Raj Suryanarayanan

List of Publications by Year in Descending Order

Source: https://exaly.com/author-pdf/5421353/raj-suryanarayanan-publications-by-year.pdf

Version: 2024-04-20

This document has been generated based on the publications and citations recorded by exaly.com. For the latest version of this publication list, visit the link given above.

The third column is the impact factor (IF) of the journal, and the fourth column is the number of citations of the article.

168 4,743 41 57 h-index g-index citations papers 6.03 176 5,357 4.9 avg, IF L-index ext. citations ext. papers

#	Paper	IF	Citations
168	Role of arginine salts in preventing freezing-induced increase in subvisible particles in protein formulations <i>International Journal of Pharmaceutics</i> , 2022 , 619, 121694	6.5	O
167	Pressure and Temperature Induced Dual Responsive Molecular Crystals: Effect of Polymorphism. <i>Crystal Growth and Design</i> , 2022 , 22, 615-624	3.5	1
166	Use of Atomic Force Microscopy (AFM) to monitor surface crystallization in caffeine-oxalic acid (CAFOXA) cocrystal compacts. <i>International Journal of Pharmaceutics</i> , 2021 , 609, 121196	6.5	O
165	Reversible Self-Association in Lactate Dehydrogenase during Freeze-Thaw in Buffered Solutions Using Neutron Scattering. <i>Molecular Pharmaceutics</i> , 2021 , 18, 4459-4474	5.6	2
164	Applications of synchrotron powder X-ray diffractometry in drug substance and drug product characterization. <i>TrAC - Trends in Analytical Chemistry</i> , 2021 , 136, 116181	14.6	5
163	Stabilizers and their interaction with formulation components in frozen and freeze-dried protein formulations. <i>Advanced Drug Delivery Reviews</i> , 2021 , 173, 1-19	18.5	11
162	Investigating the Influence of Excipients on the Stability of Levothyroxine Sodium Pentahydrate. <i>Molecular Pharmaceutics</i> , 2021 , 18, 2683-2693	5.6	2
161	Characterizing Drug-Polymer Interactions in Aqueous Solution with Analytical Ultracentrifugation. <i>Molecular Pharmaceutics</i> , 2021 , 18, 246-256	5.6	1
160	The Influence of the Strength of Drug-Polymer Interactions on the Dissolution of Amorphous Solid Dispersions. <i>Molecular Pharmaceutics</i> , 2021 , 18, 174-186	5.6	4
159	Lower endoscopic delivery of freeze-dried intestinal microbiota results in more rapid and efficient engraftment than oral administration. <i>Scientific Reports</i> , 2021 , 11, 4519	4.9	3
158	Key factors governing the reconstitution time of high concentration lyophilized protein formulations. <i>European Journal of Pharmaceutics and Biopharmaceutics</i> , 2021 , 165, 361-373	5.7	O
157	Levothyroxine Sodium Pentahydrate Tablets - Formulation Considerations. <i>Journal of Pharmaceutical Sciences</i> , 2021 , 110, 3743-3756	3.9	1
156	Phase behavior of poloxamer 188 in frozen aqueous solutions - Influence of processing conditions and cosolutes. <i>International Journal of Pharmaceutics</i> , 2021 , 609, 121145	6.5	O
155	Modulation of Microenvironmental Acidity: A Strategy to Mitigate Salt Disproportionation in Drug Product Environment. <i>Molecular Pharmaceutics</i> , 2020 , 17, 1324-1334	5.6	5
154	-Butanol Enables Dual Functionality of Mannitol: A Cryoprotectant in Frozen Systems and Bulking Agent in Freeze-Dried Formulations. <i>Molecular Pharmaceutics</i> , 2020 , 17, 3075-3086	5.6	4
153	Anomalous behavior of mannitol hemihydrate: Implications on sucrose crystallization in colyophilized systems. <i>International Journal of Pharmaceutics</i> , 2020 , 587, 119629	6.5	3
152	Freezing-induced protein aggregation - Role of pH shift and potential mitigation strategies. <i>Journal of Controlled Release</i> , 2020 , 323, 591-599	11.7	25

(2018-2020)

