Mohammed Maniruzzaman

List of Publications by Year
in descending order

Source: https://exaly.com/author-pdf/4011009/publications.pdf

Version: 2024-02-01

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	In-depth multidisciplinary review of the usage, manufacturing, regulations & market of dietary supplements. Journal of Drug Delivery Science and Technology, 2022, 67, 102985.	1.4	9
2	Comparison of HPMC Inhalation-Grade Capsules and Their Effect on Aerosol Performance Using Budesonide and Rifampicin DPI Formulations. AAPS PharmSciTech, 2022, 23, 52.	1.5	2
3	Biofunctional Hyaluronic Acid/Î²-Carrageenan Injectable Hydrogels for Improved Drug Delivery and Wound Healing. Polymers, 2022, 14, 376.	2.0	17
4	Three-Dimensional Printing of a Container Tablet: A New Paradigm for Multi-Drug-Containing Bioactive Self-Nanoemulsifying Drug-Delivery Systems (Bio-SNEDDSs). Pharmaceutics, 2022, 14, 1082.	2.0	8
5	Detecting Crystallinity Using Terahertz Spectroscopy in 3D Printed Amorphous Solid Dispersions. Molecular Pharmaceutics, 2022, 19, 2380-2389.	2.3	11
6	Microwave induced dielectric heating for the on-demand development of indomethacin amorphous solid dispersion tablets. Journal of Drug Delivery Science and Technology, 2021, 61, 102109.	1.4	7
7	3D printing technology as innovative solutions for biomedical applications. Drug Discovery Today, 2021, 26, 360-383.	3.2	50
8	Selective Laser Sintering 3-Dimensional Printing as a Single Step Process to Prepare Amorphous Solid Dispersion Dosage Forms for Improved Solubility and Dissolution Rate. Journal of Pharmaceutical Sciences, 2021, 110, 1432-1443.	1.6	44
9	Magnetic Field Triggerable Macroporous PDMS Sponge Loaded with an Anticancer Drug, 5-Fluorouracil. ACS Biomaterials Science and Engineering, 2021, 7, 180-195.	2.6	4
10	Hot-melt extrusion: a versatile technology. , 2021, , 645-653.		2
11	Role of release modifiers to modulate drug release from fused deposition modelling (FDM) 3D printed tablets. International Journal of Pharmaceutics, 2021, 597, 120315.	2.6	61
12	Novel formulations and drug delivery systems to administer biological solids. Advanced Drug Delivery Reviews, 2021, 172, 183-210.	6.6	25
13	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. European Journal of Pharmaceutics and Biopharmaceutics, 2021, 163, 141-156.	2.0	15
14	Emerging 3D printing technologies for drug delivery devices: Current status and future perspective. Advanced Drug Delivery Reviews, 2021, 174, 294-316.	6.6	84
15	Impact of Laser Speed and Drug Particle Size on Selective Laser Sintering 3D Printing of Amorphous Solid Dispersions. Pharmaceutics, 2021, 13, 1149.	2.0	22
16	A Low-Cost Method to Prepare Biocompatible Filaments with Enhanced Physico-Mechanical Properties for FDM 3D Printing. Current Drug Delivery, 2021, 18, 700-711.	0.8	6
17	Selective Laser Sintering of a Photosensitive Drug: Impact of Processing and Formulation Parameters on Degradation, Solid State, and Quality of 3D-Printed Dosage Forms. Molecular Pharmaceutics, 2021, 18, 3894-3908.	2.3	18
18	Antibiofilm Effects of Macrolide Loaded Microneedle Patches: Prospects in Healing Infected Wounds. Pharmaceutical Research, 2021, 38, 165-177.	1.7	30

