the "Comment on "Trimorphs of a pharmaceutical cocrystal involving two active pharmaceutical ingredients: potential relevance to combination drugs" by S. Aitipamula, P. S. Chow and R. B. H. Tan, <i>CrystEngComm</i>, 2009, <b>11</b>, 1823"™. CrystEngComm, 2018, 20, 373-374.	1.3	0
57	Life Cycle Assessment Methodology: Ongoing Developments and Outlook. , 2022, , 1-21.		0