Alvaro Goyanes Goyanes

List of Publications by Year in Descending Order

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	Advancing pharmacy and healthcare with virtual digital technologies.. *Advanced Drug Delivery Reviews*, **2022**, 182, 114098	18.5	4
74	Volumetric 3D printing for rapid production of medicines. *Additive Manufacturing*, **2022**, 52, 102673	6.1	1
73	A customizable 3D printed device for enzymatic removal of drugs in water. *Water Research*, **2022**, 208, 117861	12.5	5
72	Prediction of Solid-State Form of SLS 3D Printed Medicines Using NIR and Raman Spectroscopy.. *Pharmaceutics*, **2022**, 14,	6.4	1
71	Smartphone-enabled 3D printing of medicines. *International Journal of Pharmaceutics*, **2021**, 609, 121199	8.5	11
70	Semi-solid extrusion 3D printing in drug delivery and biomedicine: Personalised solutions for healthcare challenges. *Journal of Controlled Release*, **2021**, 332, 367-389	11.7	54
69	Advances in powder bed fusion 3D printing in drug delivery and healthcare. *Advanced Drug Delivery Reviews*, **2021**, 174, 406-424	18.5	39
68	Direct Powder Extrusion 3D Printing of Praziquantel to Overcome Neglected Disease Formulation Challenges in Paediatric Populations. *Pharmaceutics*, **2021**, 13,	6.4	5
67	Translating 3D printed pharmaceuticals: From hype to real-world clinical applications. *Advanced Drug Delivery Reviews*, **2021**, 174, 553-575	18.5	40
66	Electrochemical biosensors: a nexus for precision medicine. *Drug Discovery Today*, **2021**, 26, 69-79	8.8	13
65	3D printed tacrolimus suppositories for the treatment of ulcerative colitis. *Asian Journal of Pharmaceutical Sciences*, **2021**, 16, 110-119	9	32
64	Anti-biofilm multi drug-loaded 3D printed hearing aids. *Materials Science and Engineering C*, **2021**, 119, 111606	8.3	33
63	Vat photopolymerization 3D printing for advanced drug delivery and medical device applications. *Journal of Controlled Release*, **2021**, 329, 743-757	11.7	68
62	Stereolithography (SLA) 3D printing of a bladder device for intravesical drug delivery. *Materials Science and Engineering C*, **2021**, 120, 111773	8.3	32
61	Harnessing artificial intelligence for the next generation of 3D printed medicines. *Advanced Drug Delivery Reviews*, **2021**, 175, 113805	18.5	35
60	Connected healthcare: Improving patient care using digital health technologies. *Advanced Drug Delivery Reviews*, **2021**, 178, 113958	18.5	19
59	3D Printed Punctal Plugs for Controlled Ocular Drug Delivery. *Pharmaceutics*, **2021**, 13,	6.4	6

58	Optical biosensors - Illuminating the path to personalized drug dosing. *Biosensors and Bioelectronics*, **2021**, 188, 113331	11.8	15
57	Disrupting 3D printing of medicines with machine learning. *Trends in Pharmacological Sciences*, **2021**, 42, 745-757	13.2	28
56	Machine learning predicts 3D printing performance of over 900 drug delivery systems. *Journal of Controlled Release*, **2021**, 337, 530-545	11.7	24
55	3D printing of pharmaceutical products **2021**, 569-597		2
54	3D printing: Principles and pharmaceutical applications of selective laser sintering. *International Journal of Pharmaceutics*, **2020**, 586, 119594	6.5	99
53	3D printed opioid medicines with alcohol-resistant and abuse-deterrent properties. *International Journal of Pharmaceutics*, **2020**, 579, 119169	6.5	45
52	3D Printed Tablets (Printlets) with Braille and Moon Patterns for Visually Impaired Patients. *Pharmaceutics*, **2020**, 12,	6.4	55
51	Stereolithography (SLA) 3D printing of an antihypertensive polyprintlet: Case study of an unexpected photopolymer-drug reaction. *Additive Manufacturing*, **2020**, 33, 101071	6.1	50
50	Non-destructive dose verification of two drugs within 3D printed polyprintlets. *International Journal of Pharmaceutics*, **2020**, 577, 119066	6.5	39
49	Gastrointestinal Tracking and Gastric Emptying of Coated Capsules in Rats with or without Sedation Using CT imaging. *Pharmaceutics*, **2020**, 12,	6.4	12
48	Selective Laser Sintering 3D Printing of Orally Disintegrating Printlets Containing Ondansetron. *Pharmaceutics*, **2020**, 12,	6.4	56
47	M3DISEEN: A novel machine learning approach for predicting the 3D printability of medicines. *International Journal of Pharmaceutics*, **2020**, 590, 119837	6.5	70
46	I Spy with My Little Eye: A Paediatric Visual Preferences Survey of 3D Printed Tablets. *Pharmaceutics*, **2020**, 12,	6.4	35
45	3D Printed Tacrolimus Rectal Formulations Ameliorate Colitis in an Experimental Animal Model of Inflammatory Bowel Disease. *Biomedicines*, **2020**, 8,	4.8	20
44	3D Printing of Tunable Zero-Order Release Printlets. *Polymers*, **2020**, 12,	4.5	27
43	Shaping the future: recent advances of 3D printing in drug delivery and healthcare. *Expert Opinion on Drug Delivery*, **2019**, 16, 1081-1094	8	103
42	Track-and-trace: Novel anti-counterfeit measures for 3D printed personalized drug products using smart material inks. *International Journal of Pharmaceutics*, **2019**, 567, 118443	6.5	55
41	Direct powder extrusion 3D printing: Fabrication of drug products using a novel single-step process. *International Journal of Pharmaceutics*, **2019**, 567, 118471	6.5	100

