Dimitrios G Fatouros

List of Publications by Year
in descending order

112 papers	3,808 citations	109264 35 h-index	149623 56 g-index
115 all docs	115 docs citations	115 times ranked	4391 citing authors

#	Article	IF	Citations
1	Semi-solid extrusion 3D printing of starch-based soft dosage forms for the treatment of paediatric latent tuberculosis infection. Journal of Pharmacy and Pharmacology, 2022, 74, 1498-1506.	1.2	12
2	Transdermal delivery of insulin across human skin in vitro with 3D printed hollow microneedles. Journal of Drug Delivery Science and Technology, 2022, 67, 102891.	1.4	13
3	NGIWY-Amide: A Bioinspired Ultrashort Self-Assembled Peptide Gelator for Local Drug Delivery Applications. Pharmaceutics, 2022, 14, 133.	2.0	7
4	Silk sericin/PLGA electrospun scaffolds with anti-inflammatory drug-eluting properties for periodontal tissue engineering. Materials Science and Engineering C, 2022, 133, 112723.	3.8	13
5	The Advent of a New Era in Digital Healthcare: A Role for 3D Printing Technologies in Drug Manufacturing?. Pharmaceutics, 2022, 14, 609.	2.0	32
6	Development and validation of HPLC-DAD and LC-(ESI)/MS methods for the determination of sulfasalazine, mesalazine and hydrocortisone 21-acetate in tablets and rectal suppositories: In vitro and ex vivo permeability studies. Journal of Chromatography B: Analytical Technologies in the Biomedical and Life Sciences, 2022, 1198, 123246.	1.2	5
7	Analytical quality-by-design optimization of UHPLC method for the analysis of octreotide release from a peptide-based hydrogel in-vitro. Journal of Pharmaceutical and Biomedical Analysis, 2022, 214, 114699.	1.4	5
8	In Situ Gelling Electrospun Ocular Films Sustain the Intraocular Pressure-Lowering Effect of Timolol Maleate: In Vitro, Ex Vivo, and Pharmacodynamic Assessment. Molecular Pharmaceutics, 2022, 19, 274-286.	2.3	12
9	Electrospun Nanofiber Films Suppress Inflammation In Vitro and Eradicate Endodontic Bacterial Infection in an E. faecalis-Infected Ex Vivo Human Tooth Culture Model. ACS Biomaterials Science and Engineering, 2022, 8, 2096-2110.	2.6	4
10	Cereal-Based 3D Printed Dosage Forms for Drug Administration During Breakfast in Pediatric Patients within a Hospital Setting. Journal of Pharmaceutical Sciences, 2022, 111, 2562-2570.	1.6	14
11	Stability and rheology of plantâ€derived hydrocolloid â€“ mucin mixtures. Journal of Texture Studies, 2022, , .	1.1	1
12	Towards analyzing the potential of exosomes to deliver microRNA therapeutics. Journal of Cellular Physiology, 2021, 236, 1529-1544.	2.0	17
13	Haptic Evaluation of 3D-printed Braille-encoded Intraoral Films. European Journal of Pharmaceutical Sciences, 2021, 157, 105605.	1.9	28
14	3D printing of patient-tailored SNEDDS-based suppositories of lidocaine. Journal of Drug Delivery Science and Technology, 2021, 61, 102292.	1.4	17
15	Development of Water-Soluble Electrospun Fibers for the Oral Delivery of Cannabinoids. AAPS PharmSciTech, 2021, 22, 23.	1.5	15
16	Oral Drug Delivery Systems Based on Ordered Mesoporous Silica Nanoparticles for Modulating the Release of Aprepitant. International Journal of Molecular Sciences, 2021, 22, 1896.	1.8	17
17	Fabrication of hollow microneedles using liquid crystal display (LCD) vat polymerization 3D printing technology for transdermal macromolecular delivery. International Journal of Pharmaceutics, 2021, 597, 120303.	2.6	48
18	Development and validation of LC-MS/MS method for the determination of UV-filters across human skin in vitro. Journal of Chromatography B: Analytical Technologies in the Biomedical and Life Sciences, 2021, 1167, 122561.	1.2	6

