

Mohammed Maniruzzaman

List of Publications by Year in descending order

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70
papers

2,460
citations

201575

27
h-index

214721

47
g-index

101
all docs

101
docs citations

101
times ranked

2429
citing authors

#	ARTICLE	IF	CITATIONS
1	Advanced Pharmaceutical Applications of Hot-Melt Extrusion Coupled with Fused Deposition Modelling (FDM) 3D Printing for Personalised Drug Delivery. <i>Pharmaceutics</i> , 2018, 10, 203.	2.0	212
2	Development and evaluation of orally disintegrating tablets (ODTs) containing Ibuprofen granules prepared by hot melt extrusion. <i>Colloids and Surfaces B: Biointerfaces</i> , 2011, 86, 275-284.	2.5	151
3	A Review of Hot-Melt Extrusion: Process Technology to Pharmaceutical Products. <i>ISRN Pharmaceutics</i> , 2012, 2012, 1-9.	1.0	149
4	Taste masking of paracetamol by hot-melt extrusion: An in vitro and in vivo evaluation. <i>European Journal of Pharmaceutics and Biopharmaceutics</i> , 2012, 80, 433-442.	2.0	134
5	Drug-polymer intermolecular interactions in hot-melt extruded solid dispersions. <i>International Journal of Pharmaceutics</i> , 2013, 443, 199-208.	2.6	128
6	Emerging 3D printing technologies for drug delivery devices: Current status and future perspective. <i>Advanced Drug Delivery Reviews</i> , 2021, 174, 294-316.	6.6	84
7	Mesoporous silica nanoparticles in nanotechnology. <i>Critical Reviews in Biotechnology</i> , 2013, 33, 229-245.	5.1	80
8	Continuous cocrystallisation of carbamazepine and trans-cinnamic acid via melt extrusion processing. <i>CrystEngComm</i> , 2014, 16, 3573-3583.	1.3	65
9	Drop-On-Powder 3D Printing of Tablets with an Anti-Cancer Drug, 5-Fluorouracil. <i>Pharmaceutics</i> , 2019, 11, 150.	2.0	63
10	Role of release modifiers to modulate drug release from fused deposition modelling (FDM) 3D printed tablets. <i>International Journal of Pharmaceutics</i> , 2021, 597, 120315.	2.6	61
11	A review on the taste masking of bitter APIs: hot-melt extrusion (HME) evaluation. <i>Drug Development and Industrial Pharmacy</i> , 2014, 40, 145-156.	0.9	57
12	Continuous manufacturing via hot-melt extrusion and scale up: regulatory matters. <i>Drug Discovery Today</i> , 2017, 22, 340-351.	3.2	52
13	Implementation of transmission NIR as a PAT tool for monitoring drug transformation during HME processing. <i>European Journal of Pharmaceutics and Biopharmaceutics</i> , 2015, 96, 106-116.	2.0	50
14	Novel On-Demand 3-Dimensional (3-D) Printed Tablets Using Fill Density as an Effective Release-Controlling Tool. <i>Polymers</i> , 2020, 12, 1872.	2.0	50
15	3D printing technology as innovative solutions for biomedical applications. <i>Drug Discovery Today</i> , 2021, 26, 360-383.	3.2	50
16	Molecular Modeling as a Predictive Tool for the Development of Solid Dispersions. <i>Molecular Pharmaceutics</i> , 2015, 12, 1040-1049.	2.3	49
17	Development and Optimisation of Novel Polymeric Compositions for Sustained Release Theophylline Caplets (PrintCap) via FDM 3D Printing. <i>Polymers</i> , 2020, 12, 27.	2.0	47
18	Selective Laser Sintering 3-Dimensional Printing as a Single Step Process to Prepare Amorphous Solid Dispersion Dosage Forms for Improved Solubility and Dissolution Rate. <i>Journal of Pharmaceutical Sciences</i> , 2021, 110, 1432-1443.	1.6	44

