

Arvind K Bansal

List of Publications by Year in descending order

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76
papers

2,252
citations

279701

23
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233338

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77
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77
docs citations

77
times ranked

2028
citing authors

#	ARTICLE	IF	CITATIONS
1	Amorphous Drug Delivery Systems: Molecular Aspects, Design, and Performance. <i>Critical Reviews in Therapeutic Drug Carrier Systems</i> , 2004, 21, 133-193.	1.2	249
2	Stability and Solubility of Celecoxib-PVP Amorphous Dispersions: A Molecular Perspective. <i>Pharmaceutical Research</i> , 2004, 21, 1762-1769.	1.7	190
3	Compression Physics in the Formulation Development of Tablets. <i>Critical Reviews in Therapeutic Drug Carrier Systems</i> , 2006, 23, 1-66.	1.2	167
4	Effect of Particle Size and Compression Force on Compaction Behavior and Derived Mathematical Parameters of Compressibility. <i>Pharmaceutical Research</i> , 2006, 24, 111-124.	1.7	110
5	Challenges in Translational Development of Pharmaceutical Cocrystals. <i>Journal of Pharmaceutical Sciences</i> , 2017, 106, 457-470.	1.6	83
6	Impact of Crystal Habit on Biopharmaceutical Performance of Celecoxib. <i>Crystal Growth and Design</i> , 2013, 13, 2824-2832.	1.4	77
7	Dynamic Vapor Sorption as a Tool for Characterization and Quantification of Amorphous Content in Predominantly Crystalline Materials. <i>Journal of Pharmaceutical Sciences</i> , 2014, 103, 3364-3376.	1.6	76
8	Molecular Understanding of the Compaction Behavior of Indomethacin Polymorphs. <i>Molecular Pharmaceutics</i> , 2013, 10, 631-639.	2.3	75
9	Wettability and surface chemistry of crystalline and amorphous forms of a poorly water soluble drug. <i>European Journal of Pharmaceutical Sciences</i> , 2010, 40, 84-93.	1.9	72
10	Use of biorelevant dissolution and PBPK modeling to predict oral drug absorption. <i>European Journal of Pharmaceutics and Biopharmaceutics</i> , 2018, 129, 222-246.	2.0	60
11	Molecular interactions in celecoxib-PVP-meglumine amorphous system. <i>Journal of Pharmacy and Pharmacology</i> , 2010, 57, 303-310.	1.2	53
12	Relationship between crystal structure and mechanical properties of ranitidine hydrochloride polymorphs. <i>CrystEngComm</i> , 2013, 15, 3959.	1.3	51
13	Counterintuitive Compaction behavior of Clopidogrel Bisulfate Polymorphs. <i>Journal of Pharmaceutical Sciences</i> , 2012, 101, 2408-2416.	1.6	49
14	Mechanistic investigation on pressure dependency of Heckel parameter. <i>International Journal of Pharmaceutics</i> , 2010, 389, 66-73.	2.6	47
15	Implication of microstructure on the mechanical behaviour of an aspirin-paracetamol eutectic mixture. <i>CrystEngComm</i> , 2014, 16, 8471-8478.	1.3	45
16	Influence of Drug-Polymer Interactions on Dissolution of Thermodynamically Highly Unstable Cocrystal. <i>Molecular Pharmaceutics</i> , 2019, 16, 151-164.	2.3	45
17	Oral Bioavailability and Pharmacodynamic Activity of Hesperetin Nanocrystals Generated Using a Novel Bottom-up Technology. <i>Molecular Pharmaceutics</i> , 2015, 12, 1158-1170.	2.3	43
18	Correlating Single Crystal Structure, Nanomechanical, and Bulk Compaction Behavior of Febuxostat Polymorphs. <i>Molecular Pharmaceutics</i> , 2017, 14, 866-874.	2.3	41