151	A refined phase diagram of the tert-butanol-water system and implications on lyophilization process optimization of pharmaceuticals. <i>Physical Chemistry Chemical Physics</i> , 2020 , 22, 1583-1590	3.6	5
150	Formation of Indomethacin-Saccharin Cocrystals during Wet Granulation: Role of Polymeric Excipients. <i>Molecular Pharmaceutics</i> , 2020 , 17, 274-283	5.6	4
149	Stabilization of Amorphous Drugs by Polymers: The Role of Overlap Concentration (*). <i>Molecular Pharmaceutics</i> , 2020 , 17, 4401-4406	5.6	4
148	Effect of glycerol on the order of the mesophase transitions of supercooled itraconazole. <i>Journal of Molecular Liquids</i> , 2020 , 320, 114222	6	3
147	Partial Dehydration of Levothyroxine Sodium Pentahydrate in a Drug Product Environment: Structural Insights into Stability. <i>Molecular Pharmaceutics</i> , 2020 , 17, 3915-3929	5.6	4
146	Nanobubbles in Reconstituted Lyophilized Formulations: Interaction With Proteins and Mechanism of Formation. <i>Journal of Pharmaceutical Sciences</i> , 2020 , 109, 284-292	3.9	5
145	Crosslinking: An avenue to develop stable amorphous solid dispersion with high drug loading and tailored physical stability. <i>Journal of Controlled Release</i> , 2019 , 311-312, 212-224	11.7	16
144	Role of Lattice Disorder in Water-Mediated Dissociation of Pharmaceutical Cocrystal Systems. <i>Molecular Pharmaceutics</i> , 2019 , 16, 3167-3177	5.6	16
143	Characterization of Phosphate Buffered Saline (PBS) in Frozen State and after Freeze-Drying. <i>Pharmaceutical Research</i> , 2019 , 36, 98	4.5	23
142	A supramolecular synthon approach to design amorphous solid dispersions with exceptional physical stability. <i>Chemical Communications</i> , 2019 , 55, 5551-5554	5.8	14
141	Stability of lyophilized albumin formulations: Role of excipient crystallinity and molecular mobility. <i>International Journal of Pharmaceutics</i> , 2019 , 569, 118568	6.5	5
140	Compression-Induced Polymorphic Transformation in Tablets: Role of Shear Stress and Development of Mitigation Strategies. <i>Journal of Pharmaceutical Sciences</i> , 2019 , 108, 476-484	3.9	10
139	Role of Coformer and Excipient Properties on the Solid-State Stability of Theophylline Cocrystals. <i>Crystal Growth and Design</i> , 2019 , 19, 868-875	3.5	19
138	Effect of Organic Acids on Molecular Mobility, Physical Stability, and Dissolution of Ternary Ketoconazole Spray-Dried Dispersions. <i>Molecular Pharmaceutics</i> , 2019 , 16, 41-48	5.6	15
137	Effect of Formulation and Process Parameters on the Disproportionation of Indomethacin Sodium in Buffered Lyophilized Formulations. <i>Pharmaceutical Research</i> , 2018 , 35, 21	4.5	5
136	Development and in vivo evaluation of a novel lyophilized formulation for the treatment of hemorrhagic shock. <i>International Journal of Pharmaceutics</i> , 2018 , 537, 162-171	6.5	6
135	Drug-Excipient Interactions: Effect on Molecular Mobility and Physical Stability of Ketoconazole-Organic Acid Coamorphous Systems. <i>Molecular Pharmaceutics</i> , 2018 , 15, 1052-1061	5.6	51
134	Compression-Induced Crystallization in Sucrose-Polyvinylpyrrolidone Amorphous Solid Dispersions. <i>Crystal Growth and Design</i> , 2018 , 18, 839-848	3.5	20

