

# Ajinkya Bhagurkar

## List of Publications by Year in descending order

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86  
papers

4,405  
citations

108046

37  
h-index

124990

64  
g-index

86  
all docs

86  
docs citations

86  
times ranked

3276  
citing authors

#	ARTICLE	IF	CITATIONS
1	Creation of Hydrochlorothiazide Pharmaceutical Cocrystals Via Hot-Melt Extrusion for Enhanced Solubility and Permeability. <i>AAPS PharmSciTech</i> , 2022, 23, 56.	1.5	15
2	Development and Validation of HPLC Method for Efinaconazole: Application to Human Nail Permeation Studies. <i>AAPS PharmSciTech</i> , 2022, 23, 63.	1.5	5
3	Hot-melt extruded hydroxypropyl methylcellulose acetate succinate based amorphous solid dispersions: Impact of polymeric combinations on supersaturation kinetics and dissolution performance. <i>International Journal of Pharmaceutics</i> , 2022, 615, 121471.	2.6	15
4	Theophylline-nicotinamide pharmaceutical co-crystals generated using hot melt extrusion technology: Impact of polymeric carriers on processability. <i>Journal of Drug Delivery Science and Technology</i> , 2021, 61, 102128.	1.4	15
5	Quality-by-design in hot melt extrusion based amorphous solid dispersions: An industrial perspective on product development. <i>European Journal of Pharmaceutical Sciences</i> , 2021, 158, 105655.	1.9	40
6	Development of lysozyme loaded microneedles for dermal applications. <i>International Journal of Pharmaceutics</i> , 2021, 593, 120104.	2.6	23
7	Pharmaceutical Co-crystals, Salts, and Co-amorphous Systems: A novel opportunity of hot-melt extrusion. <i>Journal of Drug Delivery Science and Technology</i> , 2021, 61, 102209.	1.4	22
8	Oral drug delivery systems using core-shell structure additive manufacturing technologies: a proof-of-concept study. <i>Journal of Pharmacy and Pharmacology</i> , 2021, 73, 152-160.	1.2	3
9	Development and Characterization of Sustained-Released Donepezil Hydrochloride Solid Dispersions Using Hot Melt Extrusion Technology. <i>Pharmaceutics</i> , 2021, 13, 213.	2.0	15
10	Chemotherapeutic Agent-Induced Vulvodynia, an Experimental Model. <i>AAPS PharmSciTech</i> , 2021, 22, 95.	1.5	2
11	Optimization of sulfobutyl-ether- $\beta$ -cyclodextrin levels in oral formulations to enhance progesterone bioavailability. <i>International Journal of Pharmaceutics</i> , 2021, 596, 120212.	2.6	19
12	Coupling hot melt extrusion and fused deposition modeling: Critical properties for successful performance. <i>Advanced Drug Delivery Reviews</i> , 2021, 172, 52-63.	6.6	74
13	3D printing in personalized drug delivery: An overview of hot-melt extrusion-based fused deposition modeling. <i>International Journal of Pharmaceutics</i> , 2021, 600, 120501.	2.6	87
14	Impact of hydrophilic binders on stability of lipid-based sustained release matrices of quetiapine fumarate by the continuous twin screw melt granulation technique. <i>Advanced Powder Technology</i> , 2021, 32, 2591-2604.	2.0	7
15	Multicomponent crystalline solid forms of aripiprazole produced via hot melt extrusion techniques: An exploratory study. <i>Journal of Drug Delivery Science and Technology</i> , 2021, 63, 102529.	1.4	9
16	Development and optimization of hot-melt extruded moxifloxacin hydrochloride inserts, for ocular applications, using the design of experiments. <i>International Journal of Pharmaceutics</i> , 2021, 603, 120676.	2.6	14
17	Influence of Plasdone <sup>®</sup> , S630 Ultra <sup>®</sup> an Improved Copovidone on the Processability and Oxidative Degradation of Quetiapine Fumarate Amorphous Solid Dispersions Prepared via Hot-Melt Extrusion Technique. <i>AAPS PharmSciTech</i> , 2021, 22, 196.	1.5	9
18	Effect of pH modifiers on the solubility, dissolution rate, and stability of telmisartan solid dispersions produced by hot-melt extrusion technology. <i>Journal of Drug Delivery Science and Technology</i> , 2021, 65, 102674.	1.4	13

