

Alvaro Goyanes Goyanes

List of Publications by Citations

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75
papers

6,348
citations

40
h-index

79
g-index

79
ext. papers

7,920
ext. citations

7.2
avg, IF

6.64
L-index

#	Paper	IF	Citations
75	Effect of geometry on drug release from 3D printed tablets. <i>International Journal of Pharmaceutics</i> , 2015 , 494, 657-663	6.5	381
74	Fused-filament 3D printing (3DP) for fabrication of tablets. <i>International Journal of Pharmaceutics</i> , 2014 , 476, 88-92	6.5	372
73	3D printing of modified-release aminosalicylate (4-ASA and 5-ASA) tablets. <i>European Journal of Pharmaceutics and Biopharmaceutics</i> , 2015 , 89, 157-62	5.7	356
72	3D Printing of Medicines: Engineering Novel Oral Devices with Unique Design and Drug Release Characteristics. <i>Molecular Pharmaceutics</i> , 2015 , 12, 4077-84	5.6	314
71	Stereolithographic (SLA) 3D printing of oral modified-release dosage forms. <i>International Journal of Pharmaceutics</i> , 2016 , 503, 207-12	6.5	276
70	3D scanning and 3D printing as innovative technologies for fabricating personalized topical drug delivery systems. <i>Journal of Controlled Release</i> , 2016 , 234, 41-8	11.7	256
69	Selective laser sintering (SLS) 3D printing of medicines. <i>International Journal of Pharmaceutics</i> , 2017 , 529, 285-293	6.5	248
68	3D Printing Pharmaceuticals: Drug Development to Frontline Care. <i>Trends in Pharmacological Sciences</i> , 2018 , 39, 440-451	13.2	232
67	Fabrication of controlled-release budesonide tablets via desktop (FDM) 3D printing. <i>International Journal of Pharmaceutics</i> , 2015 , 496, 414-20	6.5	217
66	Development of modified release 3D printed tablets (printlets) with pharmaceutical excipients using additive manufacturing. <i>International Journal of Pharmaceutics</i> , 2017 , 527, 21-30	6.5	198
65	Low temperature fused deposition modeling (FDM) 3D printing of thermolabile drugs. <i>International Journal of Pharmaceutics</i> , 2018 , 545, 144-152	6.5	169
64	Patient-specific 3D scanned and 3D printed antimicrobial polycaprolactone wound dressings. <i>International Journal of Pharmaceutics</i> , 2017 , 527, 161-170	6.5	158
63	3D printed tablets loaded with polymeric nanocapsules: An innovative approach to produce customized drug delivery systems. <i>International Journal of Pharmaceutics</i> , 2017 , 528, 268-279	6.5	151
62	Fused-filament 3D printing of drug products: Microstructure analysis and drug release characteristics of PVA-based caplets. <i>International Journal of Pharmaceutics</i> , 2016 , 514, 290-295	6.5	149
61	Fabrication of drug-loaded hydrogels with stereolithographic 3D printing. <i>International Journal of Pharmaceutics</i> , 2017 , 532, 313-317	6.5	143
60	Fabricating 3D printed orally disintegrating printlets using selective laser sintering. <i>International Journal of Pharmaceutics</i> , 2018 , 541, 101-107	6.5	139
59	3D printing of drug-loaded gyroid lattices using selective laser sintering. <i>International Journal of Pharmaceutics</i> , 2018 , 547, 44-52	6.5	131