133	Physical Stability and Dissolution Behavior of Ketoconazole-Organic Acid Coamorphous Systems. <i>Molecular Pharmaceutics</i> , 2018 , 15, 1862-1869	5.6	45
132	Estimation of Drug Particle Size in Intact Tablets by 2-Dimensional X-Ray Diffractometry. <i>Journal of Pharmaceutical Sciences</i> , 2018 , 107, 231-238	3.9	4
131	Mechanisms by which crystalline mannitol improves the reconstitution time of high concentration lyophilized protein formulations. <i>European Journal of Pharmaceutics and Biopharmaceutics</i> , 2018 , 131, 70-81	5.7	21
130	Processing-Induced Phase Transformations and Their Implications on Pharmaceutical Product Quality 2018 , 329-380		3
129	Intra-Vial Heterogeneity in Physical Form of Mannitol in Colyophilized Binary Systems. <i>Pharmaceutical Research</i> , 2018 , 35, 214	4.5	2
128	Challenges in Transitioning Cocrystals from Bench to Bedside: Dissociation in Prototype Drug Product Environment. <i>Molecular Pharmaceutics</i> , 2018 , 15, 3297-3307	5.6	19
127	Evaluation of novel formulations of d-Ehydroxybutyrate and melatonin in a rat model of hemorrhagic shock. <i>International Journal of Pharmaceutics</i> , 2018 , 548, 104-112	6.5	2
126	Investigation of Spatial Heterogeneity of Salt Disproportionation in Tablets by Synchrotron X-ray Diffractometry. <i>Molecular Pharmaceutics</i> , 2017 , 14, 1133-1144	5.6	17
125	Effect of Polymer Molecular Weight on the Crystallization Behavior of Indomethacin Amorphous Solid Dispersions. <i>Crystal Growth and Design</i> , 2017 , 17, 3142-3150	3.5	36
124	Rapid Assessment of the Physical Stability of Amorphous Solid Dispersions. <i>Crystal Growth and Design</i> , 2017 , 17, 2478-2485	3.5	19
123	Effects of Excipient Interactions on the State of the Freeze-Concentrate and Protein Stability. <i>Pharmaceutical Research</i> , 2017 , 34, 462-478	4.5	20
122	Mechanistic Insight into Caffeine-Oxalic Cocrystal Dissociation in Formulations: Role of Excipients. <i>Molecular Pharmaceutics</i> , 2017 , 14, 3879-3887	5.6	28
121	Use of a Plasticizer for Physical Stability Prediction of Amorphous Solid Dispersions. <i>Crystal Growth and Design</i> , 2017 , 17, 4315-4325	3.5	20
120	Strength of Drug P olymer Interactions: Implications for Crystallization in Dispersions. <i>Crystal Growth and Design</i> , 2016 , 16, 5141-5149	3.5	31
119	Salt Disproportionation in the Solid State: Role of Solubility and Counterion Volatility. <i>Molecular Pharmaceutics</i> , 2016 , 13, 4141-4151	5.6	24
118	Accelerated Physical Stability Testing of Amorphous Dispersions. <i>Molecular Pharmaceutics</i> , 2016 , 13, 2661-6	5.6	16
117	Effect of Water on Molecular Mobility and Physical Stability of Amorphous Pharmaceuticals. <i>Molecular Pharmaceutics</i> , 2016 , 13, 1339-46	5.6	54
116	Mutual Influence of Mannitol and Trehalose on Crystallization Behavior in Frozen Solutions. Pharmaceutical Research, 2016 , 33, 1413-25	4.5	22

(2013-2016)