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19	Continuous production of raloxifene hydrochloride loaded nanostructured lipid carriers using hot-melt extrusion technology. <i>Journal of Drug Delivery Science and Technology</i> , 2021, 65, 102673.	1.4	5
20	Novel Gastroretentive Floating Pulsatile Drug Delivery System Produced via Hot-Melt Extrusion and Fused Deposition Modeling 3D Printing. <i>Pharmaceutics</i> , 2020, 12, 52.	2.0	96
21	Systematic screening of pharmaceutical polymers for hot melt extrusion processing: a comprehensive review. <i>International Journal of Pharmaceutics</i> , 2020, 576, 118989.	2.6	83
22	Continuous Manufacturing of Ketoprofen Delayed Release Pellets Using Melt Extrusion Technology: Application of QbD Design Space, Inline Near Infrared, and Inline Pellet Size Analysis. <i>Journal of Pharmaceutical Sciences</i> , 2020, 109, 3598-3607.	1.6	13
23	Extended release pellets prepared by hot melt extrusion technique for abuse deterrent potential: Category-1 in-vitro evaluation. <i>International Journal of Pharmaceutics</i> , 2020, 587, 119624.	2.6	21
24	A Comparison Between Lab-Scale and Hot-Melt-Extruder-Based Anti-inflammatory Ointment Manufacturing. <i>AAPS PharmSciTech</i> , 2020, 21, 200.	1.5	12
25	Hot Melt Extrusion Processing Parameters Optimization. <i>Processes</i> , 2020, 8, 1516.	1.3	16
26	Fabrication of Taste-Masked Donut-Shaped Tablets Via Fused Filament Fabrication 3D Printing Paired with Hot-Melt Extrusion Techniques. <i>AAPS PharmSciTech</i> , 2020, 21, 243.	1.5	46
27	Polymer-Assisted Aripiprazole Adipic Acid Cocrystals Produced by Hot Melt Extrusion Techniques. <i>Crystal Growth and Design</i> , 2020, 20, 4335-4345.	1.4	30
28	Hot melt extrusion paired fused deposition modeling 3D printing to develop hydroxypropyl cellulose based floating tablets of cinnarizine. <i>Carbohydrate Polymers</i> , 2020, 246, 116519.	5.1	69
29	Continuous twin screw granulation – An advanced alternative granulation technology for use in the pharmaceutical industry. <i>International Journal of Pharmaceutics</i> , 2020, 580, 119215.	2.6	42
30	Preparation and evaluation of cefuroxime axetil gastro-retentive floating drug delivery system via hot melt extrusion technology. <i>International Journal of Pharmaceutics</i> , 2019, 566, 520-531.	2.6	14
31	A quality by design approach to develop topical creams via hot-melt extrusion technology. <i>European Journal of Pharmaceutical Sciences</i> , 2019, 136, 104948.	1.9	17
32	Effects of Processing on a Sustained Release Formulation Prepared by Twin-Screw Dry Granulation. <i>Journal of Pharmaceutical Sciences</i> , 2019, 108, 2895-2904.	1.6	16
33	Development and evaluation of pharmaceutical 3D printability for hot melt extruded cellulose-based filaments. <i>Journal of Drug Delivery Science and Technology</i> , 2019, 52, 292-302.	1.4	62
34	Exploratory studies in heat-assisted continuous twin-screw dry granulation: A novel alternative technique to conventional dry granulation. <i>International Journal of Pharmaceutics</i> , 2019, 555, 380-393.	2.6	19
35	Effects of formulation composition on the characteristics of mucoadhesive films prepared by hot-melt extrusion technology. <i>Journal of Pharmacy and Pharmacology</i> , 2019, 71, 293-305.	1.2	22
36	Microbial Stability of Pharmaceutical and Cosmetic Products. <i>AAPS PharmSciTech</i> , 2018, 19, 60-78.	1.5	57