#	Article	IF	Citations
19	Development and Evaluation of Amorphous Oral Thin Films Using Solvent-Free Processes: Comparison between 3D Printing and Hot-Melt Extrusion Technologies. Pharmaceutics, 2021, 13, 1613.	2.0	13
20	Investigation of the Fused Deposition Modeling Additive Manufacturing I: Influence of Process Temperature on the Quality and Crystallinity of the DosageÂForms. AAPS PharmSciTech, 2021, 22, 258.	1.5	6
21	Rheological and Dielectric Behavior of 3D-Printable Chitosan/Graphene Oxide Hydrogels. ACS Biomaterials Science and Engineering, 2020, 6, 88-99.	2.6	30
22	Zinc oxide/clove essential oil incorporated type B gelatin nanocomposite formulations: A proof-of-concept study for 3D printing applications. Food Hydrocolloids, 2020, 98, 105256.	5.6	36
23	Development and Optimisation of Novel Polymeric Compositions for Sustained Release Theophylline Caplets (PrintCap) via FDM 3D Printing. Polymers, 2020, 12, 27.	2.0	47
24	Structure-function correlation and personalized 3D printed tablets using a quality by design (QbD) approach. International Journal of Pharmaceutics, 2020, 590, 119945.	2.6	39
25	3D Printed Calcium Phosphate Cement (CPC) Scaffolds for Anti-Cancer Drug Delivery. Pharmaceutics, 2020, 12, 1077.	2.0	27
26	Amorphous solid dispersion dry powder for pulmonary drug delivery: Advantages and challenges. International Journal of Pharmaceutics, 2020, 587, 119711.	2.6	27
27	3D printing for enhanced drug delivery: current state-of-the-art and challenges. Drug Development and Industrial Pharmacy, 2020, 46, 1385-1401.	0.9	35
28	Novel On-Demand 3-Dimensional (3-D) Printed Tablets Using Fill Density as an Effective Release-Controlling Tool. Polymers, 2020, 12, 1872.	2.0	50
29	The crucial effect of water and co-solvent on Liqui-Pellet pharmaceutical performance. Advanced Powder Technology, 2020, 31, 1903-1914.	2.0	10
30	Novel 3D printed device with integrated macroscale magnetic field triggerable anti-cancer drug delivery system. Colloids and Surfaces B: Biointerfaces, 2020, 192, 111068.	2.5	15
31	Effect of melt extrudability and melt binding efficiency of polyvinyl caprolactam polyvinyl acetate polyethylene glycol graft copolymer (SoluplusÂ®) on release pattern of hydrophilic and high dose drugs. Materials Science and Engineering C, 2019, 99, 563-574.	3.8	11
32	Pharmaceutical Applications of Hot-Melt Extrusion: Continuous Manufacturing, Twin-Screw Granulations, and 3D Printing. Pharmaceutics, 2019, 11, 218.	2.0	12
33	Drop-On-Powder 3D Printing of Tablets with an Anti-Cancer Drug, 5-Fluorouracil. Pharmaceutics, 2019, 11, 150.	2.0	63
34	3D Bioprinting of Novel Biocompatible Scaffolds for Endothelial Cell Repair. Polymers, 2019, 11, 1924.	2.0	19
35	Intercalated theophylline-smectite hybrid for pH-mediated delivery. Drug Delivery and Translational Research, 2018, 8, 1781-1789.	3.0	10
36	Study the influence of formulation process parameters on solubility and dissolution enhancement of efavirenz solid solutions prepared by hot-melt extrusion: a QbD methodology. Drug Delivery and Translational Research, 2018, 8, 1644-1657.	3.0	17

#	Article	IF	Citations
37	Advanced Pharmaceutical Applications of Hot-Melt Extrusion Coupled with Fused Deposition Modelling (FDM) 3D Printing for Personalised Drug Delivery. Pharmaceutics, 2018, 10, 203.	2.0	212
38	Process engineering and pharmaceutical manufacturing technologies. Drug Delivery and Translational Research, 2018, 8, 1593-1594.	3.0	1
39	Chemico-calorimetric analysis of amorphous granules manufactured via continuous granulation process. Drug Delivery and Translational Research, 2018, 8, 1658-1669.	3.0	4
40	Extended release delivery system of metoprolol succinate using hot-melt extrusion: effect of release modifier on methacrylic acid copolymer. Drug Delivery and Translational Research, 2018, 8, 1679-1693.	3.0	13
41	Increased dissolution rates of tranilast solid dispersions extruded with inorganic excipients. Drug Development and Industrial Pharmacy, 2017, 43, 947-957.	0.9	3
42	A quality by design (QbD) twinâ€"Screw extrusion wet granulation approach for processing water insoluble drugs. International Journal of Pharmaceutics, 2017, 526, 496-505.	2.6	14
43	Solid crystal suspension of Efavirenz using hot melt extrusion: Exploring the role of crystalline polyols in improving solubility and dissolution rate. Materials Science and Engineering C, 2017, 78, 1023-1034.	3.8	17
44	The use of various organic solvents to tailor the properties of ibuprofenâ€"glucosamine HCl solid dispersions. Chemical Engineering Research and Design, 2017, 117, 509-519.	2.7	4
45	Evaluations of the Effect of Sodium Metabisulphite on the Stability and Dissolution Rates of Various Model Drugs from the Extended Release Polyethylene Oxide Matrices. Journal of Pharmaceutical Innovation, 2017, 12, 260-270.	1.1	2
46	Development and Optimisation of Spironolactone Nanoparticles for Enhanced Dissolution Rates and Stability. AAPS PharmSciTech, 2017, 18, 1469-1474.	1.5	43
47	Advanced surface chemical analysis of continuously manufactured drug loaded composite pellets. Journal of Colloid and Interface Science, 2017, 492, 157-166.	5.0	5
48	Evaluation of the drug solubility and rush ageing on drug release performance of various model drugs from the modified release polyethylene oxide matrix tablets. Drug Delivery and Translational Research, 2017, 7, 111-124.	3.0	10
49	Continuous manufacturing via hot-melt extrusion and scale up: regulatory matters. Drug Discovery Today, 2017, 22, 340-351.	3.2	52
50	Advanced Implantable Drug Delivery Systems via Continuous Manufacturing. Critical Reviews in Therapeutic Drug Carrier Systems, 2016, 33, 569-589.	1.2	5
51	Development and optimization of ketoconazole oral strips by means of continuous hot-melt extrusion processing. Journal of Pharmacy and Pharmacology, 2016, 68, 890-900.	1.2	5
52	Novel Controlled Release Polymer-Lipid Formulations Processed by Hot Melt Extrusion. AAPS PharmSciTech, 2016, 17, 191-199.	1.5	15
53	Continuous manufacturing and process analytical tools. International Journal of Pharmaceutics, 2015, 496, 1-2.	2.6	9
54	Implementation of transmission NIR as a PAT tool for monitoring drug transformation during HME processing. European Journal of Pharmaceutics and Biopharmaceutics, 2015, 96, 106-116.	2.0	50