1	115	Correlation between Molecular Mobility and Physical Stability in Pharmaceutical Glasses. <i>Molecular Pharmaceutics</i> , 2016 , 13, 1267-77	5.6	46	
1	114	Recent advances in the characterization of amorphous pharmaceuticals by X-ray diffractometry. <i>Advanced Drug Delivery Reviews</i> , 2016 , 100, 183-93	18.5	49	
1	113	Influence of Disorder on Dissolution 2016 , 57-84		3	
1	[12	Salt formation during freeze-dryingan approach to enhance indomethacin dissolution. <i>Pharmaceutical Research</i> , 2015 , 32, 3722-31	4.5	11	
1	(11	Role of the Strength of Drug-Polymer Interactions on the Molecular Mobility and Crystallization Inhibition in Ketoconazole Solid Dispersions. <i>Molecular Pharmaceutics</i> , 2015 , 12, 3339-50	5.6	95	
1	(10	The role of polymer concentration on the molecular mobility and physical stability of nifedipine solid dispersions. <i>Molecular Pharmaceutics</i> , 2015 , 12, 1477-84	5.6	33	
1	109	Spatial Distribution of Trehalose Dihydrate Crystallization in Tablets by X-ray Diffractometry. <i>Molecular Pharmaceutics</i> , 2015 , 12, 3766-75	5.6	8	
1	108	Phosphonooxymethyl Prodrug of Triptolide: Synthesis, Physicochemical Characterization, and Efficacy in Human Colon Adenocarcinoma and Ovarian Cancer Xenografts. <i>Journal of Medicinal Chemistry</i> , 2015 , 58, 9334-44	8.3	41	
1	107	Compression-induced crystallization of amorphous indomethacin in tablets: characterization of spatial heterogeneity by two-dimensional X-ray diffractometry. <i>Molecular Pharmaceutics</i> , 2015 , 12, 253-	- 6 ं3 ⁶	48	
1	106	The role of drug-polymer hydrogen bonding interactions on the molecular mobility and physical stability of nifedipine solid dispersions. <i>Molecular Pharmaceutics</i> , 2015 , 12, 162-70	5.6	103	
1	105	Surface acidity and solid-state compatibility of excipients with an acid-sensitive API: case study of atorvastatin calcium. <i>AAPS PharmSciTech</i> , 2015 , 16, 354-63	3.9	17	
1	104	Modulating the dehydration conditions of adefovir dipivoxil dihydrate to obtain different physical forms of anhydrate. <i>Journal of Pharmaceutical Sciences</i> , 2015 , 104, 1056-64	3.9	4	
1	103	Mechanism of amorphous itraconazole stabilization in polymer solid dispersions: role of molecular mobility. <i>Molecular Pharmaceutics</i> , 2014 , 11, 4228-37	5.6	33	
1	[02	Influence of molecular mobility on the physical stability of amorphous pharmaceuticals in the supercooled and glassy States. <i>Molecular Pharmaceutics</i> , 2014 , 11, 3048-55	5.6	76	
1	101	Molecular motions in sucrose-PVP and sucrose-sorbitol dispersions-II. Implications of annealing on secondary relaxations. <i>Pharmaceutical Research</i> , 2014 , 31, 2822-8	4.5	3	
1	100	Azithromycin hydrates-implications of processing-induced phase transformations. <i>Journal of Pharmaceutical Sciences</i> , 2014 , 103, 3095-106	3.9	13	
9	99	Ultrasonication as a potential tool to predict solute crystallization in freeze-concentrates. <i>Pharmaceutical Research</i> , 2014 , 31, 1512-24	4.5	2	
ç	98	Molecular mobility as a predictor of the water sorption by annealed amorphous trehalose. <i>Pharmaceutical Research</i> , 2013 , 30, 714-20	4.5	6	

97	Annealing effect reversal by water sorption-desorption and heating above the glass transition temperature-comparison of properties. <i>Molecular Pharmaceutics</i> , 2013 , 10, 3005-12	5.6	2
96	Quantification, mechanism, and mitigation of active ingredient phase transformation in tablets. <i>Molecular Pharmaceutics</i> , 2013 , 10, 3128-36	5.6	16
95	Instability in theophylline and carbamazepine hydrate tablets: cocrystal formation due to release of lattice water. <i>Pharmaceutical Research</i> , 2013 , 30, 1779-89	4.5	18
94	Controlling the physical form of mannitol in freeze-dried systems. <i>European Journal of Pharmaceutics and Biopharmaceutics</i> , 2013 , 85, 207-13	5.7	45
93	Correlation between molecular mobility and physical stability of amorphous itraconazole. <i>Molecular Pharmaceutics</i> , 2013 , 10, 694-700	5.6	81
92	Phase transformation in thiamine hydrochloride tablets: Influence on tablet microstructure, physical properties, and performance. <i>Journal of Pharmaceutical Sciences</i> , 2012 , 101, 1410-22	3.9	13
91	Molecular mobility as an effective predictor of the physical stability of amorphous trehalose. <i>Molecular Pharmaceutics</i> , 2012 , 9, 3209-17	5.6	69
90	Use of dielectric spectroscopy to monitor molecular mobility in glassy and supercooled trehalose. <i>Journal of Physical Chemistry B</i> , 2012 , 116, 11728-36	3.4	16
89	Physical characterization of pentamidine isethionate during freeze-drying-relevance to development of stable lyophilized product. <i>Journal of Pharmaceutical Sciences</i> , 2012 , 101, 1732-43	3.9	8
88	Calorimetry and complementary techniques to characterize frozen and freeze-dried systems. <i>Advanced Drug Delivery Reviews</i> , 2012 , 64, 384-95	18.5	17
87	Unintended water mediated cocrystal formation in carbamazepine and aspirin tablets. <i>Molecular Pharmaceutics</i> , 2011 , 8, 982-9	5.6	41
86	The effect of crystallizing and non-crystallizing cosolutes on succinate buffer crystallization and the consequent pH shift in frozen solutions. <i>Pharmaceutical Research</i> , 2011 , 28, 374-85	4.5	26
85	Molecular motions in sucrose-PVP and sucrose-sorbitol dispersions: I. Implications of global and local mobility on stability. <i>Pharmaceutical Research</i> , 2011 , 28, 2191-203	4.5	19
84	Unusual effect of water vapor pressure on dehydration of dibasic calcium phosphate dihydrate. <i>Journal of Pharmaceutical Sciences</i> , 2011 , 100, 1456-66	3.9	16
83	Predicting the crystallization propensity of carboxylic acid buffers in frozen systemsrelevance to freeze-drying. <i>Journal of Pharmaceutical Sciences</i> , 2011 , 100, 1288-93	3.9	12
82	Investigation of PEG crystallization in frozen and freeze-dried PEGylated recombinant human growth hormone-sucrose systems: implications on storage stability. <i>Journal of Pharmaceutical Sciences</i> , 2011 , 100, 3062-3075	3.9	10
81	Thermophysical properties of carboxylic and amino acid buffers at subzero temperatures: relevance to frozen state stabilization. <i>Journal of Physical Chemistry B</i> , 2011 , 115, 7154-64	3.4	18
80	Subtraction of DC conductivity and annealing: approaches to identify Johari-Goldstein relaxation in amorphous trehalose. <i>Molecular Pharmaceutics</i> , 2011 , 8, 1416-22	5.6	9