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37	Development of poloxamer gel formulations via hot-melt extrusion technology. International Journal of Pharmaceutics, 2018, 537, 122-131.	2.6	30
38	Excipient Stability: a Critical Aspect in Stability of Pharmaceuticals. AAPS PharmSciTech, 2018, 19, 11-11.	1.5	7
39	Solving the Delivery Problems of Triclabendazole Using Cyclodextrins. AAPS PharmSciTech, 2018, 19, 2311-2321.	1.5	16
40	Chronotherapeutic Drug Delivery of Ketoprofen and Ibuprofen for Improved Treatment of Early Morning Stiffness in Arthritis Using Hot-Melt Extrusion Technology. AAPS PharmSciTech, 2018, 19, 2700-2709.	1.5	36
41	Pharmaceutical Additive Manufacturing: a Novel Tool for Complex and Personalized Drug Delivery Systems. AAPS PharmSciTech, 2018, 19, 3388-3402.	1.5	72
42	Preparation of a crystalline salt of indomethacin and tromethamine by hot melt extrusion technology. European Journal of Pharmaceutics and Biopharmaceutics, 2018, 131, 109-119.	2.0	31
43	Dual mechanism of microenvironmental pH modulation and foam melt extrusion to enhance performance of HPMCAS based amorphous solid dispersion. International Journal of Pharmaceutics, 2018, 550, 216-228.	2.6	18
44	Investigation of the combined effect of MgO and PEG on the release profile of mefenamic acid prepared via hot-melt extrusion techniques. Pharmaceutical Development and Technology, 2017, 22, 740-753.	1.1	11
45	Rat Palatability Study for Taste Assessment of Caffeine Citrate Formulation Prepared via Hot-Melt Extrusion Technology. AAPS PharmSciTech, 2017, 18, 341-348.	1.5	16
46	Dual-mechanism gastroretentive drug delivery system loaded with an amorphous solid dispersion prepared by hot-melt extrusion. European Journal of Pharmaceutical Sciences, 2017, 102, 71-84.	1.9	44
47	Bioadhesive Drug Delivery System for Enhancing the Permeability of a BCS Class III Drug via Hot-Melt Extrusion Technology. AAPS PharmSciTech, 2017, 18, 2639-2647.	1.5	18
48	Ocular Disposition of $\Delta^9$ -Tetrahydrocannabinol from Various Topical Ophthalmic Formulations. AAPS PharmSciTech, 2017, 18, 1936-1945.	1.5	18
49	Development and evaluation of an oral fast disintegrating anti-allergic film using hot-melt extrusion technology. European Journal of Pharmaceutics and Biopharmaceutics, 2017, 119, 81-90.	2.0	76
50	Coupling 3D printing with hot-melt extrusion to produce controlled-release tablets. International Journal of Pharmaceutics, 2017, 519, 186-197.	2.6	315
51	A Novel Approach for the Development of a Nanostructured Lipid Carrier Formulation by Hot-Melt Extrusion Technology. Journal of Pharmaceutical Sciences, 2017, 106, 1085-1091.	1.6	48
52	Hydroxypropyl methylcellulose-based controlled release dosage by melt extrusion and 3D printing: Structure and drug release correlation. Carbohydrate Polymers, 2017, 177, 49-57.	5.1	157
53	Preparation and evaluation of enteric coated tablets of hot-melt extruded lansoprazole. Drug Development and Industrial Pharmacy, 2017, 43, 789-796.	0.9	29
54	Development of a $\Delta^9$ -Tetrahydrocannabinol Amino Acid-Dicarboxylate Prodrug With Improved Ocular Bioavailability. , 2017, 58, 2167.		45

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55	Hot melt extrusion as an approach to improve solubility, permeability and oral absorption of a psychoactive natural product, piperine. <i>Journal of Pharmacy and Pharmacology</i> , 2016, 68, 989-998.	1.2	48
56	The effects of polymer carrier, hot melt extrusion process and downstream processing parameters on the moisture sorption properties of amorphous solid dispersions. <i>Journal of Pharmacy and Pharmacology</i> , 2016, 68, 692-704.	1.2	39
57	Optimization of hot melt extrusion parameters for sphericity and hardness of polymeric face-cut pellets. <i>Drug Development and Industrial Pharmacy</i> , 2016, 42, 1833-1841.	0.9	20
58	Pharmaceutical Thermal Processing. <i>AAPS PharmSciTech</i> , 2016, 17, 1-2.	1.5	22
59	Development of an Ointment Formulation Using Hot-Melt Extrusion Technology. <i>AAPS PharmSciTech</i> , 2016, 17, 158-166.	1.5	45
60	A novel floating controlled release drug delivery system prepared by hot-melt extrusion. <i>European Journal of Pharmaceutics and Biopharmaceutics</i> , 2016, 98, 108-121.	2.0	75
61	Development, optimization and <i>in vivo</i> characterization of domperidone-controlled release hot-melt-extruded films for buccal delivery. <i>Drug Development and Industrial Pharmacy</i> , 2016, 42, 473-484.	0.9	44
62	Contribution of hot-melt extrusion technology to advance drug delivery in the 21st century. <i>Expert Opinion on Drug Delivery</i> , 2016, 13, 451-464.	2.4	125
63	Solid-state characterization of Felodipine Soluplus amorphous solid dispersions. <i>Drug Development and Industrial Pharmacy</i> , 2016, 42, 485-496.	0.9	35
64	Controlled release tablet formulation containing natural $\delta^9$ -tetrahydrocannabinol. <i>Drug Development and Industrial Pharmacy</i> , 2016, 42, 1158-1164.	0.9	3
65	Influence of pressurized carbon dioxide on ketoprofen-incorporated hot-melt extruded low molecular weight hydroxypropylcellulose. <i>Drug Development and Industrial Pharmacy</i> , 2016, 42, 123-130.	0.9	22
66	Conjugation of Hot-Melt Extrusion with High-Pressure Homogenization: a Novel Method of Continuously Preparing Nanocrystal Solid Dispersions. <i>AAPS PharmSciTech</i> , 2016, 17, 78-88.	1.5	48
67	Hot-Melt Extrusion: from Theory to Application in Pharmaceutical Formulation. <i>AAPS PharmSciTech</i> , 2016, 17, 20-42.	1.5	364
68	Preparation and Evaluation of Hot-Melt Extruded Patient-Centric Ketoprofen Mini-Tablets. <i>Current Drug Delivery</i> , 2016, 13, 730-741.	0.8	16
69	Influence of molecular weight of carriers and processing parameters on the extrudability, drug release, and stability of fenofibrate formulations processed by hot-melt extrusion. <i>Journal of Drug Delivery Science and Technology</i> , 2015, 29, 189-198.	1.4	17
70	Mefenamic acid taste-masked oral disintegrating tablets with enhanced solubility via molecular interaction produced by hot melt extrusion technology. <i>Journal of Drug Delivery Science and Technology</i> , 2015, 27, 18-27.	1.4	47
71	Formulation and development of pH-independent/dependent sustained release matrix tablets of ondansetron HCl by a continuous twin-screw melt granulation process. <i>International Journal of Pharmaceutics</i> , 2015, 496, 33-41.	2.6	44
72	Development of taste masked caffeine citrate formulations utilizing hot melt extrusion technology and <i>in vitro</i> – <i>in vivo</i> evaluations. <i>International Journal of Pharmaceutics</i> , 2015, 487, 167-176.	2.6	54