40	Hydroxypropyl-Ecyclodextrin-based fast dissolving carbamazepine printlets prepared by semisolid extrusion 3D printing. *Carbohydrate Polymers*, **2019**, 221, 55-62	10.3	47
39	A Proof of Concept for 3D Printing of Solid Lipid-Based Formulations of Poorly Water-Soluble Drugs to Control Formulation Dispersion Kinetics. *Pharmaceutical Research*, **2019**, 36, 102	4.5	40
38	3D Printed Pellets (Miniprintlets): A Novel, Multi-Drug, Controlled Release Platform Technology. *Pharmaceutics*, **2019**, 11,	6.4	93
37	3D Printing of a Multi-Layered Polypill Containing Six Drugs Using a Novel Stereolithographic Method. *Pharmaceutics*, **2019**, 11,	6.4	127
36	Automated therapy preparation of isoleucine formulations using 3D printing for the treatment of MSUD: First single-centre, prospective, crossover study in patients. *International Journal of Pharmaceutics*, **2019**, 567, 118497	6.5	91
35	Fabricating 3D printed orally disintegrating printlets using selective laser sintering. *International Journal of Pharmaceutics*, **2018**, 541, 101-107	6.5	139
34	Layered gadolinium hydroxides for simultaneous drug delivery and imaging. *Dalton Transactions*, **2018**, 47, 3166-3177	4.3	13
33	Low temperature fused deposition modeling (FDM) 3D printing of thermolabile drugs. *International Journal of Pharmaceutics*, **2018**, 545, 144-152	6.5	169
32	3D Printing Pharmaceuticals: Drug Development to Frontline Care. *Trends in Pharmacological Sciences*, **2018**, 39, 440-451	13.2	232
31	3D printed drug products: Non-destructive dose verification using a rapid point-and-shoot approach. *International Journal of Pharmaceutics*, **2018**, 549, 283-292	6.5	77
30	Influence of Geometry on the Drug Release Profiles of Stereolithographic (SLA) 3D-Printed Tablets. *AAPS PharmSciTech*, **2018**, 19, 3355-3361	3.9	90
29	3D Printing Technologies, Implementation and Regulation: An Overview. *AAPS Advances in the Pharmaceutical Sciences Series*, **2018**, 21-40	0.5	12
28	An Overview of 3D Printing Technologies for Soft Materials and Potential Opportunities for Lipid-based Drug Delivery Systems. *Pharmaceutical Research*, **2018**, 36, 4	4.5	95
27	PET/CT imaging of 3D printed devices in the gastrointestinal tract of rodents. *International Journal of Pharmaceutics*, **2018**, 536, 158-164	6.5	63
26	3D printing of drug-loaded gyroid lattices using selective laser sintering. *International Journal of Pharmaceutics*, **2018**, 547, 44-52	6.5	131
25	Reshaping drug development using 3D printing. *Drug Discovery Today*, **2018**, 23, 1547-1555	8.8	131
24	Development of modified release 3D printed tablets (printlets) with pharmaceutical excipients using additive manufacturing. *International Journal of Pharmaceutics*, **2017**, 527, 21-30	6.5	198
23	Patient-specific 3D scanned and 3D printed antimicrobial polycaprolactone wound dressings. *International Journal of Pharmaceutics*, **2017**, 527, 161-170	6.5	158