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19	Effect of Particle Size on In-die and Out-of-die Compaction Behavior of Ranitidine Hydrochloride Polymorphs. <i>AAPS PharmSciTech</i> , 2013, 14, 1169-1177.	1.5	39
20	Spray Drying for Generation of a Ternary Amorphous System of Celecoxib, PVP, and Meglumine. <i>Pharmaceutical Development and Technology</i> , 2005, 10, 273-281.	1.1	36
21	Improved dissolution of a poorly water soluble drug in solid dispersions with polymeric and non-polymeric hydrophilic additives. <i>Acta Pharmaceutica</i> , 2008, 58, 257-74.	0.9	30
22	Molecular Basis of Water Sorption Behavior of Rivaroxaban-Malonic Acid Cocrystal. <i>Molecular Pharmaceutics</i> , 2019, 16, 2980-2991.	2.3	30
23	Nanocrystalline solid dispersions (NSD) of hesperetin (HRN) for prevention of 7, 12-dimethylbenz[a]anthracene (DMBA)-induced breast cancer in Sprague-Dawley (SD) rats. <i>European Journal of Pharmaceutical Sciences</i> , 2019, 128, 240-249.	1.9	26
24	Investigation of Atypical Dissolution Behavior of an Encapsulated Amorphous Solid Dispersion. <i>Journal of Pharmaceutical Sciences</i> , 2011, 100, 2460-2468.	1.6	25
25	Novel nanocrystal-based formulations of apremilast for improved topical delivery. <i>Drug Delivery and Translational Research</i> , 2021, 11, 966-983.	3.0	25
26	Mechanism of generation of drug nanocrystals in celecoxib: mannitol nanocrystalline solid dispersion. <i>International Journal of Pharmaceutics</i> , 2015, 495, 132-139.	2.6	24
27	Weak Hydrogen Bonding Interactions Influence Slip System Activity and Compaction Behavior of Pharmaceutical Powders. <i>Journal of Pharmaceutical Sciences</i> , 2013, 102, 4242-4245.	1.6	20
28	Effect of counterions on the properties of amorphous atorvastatin salts. <i>European Journal of Pharmaceutical Sciences</i> , 2011, 44, 462-470.	1.9	18
29	Amorphous Salts Solid Dispersions of Celecoxib: Enhanced Biopharmaceutical Performance and Physical Stability. <i>Molecular Pharmaceutics</i> , 2021, 18, 2334-2348.	2.3	18
30	Impact of differential surface molecular environment on the interparticulate bonding strength of celecoxib crystal habits. <i>International Journal of Pharmaceutics</i> , 2014, 460, 189-195.	2.6	17
31	Emerging role of primary heterogeneous nucleation in pharmaceutical crystallization. <i>Drug Development Research</i> , 2020, 81, 3-22.	1.4	17
32	NanoCrySP technology for generation of drug nanocrystals: translational aspects and business potential. <i>Drug Delivery and Translational Research</i> , 2016, 6, 392-8.	3.0	16
33	Impact of Drug-Polymer Miscibility on Enthalpy Relaxation of Irbesartan Amorphous Solid Dispersions. <i>Pharmaceutical Research</i> , 2018, 35, 29.	1.7	16
34	The Role of Cocrystallization-Mediated Altered Crystallographic Properties on the Tabletability of Rivaroxaban and Malonic Acid. <i>Pharmaceutics</i> , 2020, 12, 546.	2.0	16
35	Effect of differential surface anisotropy on performance of two plate shaped crystals of aspirin form I. <i>European Journal of Pharmaceutical Sciences</i> , 2017, 99, 318-327.	1.9	15
36	Molecular Understanding and Implication of Structural Integrity in the Deformation Behavior of Binary Drug-Drug Eutectic Systems. <i>Molecular Pharmaceutics</i> , 2018, 15, 1917-1927.	2.3	15