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19	Patent landscape of pediatric-friendly oral dosage forms and administration devices. Expert Opinion on Therapeutic Patents, 2021, 31, 663-685.	2.4	13
20	Automated digital design for 3D-printed individualized therapies. International Journal of Pharmaceutics, 2021, 599, 120437.	2.6	24
21	Self-assembling peptides as vectors for local drug delivery and tissue engineering applications. Advanced Drug Delivery Reviews, 2021, 174, 387-405.	6.6	36
22	Amoxicillin chewable tablets intended for pediatric use: formulation development, stability evaluation and taste assessment. Pharmaceutical Development and Technology, 2021, 26, 978-988.	1.1	1
23	Mucosal drug delivery and 3D printing technologies: A focus on special patient populations. Advanced Drug Delivery Reviews, 2021, 176, 113858.	6.6	36
24	Preface : Additive Manufacturing in Pharmaceutical Product Design. Advanced Drug Delivery Reviews, 2021, 178, 113991.	6.6	0
25	3D-Printed Scaffolds from Alginate/Methyl Cellulose/Trimethyl Chitosan/Silicate Glasses for Bone Tissue Engineering. Applied Sciences (Switzerland), 2021, 11, 8677.	1.3	12
26	Engineered mucoadhesive microparticles of formoterol/budesonide for pulmonary administration. European Journal of Pharmaceutical Sciences, 2021, 165, 105955.	1.9	2
27	Physicochemical properties of human breast milk during the second year of lactation. Current Research in Food Science, 2021, 4, 565-576.	2.7	7
28	High-Drug-Loading Amorphous Solid Dispersions via In Situ Thermal Cross-Linking: Unraveling the Mechanisms of Stabilization. Molecular Pharmaceutics, 2021, 18, 4393-4414.	2.3	10
29	FDM-printed pH-responsive capsules for the oral delivery of a model macromolecular dye. Pharmaceutical Development and Technology, 2020, 25, 517-523.	1.1	23
30	Fabrication of an osmotic 3D printed solid dosage form for controlled release of active pharmaceutical ingredients. European Journal of Pharmaceutical Sciences, 2020, 143, 105176.	1.9	67
31	Quality by Design Micro-Engineering Optimisation of NSAID-Loaded Electrospun Fibrous Patches. Pharmaceutics, 2020, 12, 2.	2.0	5
32	Electrospinning/electrospraying coatings for metal microneedles: A design of experiments (DOE) and quality by design (QbD) approach. European Journal of Pharmaceutics and Biopharmaceutics, 2020, 156, 20-39.	2.0	19
33	In Vitro Evaluation of Self-Nano-Emulsifying Drug Delivery Systems (SNEDDS) Containing Room Temperature Ionic Liquids (RTILs) for the Oral Delivery of Amphotericin B. Pharmaceutics, 2020, 12, 699.	2.0	27
34	Self-Nanoemulsifying Drug Delivery Systems (SNEDDS) Containing Rice Bran Oil for Enhanced Fenofibrate Oral Delivery: In Vitro Digestion, Ex Vivo Permeability, and In Vivo Bioavailability Studies. AAPS PharmSciTech, 2020, 21, 208.	1.5	12
35	Development and Characterization of Inkjet Printed Edible Films for Buccal Delivery of B-Complex Vitamins. Pharmaceuticals, 2020, 13, 203.	1.7	15
36	Electrospun Orodispersible Films of Isoniazid for Pediatric Tuberculosis Treatment. Pharmaceutics, 2020, 12, 470.	2.0	37