58	Reshaping drug development using 3D printing. <i>Drug Discovery Today</i> , 2018 , 23, 1547-1555	8.8	131
57	Patient acceptability of 3D printed medicines. <i>International Journal of Pharmaceutics</i> , 2017 , 530, 71-78	6.5	128
56	3D Printing of a Multi-Layered Polypill Containing Six Drugs Using a Novel Stereolithographic Method. <i>Pharmaceutics</i> , 2019 , 11,	6.4	127
55	Shaping the future: recent advances of 3D printing in drug delivery and healthcare. <i>Expert Opinion on Drug Delivery</i> , 2019 , 16, 1081-1094	8	103
54	Direct powder extrusion 3D printing: Fabrication of drug products using a novel single-step process. <i>International Journal of Pharmaceutics</i> , 2019 , 567, 118471	6.5	100
53	3D printing: Principles and pharmaceutical applications of selective laser sintering. <i>International Journal of Pharmaceutics</i> , 2020 , 586, 119594	6.5	99
52	An Overview of 3D Printing Technologies for Soft Materials and Potential Opportunities for Lipid-based Drug Delivery Systems. <i>Pharmaceutical Research</i> , 2018 , 36, 4	4.5	95
51	3D Printed Pellets (Miniprintlets): A Novel, Multi-Drug, Controlled Release Platform Technology. <i>Pharmaceutics</i> , 2019 , 11,	6.4	93
50	Automated therapy preparation of isoleucine formulations using 3D printing for the treatment of MSUD: First single-centre, prospective, crossover study in patients. <i>International Journal of Pharmaceutics</i> , 2019 , 567, 118497	6.5	91
49	Influence of Geometry on the Drug Release Profiles of Stereolithographic (SLA) 3D-Printed Tablets. <i>AAPS PharmSciTech</i> , 2018 , 19, 3355-3361	3.9	90
48	3D printed drug products: Non-destructive dose verification using a rapid point-and-shoot approach. <i>International Journal of Pharmaceutics</i> , 2018 , 549, 283-292	6.5	77
47	M3DISEEN: A novel machine learning approach for predicting the 3D printability of medicines. <i>International Journal of Pharmaceutics</i> , 2020 , 590, 119837	6.5	70
46	Vat photopolymerization 3D printing for advanced drug delivery and medical device applications. <i>Journal of Controlled Release</i> , 2021 , 329, 743-757	11.7	68
45	Gastrointestinal release behaviour of modified-release drug products: dynamic dissolution testing of mesalazine formulations. <i>International Journal of Pharmaceutics</i> , 2015 , 484, 103-8	6.5	64
44	PET/CT imaging of 3D printed devices in the gastrointestinal tract of rodents. <i>International Journal of Pharmaceutics</i> , 2018 , 536, 158-164	6.5	63
43	Selective Laser Sintering 3D Printing of Orally Disintegrating Printlets Containing Ondansetron. <i>Pharmaceutics</i> , 2020 , 12,	6.4	56
42	Track-and-trace: Novel anti-counterfeit measures for 3D printed personalized drug products using smart material inks. <i>International Journal of Pharmaceutics</i> , 2019 , 567, 118443	6.5	55
41	3D Printed Tablets (Printlets) with Braille and Moon Patterns for Visually Impaired Patients. <i>Pharmaceutics</i> , 2020 , 12,	6.4	55

40	Semi-solid extrusion 3D printing in drug delivery and biomedicine: Personalised solutions for healthcare challenges. <i>Journal of Controlled Release</i> , 2021 , 332, 367-389	11.7	54
39	Stereolithography (SLA) 3D printing of an antihypertensive polyprintlet: Case study of an unexpected photopolymer-drug reaction. <i>Additive Manufacturing</i> , 2020 , 33, 101071	6.1	50
38	Hydroxypropyl-β-cyclodextrin-based fast dissolving carbamazepine printlets prepared by semisolid extrusion 3D printing. <i>Carbohydrate Polymers</i> , 2019 , 221, 55-62	10.3	47
37	3D printed opioid medicines with alcohol-resistant and abuse-deterrent properties. <i>International Journal of Pharmaceutics</i> , 2020 , 579, 119169	6.5	45
36	A Proof of Concept for 3D Printing of Solid Lipid-Based Formulations of Poorly Water-Soluble Drugs to Control Formulation Dispersion Kinetics. <i>Pharmaceutical Research</i> , 2019 , 36, 102	4.5	40
35	Translating 3D printed pharmaceuticals: From hype to real-world clinical applications. <i>Advanced Drug Delivery Reviews</i> , 2021 , 174, 553-575	18.5	40
34	Non-destructive dose verification of two drugs within 3D printed polyprintlets. <i>International Journal of Pharmaceutics</i> , 2020 , 577, 119066	6.5	39
33	Advances in powder bed fusion 3D printing in drug delivery and healthcare. <i>Advanced Drug Delivery Reviews</i> , 2021 , 174, 406-424	18.5	39
32	Predicting the gastrointestinal behaviour of modified-release products: utility of a novel dynamic dissolution test apparatus involving the use of bicarbonate buffers. <i>International Journal of Pharmaceutics</i> , 2014 , 475, 585-91	6.5	38
31	I Spy with My Little Eye: A Paediatric Visual Preferences Survey of 3D Printed Tablets. <i>Pharmaceutics</i> , 2020 , 12,	6.4	35
30	Harnessing artificial intelligence for the next generation of 3D printed medicines. <i>Advanced Drug Delivery Reviews</i> , 2021 , 175, 113805	18.5	35
29	Anti-biofilm multi drug-loaded 3D printed hearing aids. <i>Materials Science and Engineering C</i> , 2021 , 119, 111606	8.3	33
28	3D printed tacrolimus suppositories for the treatment of ulcerative colitis. <i>Asian Journal of Pharmaceutical Sciences</i> , 2021 , 16, 110-119	9	32
27	Stereolithography (SLA) 3D printing of a bladder device for intravesical drug delivery. <i>Materials Science and Engineering C</i> , 2021 , 120, 111773	8.3	32
26	Disrupting 3D printing of medicines with machine learning. <i>Trends in Pharmacological Sciences</i> , 2021 , 42, 745-757	13.2	28
25	3D Printing of Tunable Zero-Order Release Printlets. <i>Polymers</i> , 2020 , 12,	4.5	27
24	Accelerating the dissolution of enteric coatings in the upper small intestine: evolution of a novel pH 5.6 bicarbonate buffer system to assess drug release. <i>International Journal of Pharmaceutics</i> , 2014 , 468, 172-7	6.5	24
23	Machine learning predicts 3D printing performance of over 900 drug delivery systems. <i>Journal of Controlled Release</i> , 2021 , 337, 530-545	11.7	24