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37	Effect of Variability of Physical Properties of Povidone K30 on Crystallization and Drug-Polymer Miscibility of Celecoxib-Povidone K30 Amorphous Solid Dispersions. <i>Molecular Pharmaceutics</i> , 2019, 16, 4139-4148.	2.3	15
38	Development and Optimization of a Starch-Based Co-processed Excipient for Direct Compression Using Mixture Design. <i>AAPS PharmSciTech</i> , 2018, 19, 866-880.	1.5	14
39	Permeability Behavior of Nanocrystalline Solid Dispersion of Dipyridamole Generated Using NanoCrySP Technology. <i>Pharmaceutics</i> , 2018, 10, 160.	2.0	14
40	Biorelevant dissolution testing and physiologically based absorption modeling to predict in vivo performance of supersaturating drug delivery systems. <i>International Journal of Pharmaceutics</i> , 2021, 607, 120958.	2.6	14
41	Effect of Mannitol on Nucleation and Crystal Growth of Amorphous Flavonoids: Implications on the Formation of Nanocrystalline Solid Dispersion. <i>Journal of Pharmaceutical Sciences</i> , 2015, 104, 3789-3797.	1.6	13
42	Characterization and Thermodynamic Relationship of Three Polymorphs of a Xanthine Oxidase Inhibitor, Febuxostat. <i>Journal of Pharmaceutical Sciences</i> , 2015, 104, 3722-3730.	1.6	13
43	Molecular Interpretation of Mechanical Behavior in Four Basic Crystal Packing of Isoniazid with Homologous Cocrystal Formers. <i>Crystal Growth and Design</i> , 2020, 20, 832-844.	1.4	13
44	Analytical and Computational Methods for the Determination of Drug-Polymer Solubility and Miscibility. <i>Molecular Pharmaceutics</i> , 2021, 18, 2835-2866.	2.3	13
45	Nanocrystals for improved topical delivery of medium soluble drug: A case study of acyclovir. <i>Journal of Drug Delivery Science and Technology</i> , 2021, 65, 102662.	1.4	12
46	Investigating the Role of the Reduced Solubility of the Pirfenidone-Fumaric Acid Cocrystal in Sustaining the Release Rate from Its Tablet Dosage Form by Conducting Comparative Bioavailability Study in Healthy Human Volunteers. <i>Molecular Pharmaceutics</i> , 2022, 19, 1557-1572.	2.3	12
47	Role of Structure, Microenvironmental pH, and Speciation To Understand the Formation and Properties of Febuxostat Eutectics. <i>Molecular Pharmaceutics</i> , 2019, 16, 4610-4620.	2.3	11
48	Effect of Different States of Sorbed Water on Amorphous Celecoxib. <i>Journal of Pharmaceutical Sciences</i> , 2014, 103, 2033-2041.	1.6	10
49	Impact of Tert-Butyl Alcohol on Crystallization Kinetics of Gemcitabine Hydrochloride in Frozen Aqueous Solutions. <i>Journal of Pharmaceutical Sciences</i> , 2015, 104, 87-97.	1.6	10
50	A novel approach to design febuxostat-salicylic acid eutectic system: evaluation and characterization. <i>CrystEngComm</i> , 2019, 21, 310-320.	1.3	10
51	Assessment of Biopharmaceutical Performance of Supersaturating Formulations of Carbamazepine in Rats Using Physiologically Based Pharmacokinetic Modeling. <i>AAPS PharmSciTech</i> , 2019, 20, 179.	1.5	10
52	Molecular Relaxation Behavior and Isothermal Crystallization above Glass Transition Temperature of Amorphous Hesperetin. <i>Journal of Pharmaceutical Sciences</i> , 2014, 103, 167-178.	1.6	9
53	Differential compaction behaviour of roller compacted granules of clopidogrel bisulphate polymorphs. <i>International Journal of Pharmaceutics</i> , 2014, 472, 288-295.	2.6	9
54	Co-processing of small molecule excipients with polymers to improve functionality. <i>Expert Opinion on Drug Delivery</i> , 2021, 18, 907-928.	2.4	9