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37	Fabrication of Mucoadhesive Buccal Films for Local Administration of Ketoprofen and Lidocaine Hydrochloride by Combining Fused Deposition Modeling and Inkjet Printing. Journal of Pharmaceutical Sciences, 2020, 109, 2757-2766.	1.6	52
38	Manufacturing of hybrid drug delivery systems by utilizing the fused filament fabrication (FFF) technology. Expert Opinion on Drug Delivery, 2020, 17, 1063-1068.	2.4	17
39	Physico-mechanical and finite element analysis evaluation of 3D printable alginate-methylcellulose inks for wound healing applications. Carbohydrate Polymers, 2020, 247, 116666.	5.1	44
40	Application of mesoporous silica nanoparticles as drug delivery carriers for chemotherapeutic agents. Drug Discovery Today, 2020, 25, 1513-1520.	3.2	83
41	Partial Least Square Model (PLS) as a Tool to Predict the Diffusion of Steroids Across Artificial Membranes. Molecules, 2020, 25, 1387.	1.7	9
42	Inkjet printing of a thermolabile model drug onto FDM-printed substrates: formulation and evaluation. Drug Development and Industrial Pharmacy, 2020, 46, 1253-1264.	0.9	36
43	Ocular Co-Delivery of Timolol and Brimonidine from a Self-Assembling Peptide Hydrogel for the Treatment of Glaucoma: In Vitro and Ex Vivo Evaluation. Pharmaceuticals, 2020, 13, 126.	1.7	19
44	Development of food grade 3D printable ink based on pectin containing cannabidiol/cyclodextrin inclusion complexes. Drug Development and Industrial Pharmacy, 2020, 46, 1569-1577.	0.9	20
45	Pediatric-friendly chocolate-based dosage forms for the oral administration of both hydrophilic and lipophilic drugs fabricated with extrusion-based 3D printing. European Journal of Pharmaceutical Sciences, 2020, 147, 105291.	1.9	91
46	Towards the development of Self-Nano-Emulsifying Drug Delivery Systems (SNEDDS) containing trimethyl chitosan for the oral delivery of amphotericin B: In vitro assessment and cytocompatibility studies. Journal of Drug Delivery Science and Technology, 2020, 56, 101524.	1.4	18
47	Development of Bio-Active Patches Based on Pectin for the Treatment of Ulcers and Wounds Using 3D-Bioprinting Technology. Pharmaceutics, 2020, 12, 56.	2.0	84
48	Solid Dosage Forms of Dexamethasone Sodium Phosphate Intended for Pediatric Use: Formulation and Stability Studies. Pharmaceutics, 2020, 12, 354.	2.0	2
49	Chitosan-coated PLGA nanoparticles for the nasal delivery of ropinirole hydrochloride: In vitro and ex vivo evaluation of efficacy and safety. International Journal of Pharmaceutics, 2020, 589, 119776.	2.6	64
50	Design, characterisation and drug release study of polymeric, drugâ€eluting single layer thin films on the surface of intraocular lenses. IET Nanobiotechnology, 2020, 14, 501-507.	1.9	5
51	Experimental and molecular dynamics simulation studies of an anti-hyperlipidemic drug release from microporous zeolites differing in Si/Al content. Microporous and Mesoporous Materials, 2020, 305, 110343.	2.2	6
52	In Vitro and Ex Vivo Evaluation of Tablets Containing Piroxicam-Cyclodextrin Complexes for Buccal Delivery. Pharmaceutics, 2019, 11, 398.	2.0	12
53	Fabrication and finite element analysis of stereolithographic 3D printed microneedles for transdermal delivery of model dyes across human skin in vitro. European Journal of Pharmaceutical Sciences, 2019, 137, 104976.	1.9	78
54	Unidirectional drug release from 3D printed mucoadhesive buccal films using FDM technology: In vitro and ex vivo evaluation. European Journal of Pharmaceutics and Biopharmaceutics, 2019, 144, 180-192.	2.0	90