(2007-2010)

79	BH Swinglin Frozen Solutions Consequence of Sequential Crystallization of Buffer Components. Journal of Physical Chemistry Letters, 2010 , 1, 265-268	6.4	46
78	Trehalose Crystallization During Freeze-Drying: Implications On Lyoprotection. <i>Journal of Physical Chemistry Letters</i> , 2010 , 1, 510-514	6.4	52
77	Calorimetric and diffractometric evidence for the sequential crystallization of buffer components and the consequential pH swing in frozen solutions. <i>Journal of Physical Chemistry B</i> , 2010 , 114, 4915-23	3.4	29
76	Influence of crystallizing and non-crystallizing cosolutes on trehalose crystallization during freeze-drying. <i>Pharmaceutical Research</i> , 2010 , 27, 2384-93	4.5	30
75	Crystallization of trehalose in frozen solutions and its phase behavior during drying. <i>Pharmaceutical Research</i> , 2010 , 27, 2374-83	4.5	43
74	Insights into the dehydration behavior of thiamine hydrochloride (vitamin B1) hydrates: part I. <i>Journal of Pharmaceutical Sciences</i> , 2010 , 99, 816-27	3.9	23
73	Investigation of PEG crystallization in frozen PEG-sucrose-water solutions. I. Characterization of the nonequilibrium behavior during freeze-thawing. <i>Journal of Pharmaceutical Sciences</i> , 2010 , 99, 2609-19	3.9	11
72	Investigation of PEG crystallization in frozen PEG-sucrose-water solutions: II. Characterization of the equilibrium behavior during freeze-thawing. <i>Journal of Pharmaceutical Sciences</i> , 2010 , 99, 4510-24	3.9	15
71	Non-destructive determination of the coating film thickness by X-ray powder diffractometry and correlation with the dissolution behavior of film-coated tablets. <i>Journal of Pharmaceutical and Biomedical Analysis</i> , 2010 , 51, 952-7	3.5	5
70	Physical characterization of dibasic calcium phosphate dihydrate and anhydrate. <i>Journal of Pharmaceutical Sciences</i> , 2009 , 98, 905-16	3.9	39
69	The effect of bulking agents on the chemical stability of acid-sensitive compounds in freeze-dried formulations: sucrose inversion study. <i>Journal of Pharmaceutical Sciences</i> , 2009 , 98, 3387-96	3.9	10
68	Local mobility in amorphous pharmaceuticalscharacterization and implications on stability. <i>Journal of Pharmaceutical Sciences</i> , 2009 , 98, 2935-53	3.9	166
67	Implications of global and local mobility in amorphous sucrose and trehalose as determined by differential scanning calorimetry. <i>Pharmaceutical Research</i> , 2009 , 26, 1064-72	4.5	19
66	Phase transitions in frozen systems and during freeze-drying: quantification using synchrotron X-ray diffractometry. <i>Pharmaceutical Research</i> , 2009 , 26, 1596-606	4.5	20
65	Monitoring phase transformations in intact tablets of trehalose by FT-Raman spectroscopy. <i>AAPS PharmSciTech</i> , 2009 , 10, 1420-6	3.9	12
64	Synchrotron X-ray diffraction investigation of the anomalous behavior of ice during freezing of aqueous systems. <i>Journal of Physical Chemistry B</i> , 2009 , 113, 6177-82	3.4	25
63	Correlation between chemical reactivity and the Hammett acidity function in amorphous solids using inversion of sucrose as a model reaction. <i>Journal of Pharmaceutical Sciences</i> , 2008 , 97, 274-86	3.9	17
62	Processing-induced phase transitions of theophyllineimplications on the dissolution of theophylline tablets. <i>Journal of Pharmaceutical Sciences</i> , 2007 , 96, 1434-44	3.9	44