22	Co-processed MCC-Eudragit [®] E excipients for extrusion-spheronization. <i>European Journal of Pharmaceutics and Biopharmaceutics</i> , 2011 , 79, 658-63	5.7	21
21	3D Printed Tacrolimus Rectal Formulations Ameliorate Colitis in an Experimental Animal Model of Inflammatory Bowel Disease. <i>Biomedicines</i> , 2020 , 8,	4.8	20
20	A dynamic in vitro model to evaluate the intestinal release behaviour of modified-release corticosteroid products. <i>Journal of Drug Delivery Science and Technology</i> , 2015 , 25, 36-42	4.5	19
19	Connected healthcare: Improving patient care using digital health technologies. <i>Advanced Drug Delivery Reviews</i> , 2021 , 178, 113958	18.5	19
18	New co-processed MCC-based excipient for fast release of low solubility drugs from pellets prepared by extrusion-spheronization. <i>Drug Development and Industrial Pharmacy</i> , 2015 , 41, 362-8	3.6	16
17	Optical biosensors - Illuminating the path to personalized drug dosing. <i>Biosensors and Bioelectronics</i> , 2021 , 188, 113331	11.8	15
16	A comparison of chitosan-silica and sodium starch glycolate as disintegrants for spheronized extruded microcrystalline cellulose pellets. <i>Drug Development and Industrial Pharmacy</i> , 2011 , 37, 825-31	3.6	14
15	Layered gadolinium hydroxides for simultaneous drug delivery and imaging. <i>Dalton Transactions</i> , 2018 , 47, 3166-3177	4.3	13
14	Electrochemical biosensors: a nexus for precision medicine. <i>Drug Discovery Today</i> , 2021 , 26, 69-79	8.8	13
13	Gastrointestinal Tracking and Gastric Emptying of Coated Capsules in Rats with or without Sedation Using CT imaging. <i>Pharmaceutics</i> , 2020 , 12,	6.4	12
12	Control of drug release by incorporation of sorbitol or mannitol in microcrystalline-cellulose-based pellets prepared by extrusion-spheronization. <i>Pharmaceutical Development and Technology</i> , 2010 , 15, 626-35	3.4	12
11	3D Printing Technologies, Implementation and Regulation: An Overview. <i>AAPS Advances in the Pharmaceutical Sciences Series</i> , 2018 , 21-40	0.5	12
10	Smartphone-enabled 3D printing of medicines. <i>International Journal of Pharmaceutics</i> , 2021 , 609, 121196	6.5	11
9	Chitosan-kaolin coprecipitate as disintegrant in microcrystalline cellulose-based pellets elaborated by extrusion-spheronization. <i>Pharmaceutical Development and Technology</i> , 2013 , 18, 137-45	3.4	10
8	3D Printed Punctal Plugs for Controlled Ocular Drug Delivery. <i>Pharmaceutics</i> , 2021 , 13,	6.4	6
7	A customizable 3D printed device for enzymatic removal of drugs in water. <i>Water Research</i> , 2022 , 208, 117861	12.5	5
6	Direct Powder Extrusion 3D Printing of Praziquantel to Overcome Neglected Disease Formulation Challenges in Paediatric Populations. <i>Pharmaceutics</i> , 2021 , 13,	6.4	5
5	Advancing pharmacy and healthcare with virtual digital technologies.. <i>Advanced Drug Delivery Reviews</i> , 2022 , 182, 114098	18.5	4

4	3D printing of pharmaceutical products 2021 , 569-597		2
3	Volumetric 3D printing for rapid production of medicines. <i>Additive Manufacturing</i> , 2022 , 52, 102673	6.1	1
2	Prediction of Solid-State Form of SLS 3D Printed Medicines Using NIR and Raman Spectroscopy.. <i>Pharmaceutics</i> , 2022 , 14,	6.4	1
1	3D printed pharmaceuticals and medical devices: an interview with Alvaro Goyanes. <i>Journal of 3D Printing in Medicine</i> , 2017 , 1, 145-147	1.5	