#	Article	IF	Citations
55	Molecular Modeling as a Predictive Tool for the Development of Solid Dispersions. Molecular Pharmaceutics, 2015, 12, 1040-1049.	2.3	49
56	Development of hot melt co-formulated antimalarial solid dispersion system in fixed dose form (ARLUMELT): Evaluating amorphous state and in vivo performance. International Journal of Pharmaceutics, 2015, 496, 137-156.	2.6	42
57	Continuous twin-screw granulation for enhancing the dissolution of poorly water soluble drug. International Journal of Pharmaceutics, 2015, 496, 52-62.	2.6	25
58	An in-vivo and in-vitro taste masking evaluation of bitter melt-extruded drugs. Journal of Pharmacy and Pharmacology, 2014, 66, 323-337.	1.2	20
59	An in-vitroâ€“in-vivo taste assessment of bitter drug: comparative electronic tongues study. Journal of Pharmacy and Pharmacology, 2014, 67, 43-55.	1.2	35
60	Continuous cocrystallisation of carbamazepine and trans-cinnamic acid via melt extrusion processing. CrystEngComm, 2014, 16, 3573-3583.	1.3	65
61	Development of sustained-release formulations processed by hot-melt extrusion by using a quality-by-design approach. Drug Delivery and Translational Research, 2014, 4, 377-387.	3.0	39
62	Prediction of Polymorphic Transformations of Paracetamol in Solid Dispersions. Journal of Pharmaceutical Sciences, 2014, 103, 1819-1828.	1.6	24
63	A review on the taste masking of bitter APIs: hot-melt extrusion (HME) evaluation. Drug Development and Industrial Pharmacy, 2014, 40, 145-156.	0.9	57
64	Mechanism of synergistic interactions and its influence on drug release from extended release matrices manufactured using binary mixtures of polyethylene oxide and sodium carboxymethylcellulose. Colloids and Surfaces B: Biointerfaces, 2013, 104, 174-180.	2.5	27
65	Mesoporous silica nanoparticles in nanotechnology. Critical Reviews in Biotechnology, 2013, 33, 229-245.	5.1	80
66	Drugâ€“polymer intermolecular interactions in hot-melt extruded solid dispersions. International Journal of Pharmaceutics, 2013, 443, 199-208.	2.6	128
67	A Review of Hot-Melt Extrusion: Process Technology to Pharmaceutical Products. ISRN Pharmaceutics, 2012, 2012, 1-9.	1.0	149
68	Taste masking of paracetamol by hot-melt extrusion: An in vitro and in vivo evaluation. European Journal of Pharmaceutics and Biopharmaceutics, 2012, 80, 433-442.	2.0	134
69	Development and evaluation of orally disintegrating tablets (ODTs) containing Ibuprofen granules prepared by hot melt extrusion. Colloids and Surfaces B: Biointerfaces, 2011, 86, 275-284.	2.5	151
70	Development and characterisation of sodium alginate and HPMC films for mucosal drug delivery. International Journal of Biotechnology, 2010, 11, 169.	1.2	6