61	X-ray powder diffractometry of intact film coated tabletsan approach to monitor the physical form of the active pharmaceutical ingredient during processing and storage. <i>Journal of Pharmaceutical Sciences</i> , 2007 , 96, 2029-36	3.9	13
60	Influence of processing conditions on the physical state of mannitolimplications in freeze-drying. <i>Pharmaceutical Research</i> , 2007 , 24, 370-6	4.5	67
59	Glycine crystallization in frozen and freeze-dried systems: effect of pH and buffer concentration. <i>Pharmaceutical Research</i> , 2007 , 24, 593-604	4.5	45
58	Impact of freeze-drying on ionization of sulfonephthalein probe molecules in trehalose-citrate systems. <i>Journal of Pharmaceutical Sciences</i> , 2006 , 95, 1498-510	3.9	37
57	Processing-induced Phase Transformations and Their Implications on Pharmaceutical Product Quality 2006 , 333-364		10
56	Investigation of the multi-step dehydration reaction of theophylline monohydrate using 2-dimensional powder X-ray diffractometry. <i>Pharmaceutical Research</i> , 2006 , 23, 2393-404	4.5	32
55	Solute crystallization in frozen systems-use of synchrotron radiation to improve sensitivity. <i>Pharmaceutical Research</i> , 2006 , 23, 2368-74	4.5	25
54	Structure in dehydrated trehalose dihydrateevaluation of the concept of partial crystallinity. <i>Pharmaceutical Research</i> , 2006 , 23, 2356-67	4.5	35
53	Calculation of the penetration depth of X-rays in intact pharmaceutical film-coated tablets by microdiffractometry. <i>Pharmaceutical Research</i> , 2006 , 23, 2149-57	4.5	8
52	Ionization states in the microenvironment of solid dosage forms: effect of formulation variables and processing. <i>Pharmaceutical Research</i> , 2006 , 23, 2454-68	4.5	40
51	Measurement of enthalpic relaxation by differential scanning calorimetry affect of experimental conditions. <i>Thermochimica Acta</i> , 2005 , 433, 173-182	2.9	41
50	Partially crystalline systems in lyophilization: I. Use of ternary state diagrams to determine extent of crystallization of bulking agent. <i>Journal of Pharmaceutical Sciences</i> , 2005 , 94, 798-808	3.9	21
49	Partially crystalline systems in lyophilization: II. Withstanding collapse at high primary drying temperatures and impact on protein activity recovery. <i>Journal of Pharmaceutical Sciences</i> , 2005 , 94, 809	-3:8	34
48	Raffinose crystallization during freeze-drying and its impact on recovery of protein activity. <i>Pharmaceutical Research</i> , 2005 , 22, 303-9	4.5	30
47	Crystallization of cephalothin sodium during lyophilization from tert-butyl alcohol-water cosolvent system. <i>Pharmaceutical Research</i> , 2005 , 22, 153-60	4.5	32
46	Influence of the active pharmaceutical ingredient concentration on the physical state of mannitolimplications in freeze-drying. <i>Pharmaceutical Research</i> , 2005 , 22, 1978-85	4.5	56
45	Quantification of crystallinity in substantially amorphous materials by synchrotron X-ray powder diffractometry. <i>Pharmaceutical Research</i> , 2005 , 22, 1942-53	4.5	82
44	Influence of processing-induced phase transformations on the dissolution of theophylline tablets. AAPS PharmSciTech, 2004, 5, E8	3.9	17