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19	Development and Optimisation of Spironolactone Nanoparticles for Enhanced Dissolution Rates and Stability. <i>AAPS PharmSciTech</i> , 2017, 18, 1469-1474.	1.5	43
20	Development of hot melt co-formulated antimalarial solid dispersion system in fixed dose form (ARLUMELT): Evaluating amorphous state and in vivo performance. <i>International Journal of Pharmaceutics</i> , 2015, 496, 137-156.	2.6	42
21	Development of sustained-release formulations processed by hot-melt extrusion by using a quality-by-design approach. <i>Drug Delivery and Translational Research</i> , 2014, 4, 377-387.	3.0	39
22	Structure-function correlation and personalized 3D printed tablets using a quality by design (QbD) approach. <i>International Journal of Pharmaceutics</i> , 2020, 590, 119945.	2.6	39
23	Zinc oxide/clove essential oil incorporated type B gelatin nanocomposite formulations: A proof-of-concept study for 3D printing applications. <i>Food Hydrocolloids</i> , 2020, 98, 105256.	5.6	36
24	An in-vitro–in-vivo taste assessment of bitter drug: comparative electronic tongues study. <i>Journal of Pharmacy and Pharmacology</i> , 2014, 67, 43-55.	1.2	35
25	3D printing for enhanced drug delivery: current state-of-the-art and challenges. <i>Drug Development and Industrial Pharmacy</i> , 2020, 46, 1385-1401.	0.9	35
26	Rheological and Dielectric Behavior of 3D-Printable Chitosan/Graphene Oxide Hydrogels. <i>ACS Biomaterials Science and Engineering</i> , 2020, 6, 88-99.	2.6	30
27	Antibiofilm Effects of Macrolide Loaded Microneedle Patches: Prospects in Healing Infected Wounds. <i>Pharmaceutical Research</i> , 2021, 38, 165-177.	1.7	30
28	Mechanism of synergistic interactions and its influence on drug release from extended release matrices manufactured using binary mixtures of polyethylene oxide and sodium carboxymethylcellulose. <i>Colloids and Surfaces B: Biointerfaces</i> , 2013, 104, 174-180.	2.5	27
29	3D Printed Calcium Phosphate Cement (CPC) Scaffolds for Anti-Cancer Drug Delivery. <i>Pharmaceutics</i> , 2020, 12, 1077.	2.0	27
30	Amorphous solid dispersion dry powder for pulmonary drug delivery: Advantages and challenges. <i>International Journal of Pharmaceutics</i> , 2020, 587, 119711.	2.6	27
31	Continuous twin-screw granulation for enhancing the dissolution of poorly water soluble drug. <i>International Journal of Pharmaceutics</i> , 2015, 496, 52-62.	2.6	25
32	Novel formulations and drug delivery systems to administer biological solids. <i>Advanced Drug Delivery Reviews</i> , 2021, 172, 183-210.	6.6	25
33	Prediction of Polymorphic Transformations of Paracetamol in Solid Dispersions. <i>Journal of Pharmaceutical Sciences</i> , 2014, 103, 1819-1828.	1.6	24
34	Impact of Laser Speed and Drug Particle Size on Selective Laser Sintering 3D Printing of Amorphous Solid Dispersions. <i>Pharmaceutics</i> , 2021, 13, 1149.	2.0	22
35	An in-vivo and in-vitro taste masking evaluation of bitter melt-extruded drugs. <i>Journal of Pharmacy and Pharmacology</i> , 2014, 66, 323-337.	1.2	20
36	3D Bioprinting of Novel Biocompatible Scaffolds for Endothelial Cell Repair. <i>Polymers</i> , 2019, 11, 1924.	2.0	19

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37	Selective Laser Sintering of a Photosensitive Drug: Impact of Processing and Formulation Parameters on Degradation, Solid State, and Quality of 3D-Printed Dosage Forms. <i>Molecular Pharmaceutics</i> , 2021, 18, 3894-3908.	2.3	18
38	Solid crystal suspension of Efavirenz using hot melt extrusion: Exploring the role of crystalline polyols in improving solubility and dissolution rate. <i>Materials Science and Engineering C</i> , 2017, 78, 1023-1034.	3.8	17
39	Study the influence of formulation process parameters on solubility and dissolution enhancement of efavirenz solid solutions prepared by hot-melt extrusion: a QbD methodology. <i>Drug Delivery and Translational Research</i> , 2018, 8, 1644-1657.	3.0	17
40	Biofunctional Hyaluronic Acid/̢-Carrageenan Injectable Hydrogels for Improved Drug Delivery and Wound Healing. <i>Polymers</i> , 2022, 14, 376.	2.0	17
41	Novel Controlled Release Polymer-Lipid Formulations Processed by Hot Melt Extrusion. <i>AAPS PharmSciTech</i> , 2016, 17, 191-199.	1.5	15
42	Novel 3D printed device with integrated macroscale magnetic field triggerable anti-cancer drug delivery system. <i>Colloids and Surfaces B: Biointerfaces</i> , 2020, 192, 111068.	2.5	15
43	Synergistic application of twin-screw granulation and selective laser sintering 3D printing for the development of pharmaceutical dosage forms with enhanced dissolution rates and physical properties. <i>European Journal of Pharmaceutics and Biopharmaceutics</i> , 2021, 163, 141-156.	2.0	15
44	A quality by design (QbD) twin-screw extrusion wet granulation approach for processing water insoluble drugs. <i>International Journal of Pharmaceutics</i> , 2017, 526, 496-505.	2.6	14
45	Extended release delivery system of metoprolol succinate using hot-melt extrusion: effect of release modifier on methacrylic acid copolymer. <i>Drug Delivery and Translational Research</i> , 2018, 8, 1679-1693.	3.0	13
46	Development and Evaluation of Amorphous Oral Thin Films Using Solvent-Free Processes: Comparison between 3D Printing and Hot-Melt Extrusion Technologies. <i>Pharmaceutics</i> , 2021, 13, 1613.	2.0	13
47	Pharmaceutical Applications of Hot-Melt Extrusion: Continuous Manufacturing, Twin-Screw Granulations, and 3D Printing. <i>Pharmaceutics</i> , 2019, 11, 218.	2.0	12
48	Effect of melt extrudability and melt binding efficiency of polyvinyl caprolactam polyvinyl acetate polyethylene glycol graft copolymer (Soluplus®) on release pattern of hydrophilic and high dose drugs. <i>Materials Science and Engineering C</i> , 2019, 99, 563-574.	3.8	11
49	Detecting Crystallinity Using Terahertz Spectroscopy in 3D Printed Amorphous Solid Dispersions. <i>Molecular Pharmaceutics</i> , 2022, 19, 2380-2389.	2.3	11
50	Evaluation of the drug solubility and rush ageing on drug release performance of various model drugs from the modified release polyethylene oxide matrix tablets. <i>Drug Delivery and Translational Research</i> , 2017, 7, 111-124.	3.0	10
51	Intercalated theophylline-smectite hybrid for pH-mediated delivery. <i>Drug Delivery and Translational Research</i> , 2018, 8, 1781-1789.	3.0	10
52	The crucial effect of water and co-solvent on Liqui-Pellet pharmaceutical performance. <i>Advanced Powder Technology</i> , 2020, 31, 1903-1914.	2.0	10
53	Continuous manufacturing and process analytical tools. <i>International Journal of Pharmaceutics</i> , 2015, 496, 1-2.	2.6	9
54	In-depth multidisciplinary review of the usage, manufacturing, regulations & market of dietary supplements. <i>Journal of Drug Delivery Science and Technology</i> , 2022, 67, 102985.	1.4	9