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55	Surface characterization of pharmaceutical solids. TrAC - Trends in Analytical Chemistry, 2021, 138, 116228.	5.8	9
56	Investigation of Need of Natural Bioenhancer for a Metabolism Susceptible Drug – Raloxifene, in a Designed Self-Emulsifying Drug Delivery System. AAPS PharmSciTech, 2017, 18, 2529-2540.	1.5	8
57	Single-Crystal Plasticity Defies Bulk-Phase Mechanics in Isoniazid Cocrystals with Analogous Coformers. Crystal Growth and Design, 2019, 19, 4465-4475.	1.4	8
58	Understanding the Oral Absorption of Irbesartan Using Biorelevant Dissolution Testing and PBPK Modeling. AAPS PharmSciTech, 2020, 21, 102.	1.5	8
59	Correlationship of Drug-Polymer Miscibility, Molecular Relaxation and Phase Behavior of Dipyridamole Amorphous Solid Dispersions. Journal of Pharmaceutical Sciences, 2021, 110, 1470-1479.	1.6	8
60	Role of Surface Characteristics of Mannitol in Crystallization of Fenofibrate During Spray Drying. Journal of Pharmaceutical Sciences, 2020, 109, 1105-1114.	1.6	7
61	Understanding Poor Milling Behavior of Voriconazole from Crystal Structure and Intermolecular Interactions. Molecular Pharmaceutics, 2022, 19, 985-997.	2.3	6
62	Factors Affecting Crystallization Kinetics of Fenofibrate and Its Implications for the Generation of Nanocrystalline Solid Dispersions via Spray Drying. Crystal Growth and Design, 2019, 19, 4417-4428.	1.4	5
63	Impact of differential particle size of fenofibrate nanosuspensions on biopharmaceutical performance using physiologically based absorption modeling in rats. Journal of Drug Delivery Science and Technology, 2020, 60, 102040.	1.4	5
64	Role of solvent in differential phase behavior of celecoxib during spray drying. International Journal of Pharmaceutics, 2020, 585, 119489.	2.6	5
65	Design of Ascorbic Acid Eutectic Mixtures With Sugars to Inhibit Oxidative Degradation. Frontiers in Chemistry, 2022, 10, .	1.8	5
66	Nanocrystal-based gel of apremilast ameliorates imiquimod-induced psoriasis by suppressing inflammatory responses. International Journal of Pharmaceutics, 2022, 622, 121873.	2.6	5
67	Novel Co-crystals and Eutectics of Febuxostat: Characterization, Mechanism of Formation, and Improved Dissolution. AAPS PharmSciTech, 2022, 23, 43.	1.5	4
68	Optimization of Particle Properties of Nanocrystalline Solid Dispersion Based Dry Powder for Inhalation of Voriconazole. Journal of Pharmaceutical Sciences, 2022, 111, 2592-2605.	1.6	4
69	Revealing the Role of Structural Features in Bulk Mechanical Performance of Ternary Molecular Solids of Isoniazid. Molecular Pharmaceutics, 2018, 15, 5252-5262.	2.3	3
70	Crystallization of Cyclophosphamide Monohydrate During Lyophilization. Journal of Pharmaceutical Sciences, 2019, 108, 1195-1202.	1.6	3
71	Effect of surfactants on the molecular mobility and crystallization kinetics of hesperetin. CrystEngComm, 2019, 21, 3788-3797.	1.3	2
72	Effect of process parameters on phase behavior and particle size of aspirin during freeze concentration. Drying Technology, 2020, 38, 1891-1903.	1.7	2

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73	Role of surface molecular environment and amorphous content in moisture sorption behavior of milled Terbutaline Sulphate. European Journal of Pharmaceutical Sciences, 2021, 161, 105782.	1.9	2
74	Preparation and Characterization of Co-Processed Mannitol and Sorbitol Using NanoCrySP Technology. AAPS PharmSciTech, 2021, 22, 201.	1.5	1
75	Evaluation of two novel plant gums for bioadhesive microsphere and sustained-release formulations of metformin hydrochloride. Polimery W Medycynie, 2017, 47, 13-23.	0.6	1
76	High dose nanocrystalline solid dispersion powder of voriconazole for inhalation. International Journal of Pharmaceutics, 2022, 622, 121827.	2.6	1