22	3D printed pharmaceuticals and medical devices: an interview with Álvaro Goyanes. *Journal of 3D Printing in Medicine*, **2017**, 1, 145-147	1.5	
21	Fabrication of drug-loaded hydrogels with stereolithographic 3D printing. *International Journal of Pharmaceutics*, **2017**, 532, 313-317	6.5	143
20	Patient acceptability of 3D printed medicines. *International Journal of Pharmaceutics*, **2017**, 530, 71-78	6.5	128
19	Selective laser sintering (SLS) 3D printing of medicines. *International Journal of Pharmaceutics*, **2017**, 529, 285-293	6.5	248
18	3D printed tablets loaded with polymeric nanocapsules: An innovative approach to produce customized drug delivery systems. *International Journal of Pharmaceutics*, **2017**, 528, 268-279	6.5	151
17	Stereolithographic (SLA) 3D printing of oral modified-release dosage forms. *International Journal of Pharmaceutics*, **2016**, 503, 207-12	6.5	276
16	Fused-filament 3D printing of drug products: Microstructure analysis and drug release characteristics of PVA-based caplets. *International Journal of Pharmaceutics*, **2016**, 514, 290-295	6.5	149
15	3D scanning and 3D printing as innovative technologies for fabricating personalized topical drug delivery systems. *Journal of Controlled Release*, **2016**, 234, 41-8	11.7	256
14	New co-processed MCC-based excipient for fast release of low solubility drugs from pellets prepared by extrusion-spheronization. *Drug Development and Industrial Pharmacy*, **2015**, 41, 362-8	3.6	16
13	Gastrointestinal release behaviour of modified-release drug products: dynamic dissolution testing of mesalazine formulations. *International Journal of Pharmaceutics*, **2015**, 484, 103-8	6.5	64
12	Effect of geometry on drug release from 3D printed tablets. *International Journal of Pharmaceutics*, **2015**, 494, 657-663	6.5	381
11	Fabrication of controlled-release budesonide tablets via desktop (FDM) 3D printing. *International Journal of Pharmaceutics*, **2015**, 496, 414-20	6.5	217
10	3D Printing of Medicines: Engineering Novel Oral Devices with Unique Design and Drug Release Characteristics. *Molecular Pharmaceutics*, **2015**, 12, 4077-84	5.6	314
9	A dynamic in´vitro model to evaluate the intestinal release behaviour of modified-release corticosteroid products. *Journal of Drug Delivery Science and Technology*, **2015**, 25, 36-42	4.5	19
8	3D printing of modified-release aminosalicylate (4-ASA and 5-ASA) tablets. *European Journal of Pharmaceutics and Biopharmaceutics*, **2015**, 89, 157-62	5.7	356
7	Predicting the gastrointestinal behaviour of modified-release products: utility of a novel dynamic dissolution test apparatus involving the use of bicarbonate buffers. *International Journal of Pharmaceutics*, **2014**, 475, 585-91	6.5	38
6	Fused-filament 3D printing (3DP) for fabrication of tablets. *International Journal of Pharmaceutics*, **2014**, 476, 88-92	6.5	372
5	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. *International Journal of Pharmaceutics*, **2014**, 468, 172-7	6.5	24

4	Chitosan-kaolin coprecipitate as disintegrant in microcrystalline cellulose-based pellets elaborated by extrusion-spheronization. *Pharmaceutical Development and Technology*, **2013**, 18, 137-45	3.4	10
3	A comparison of chitosan-silica and sodium starch glycolate as disintegrants for spheronized extruded microcrystalline cellulose pellets. *Drug Development and Industrial Pharmacy*, **2011**, 37, 825-31	3.6	14
2	Co-processed MCC-Eudragit E excipients for extrusion-spheronization. *European Journal of Pharmaceutics and Biopharmaceutics*, **2011**, 79, 658-63	5.7	21
1	Control of drug release by incorporation of sorbitol or mannitol in microcrystalline-cellulose-based pellets prepared by extrusion-spheronization. *Pharmaceutical Development and Technology*, **2010**, 15, 626-35	3.4	12