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55	Three-Dimensional Printing of a Container Tablet: A New Paradigm for Multi-Drug-Containing Bioactive Self-Nanoemulsifying Drug-Delivery Systems (Bio-SNEDDSs). <i>Pharmaceutics</i> , 2022, 14, 1082.	2.0	8
56	Microwave induced dielectric heating for the on-demand development of indomethacin amorphous solid dispersion tablets. <i>Journal of Drug Delivery Science and Technology</i> , 2021, 61, 102109.	1.4	7
57	Development and characterisation of sodium alginate and HPMC films for mucosal drug delivery. <i>International Journal of Biotechnology</i> , 2010, 11, 169.	1.2	6
58	A Low-Cost Method to Prepare Biocompatible Filaments with Enhanced Physico-Mechanical Properties for FDM 3D Printing. <i>Current Drug Delivery</i> , 2021, 18, 700-711.	0.8	6
59	Investigation of the Fused Deposition Modeling Additive Manufacturing I: Influence of Process Temperature on the Quality and Crystallinity of the Dosage Forms. <i>AAPS PharmSciTech</i> , 2021, 22, 258.	1.5	6
60	Advanced Implantable Drug Delivery Systems via Continuous Manufacturing. <i>Critical Reviews in Therapeutic Drug Carrier Systems</i> , 2016, 33, 569-589.	1.2	5
61	Development and optimization of ketoconazole oral strips by means of continuous hot-melt extrusion processing. <i>Journal of Pharmacy and Pharmacology</i> , 2016, 68, 890-900.	1.2	5
62	Advanced surface chemical analysis of continuously manufactured drug loaded composite pellets. <i>Journal of Colloid and Interface Science</i> , 2017, 492, 157-166.	5.0	5
63	The use of various organic solvents to tailor the properties of ibuprofen-glucosamine HCl solid dispersions. <i>Chemical Engineering Research and Design</i> , 2017, 117, 509-519.	2.7	4
64	Chemico-calorimetric analysis of amorphous granules manufactured via continuous granulation process. <i>Drug Delivery and Translational Research</i> , 2018, 8, 1658-1669.	3.0	4
65	Magnetic Field Triggerable Macroporous PDMS Sponge Loaded with an Anticancer Drug, 5-Fluorouracil. <i>ACS Biomaterials Science and Engineering</i> , 2021, 7, 180-195.	2.6	4
66	Increased dissolution rates of tranilast solid dispersions extruded with inorganic excipients. <i>Drug Development and Industrial Pharmacy</i> , 2017, 43, 947-957.	0.9	3
67	Evaluations of the Effect of Sodium Metabisulphite on the Stability and Dissolution Rates of Various Model Drugs from the Extended Release Polyethylene Oxide Matrices. <i>Journal of Pharmaceutical Innovation</i> , 2017, 12, 260-270.	1.1	2
68	Hot-melt extrusion: a versatile technology. , 2021, , 645-653.		2
69	Comparison of HPMC Inhalation-Grade Capsules and Their Effect on Aerosol Performance Using Budesonide and Rifampicin DPI Formulations. <i>AAPS PharmSciTech</i> , 2022, 23, 52.	1.5	2
70	Process engineering and pharmaceutical manufacturing technologies. <i>Drug Delivery and Translational Research</i> , 2018, 8, 1593-1594.	3.0	1