(2001-2004)

43	Use of glancing angle X-ray powder diffractometry to depth-profile phase transformations during dissolution of indomethacin and theophylline tablets. <i>Pharmaceutical Research</i> , 2004 , 21, 149-59	4.5	37
42	Effect of aging on the physical properties of amorphous trehalose. <i>Pharmaceutical Research</i> , 2004 , 21, 867-74	4.5	76
41	Effect of preparation method on physical properties of amorphous trehalose. <i>Pharmaceutical Research</i> , 2004 , 21, 1167-76	4.5	133
40	Quantification of glycine crystallinity by near-infrared (NIR) spectroscopy. <i>Journal of Pharmaceutical Sciences</i> , 2004 , 93, 2439-47	3.9	35
39	Characterization and crystal structure of D-mannitol hemihydrate. <i>Journal of Pharmaceutical Sciences</i> , 2004 , 93, 2800-9	3.9	50
38	Solid-vapor interactions: influence of environmental conditions on the dehydration of carbamazepine dihydrate. <i>AAPS PharmSciTech</i> , 2004 , 4, E68	3.9	12
37	Influence of processing-induced phase transformations on the dissolution of theophylline tablets. <i>AAPS PharmSciTech</i> , 2004 , 5, 39-49	3.9	18
36	Effective inhibition of mannitol crystallization in frozen solutions by sodium chloride. <i>Pharmaceutical Research</i> , 2003 , 20, 660-7	4.5	75
35	Crystalline to amorphous transition of disodium hydrogen phosphate during primary drying. <i>Pharmaceutical Research</i> , 2003 , 20, 802-3	4.5	37
34	Crystallization of D-mannitol in binary mixtures with NaCl: phase diagram and polymorphism. <i>Pharmaceutical Research</i> , 2003 , 20, 1939-45	4.5	33
33	The effect of additives on the crystallization of cefazolin sodium during freeze-drying. <i>Pharmaceutical Research</i> , 2003 , 20, 283-91	4.5	16
32	Solute crystallization in mannitol-glycine systemsimplications on protein stabilization in freeze-dried formulations. <i>Journal of Pharmaceutical Sciences</i> , 2003 , 92, 2272-83	3.9	48
31	Enthalpic relaxation in frozen aqueous trehalose solutions. <i>Thermochimica Acta</i> , 2003 , 405, 225-234	2.9	34
30	Crystal structure of anhydrous ED-mannitol. <i>Powder Diffraction</i> , 2003 , 18, 214-218	1.8	30
29	Crystallization of mannitol below Tg' during freeze-drying in binary and ternary aqueous systems. <i>Pharmaceutical Research</i> , 2002 , 19, 901-8	4.5	70
28	Crystallization behavior of mannitol in frozen aqueous solutions. <i>Pharmaceutical Research</i> , 2002 , 19, 894-900	4.5	93
27	Investigation of solid-state reactions using variable temperature X-ray powder diffractometry. II. Aminophylline monohydrate. <i>Pharmaceutical Research</i> , 2002 , 19, 1265-73	4.5	11
26	Investigation of solid-state reactions using variable temperature X-ray powder diffractrometry. I. Aspartame hemihydrate. <i>Pharmaceutical Research</i> , 2001 , 18, 267-73	4.5	23