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73	Influence of degassing on hot-melt extrusion process. <i>European Journal of Pharmaceutical Sciences</i> , 2015, 80, 43-52.	1.9	35
74	Continuous manufacturing of solid lipid nanoparticles by hot melt extrusion. <i>International Journal of Pharmaceutics</i> , 2014, 471, 153-156.	2.6	39
75	Melt extrusion: process to product. <i>Expert Opinion on Drug Delivery</i> , 2012, 9, 105-125.	2.4	116
76	Upregulation of Endogenous Neurotrophin Levels in the Brain by Intranasal Administration of Carnosic Acid. <i>Journal of Pharmaceutical Sciences</i> , 2011, 100, 3139-3145.	1.6	24
77	Applications of hot-melt extrusion for drug delivery. <i>Expert Opinion on Drug Delivery</i> , 2008, 5, 1357-1376.	2.4	181
78	Pharmaceutical Applications of Hot-Melt Extrusion: Part II. <i>Drug Development and Industrial Pharmacy</i> , 2007, 33, 1043-1057.	0.9	319
79	Temperature Stability and Bioadhesive Properties of $\delta^9$ -Tetrahydrocannabinol Incorporated Hydroxypropylcellulose Polymer Matrix Systems. <i>Drug Development and Industrial Pharmacy</i> , 2006, 32, 21-32.	0.9	43
80	Characterization of cellulosic hot-melt extruded films containing lidocaine. <i>European Journal of Pharmaceutics and Biopharmaceutics</i> , 2005, 59, 189-196.	2.0	147
81	Influence of human nail etching for the assessment of topical onychomycosis therapies. <i>International Journal of Pharmaceutics</i> , 2004, 282, 95-106.	2.6	64
82	Matrix- and Reservoir-Based Transmucosal Delivery Systems. <i>American Journal of Drug Delivery</i> , 2004, 2, 173-192.	0.6	6
83	Production and Characterization of Hot-Melt Extruded Films Containing Clotrimazole. <i>Drug Development and Industrial Pharmacy</i> , 2003, 29, 757-765.	0.9	86
84	Nail morphology studies as assessments for onychomycosis treatment modalities. <i>International Journal of Pharmaceutics</i> , 2002, 245, 25-36.	2.6	45
85	Influence of Chlorpheniramine Maleate on Topical Hydroxypropylcellulose Films Produced by Hot-Melt Extrusion. <i>Pharmaceutical Development and Technology</i> , 2001, 6, 297-304.	1.1	34
86	Influence of Plasticizers and Drugs on the Physical-Mechanical Properties of Hydroxypropylcellulose Films Prepared by Hot Melt Extrusion. <i>Drug Development and Industrial Pharmacy</i> , 1999, 25, 625-633.	0.9	184