25	Phase transitions of glycine in frozen aqueous solutions and during freeze-drying. <i>Pharmaceutical Research</i> , 2001 , 18, 1448-54	4.5	60
24	Quantitative analyses of complex pharmaceutical mixtures by the Rietveld method. <i>Powder Diffraction</i> , 2001 , 16, 20-24	1.8	27
23	Quantitation of crystallinity in substantially amorphous pharmaceuticals and study of crystallization kinetics by X-ray powder diffractometry. <i>Powder Diffraction</i> , 2000 , 15, 2-6	1.8	37
22	In situ dehydration of carbamazepine dihydrate: a novel technique to prepare amorphous anhydrous carbamazepine. <i>Pharmaceutical Development and Technology</i> , 2000 , 5, 257-66	3.4	89
21	Solid-state phase transitions of AG337, an antitumor agent. <i>Pharmaceutical Development and Technology</i> , 1999 , 4, 623-32	3.4	3
20	A method for the rapid evaluation of the physical stability of pharmaceutical hydrates. <i>Thermochimica Acta</i> , 1999 , 329, 163-170	2.9	41
19	Characterization of frozen aqueous solutions by low temperature X-ray powder diffractometry. <i>Pharmaceutical Research</i> , 1998 , 15, 194-9	4.5	44
18	Influence of environmental conditions on the kinetics and mechanism of dehydration of carbamazepine dihydrate. <i>Pharmaceutical Development and Technology</i> , 1998 , 3, 587-96	3.4	48
17	Applications of pressure differential scanning calorimetry in the study of pharmaceutical hydrates. II. Ampicillin trihydrate. <i>International Journal of Pharmaceutics</i> , 1998 , 170, 63-72	6.5	26
16	Characterization of phase transitions during freeze-drying by in situ X-ray powder diffractometry. <i>Pharmaceutical Development and Technology</i> , 1998 , 3, 579-86	3.4	57
15	A novel X-ray powder diffractometric method for studying the reaction between pseudoephedrine enantiomers. <i>Journal of Pharmaceutical Sciences</i> , 1997 , 86, 340-5	3.9	10
14	Polymorphism in anhydrous theophyllineimplications on the dissolution rate of theophylline tablets. <i>Journal of Pharmaceutical Sciences</i> , 1997 , 86, 1256-63	3.9	152
13	Simultaneous quantification of an enantiomer and the racemic compound of ibuprofen by X-ray powder diffractometry. <i>Pharmaceutical Research</i> , 1997 , 14, 1176-80	4.5	19
12	Applications of pressure differential scanning calorimetry in the study of pharmaceutical hydrates. I. Carbamazepine dihydrate. <i>International Journal of Pharmaceutics</i> , 1997 , 157, 209-218	6.5	43
11	X-Ray Powder Diffractometry. <i>Drugs and the Pharmaceutical Sciences</i> , 1995 , 187-221		27
10	An implantable dosage form for the treatment of bone infections. <i>Pharmaceutical Research</i> , 1992 , 9, 993-1002	4.5	22
9	Quantitative analysis of the active tablet ingredient by powder X-ray diffractometry. <i>Pharmaceutical Research</i> , 1991 , 8, 393-9	4.5	16
8	Solid-state properties of tobramycin. <i>Pharmaceutical Research</i> , 1991 , 8, 1159-65	4.5	25

LIST OF PUBLICATIONS

7	Quantitative analysis of the active ingredient in a multi-component tablet formulation by powder X-ray diffractometry. <i>International Journal of Pharmaceutics</i> , 1991 , 77, 287-295	6.5	23	
6	Quantitation of the relative amounts of anhydrous carbamazepine (C15H12N2O) and carbamazepine dihydrate (C15H12N2O.2H2O) in a mixture by solid-state nuclear magnetic resonance (NMR). <i>Pharmaceutical Research</i> , 1990 , 7, 184-7	4.5	49	
5	Quantification of Carbamazepine in Tablets by Powder X-ray Diffractometry. <i>Advances in X-ray Analysis</i> , 1990 , 34, 417-427			
4	Determination of the Relative Amounts of Earbamazepine and Earbamazepine in a Mixture by Powder X-Ray Diffractometry. <i>Powder Diffraction</i> , 1990 , 5, 155-159	1.8	24	
3	Determination of the relative amounts of anhydrous carbamazepine (C15H12N2O) and carbamazepine dihydrate (C15H12N2O.2H2O) in a mixture by powder x-ray diffractometry. <i>Pharmaceutical Research</i> , 1989 , 6, 1017-24	4.5	64	
2	Phase transitions of calcium gluceptate. <i>International Journal of Pharmaceutics</i> , 1986 , 32, 213-221	6.5	12	
1	Evaluation of two concepts of crystallinity using calcium gluceptate as a model compound. International Journal of Pharmaceutics, 1985, 24, 1-17	6.5	56	