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55	Tackling pharmacological response heterogeneity by PBPK modeling to advance precision medicine productivity of nanotechnology and genomics therapeutics. Expert Review of Precision Medicine and Drug Development, 2019, 4, 139-151.	0.4	21
56	Synergistic Antitumor Potency of a Self-Assembling Peptide Hydrogel for the Local Co-delivery of Doxorubicin and Curcumin in the Treatment of Head and Neck Cancer. Molecular Pharmaceutics, 2019, 16, 2326-2341.	2.3	67
57	In vitro and ex vivo assessment of microporous Faujasite zeolite (NaX-FAU) as a carrier for the oral delivery of danazol. Journal of Drug Delivery Science and Technology, 2019, 51, 177-184.	1.4	16
58	Liposome formulations of o-carborane for the boron neutron capture therapy of cancer. Biophysical Chemistry, 2019, 247, 25-33.	1.5	21
59	In Vitro Digestion of caseinate and Tween 20 Emulsions. Food Biophysics, 2019, 14, 60-68.	1.4	19
60	Recent advances in pharmaceutical dosage forms and devices using additive manufacturing technologies. Drug Discovery Today, 2019, 24, 636-643.	3.2	89
61	Development and Characterization of a Self-Nanoemulsifying Drug Delivery System Comprised of Rice Bran Oil for Poorly Soluble Drugs. AAPS PharmSciTech, 2019, 20, 78.	1.5	22
62	Polymerâ€“Lipid Microparticles for Pulmonary Delivery. Langmuir, 2018, 34, 3438-3448.	1.6	12
63	A 3D printed bilayer oral solid dosage form combining metformin for prolonged and glimepiride for immediate drug delivery. European Journal of Pharmaceutical Sciences, 2018, 120, 40-52.	1.9	145
64	Electrosprayed mesoporous particles for improved aqueous solubility of a poorly water soluble anticancer agent: in vitro and ex vivo evaluation. Journal of Controlled Release, 2018, 278, 142-155.	4.8	62
65	Design and fabrication of drugâ€eluting polymeric thin films for applications in ophthalmology. IET Nanobiotechnology, 2018, 12, 1074-1079.	1.9	7
66	Chemotherapeutic Delivery from a Self-Assembling Peptide Nanofiber Hydrogel for the Management of Glioblastoma. Pharmaceutical Research, 2018, 35, 166.	1.7	39
67	In Vitro Evaluation of 2D-Printed Edible Films for the Buccal Delivery of Diclofenac Sodium. Materials, 2018, 11, 864.	1.3	20
68	Controlled Release of 5-Fluorouracil from Alginate Beads Encapsulated in 3D Printed pH-Responsive Solid Dosage Forms. AAPS PharmSciTech, 2018, 19, 3362-3375.	1.5	57
69	Ex vivo buccal drug delivery of ropinirole hydrochloride in the presence of permeation enhancers: the effect of charge. Pharmaceutical Development and Technology, 2017, 22, 1017-1021.	1.1	17
70	Mapping the intermediate digestion phases of human healthy intestinal contents from distal ileum and caecum at fasted and fed state conditions. Journal of Pharmacy and Pharmacology, 2017, 69, 265-273.	1.2	5
71	Development and characterisation of cellulose based electrospun mats for buccal delivery of non-steroidal anti-inflammatory drug (NSAID). European Journal of Pharmaceutical Sciences, 2017, 102, 147-155.	1.9	44
72	Comparison of different zeolite framework types as carriers for the oral delivery of the poorly soluble drug indomethacin. International Journal of Pharmaceutics, 2017, 528, 76-87.	2.6	29

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73	3D printed oral solid dosage forms containing hydrochlorothiazide for controlled drug delivery. Journal of Drug Delivery Science and Technology, 2017, 40, 164-171.	1.4	120
74	Fibrous polymeric buccal film formulation, engineering and bio-interface assessment. European Polymer Journal, 2017, 97, 147-157.	2.6	15
75	Evaluation of sesquiterpenes as permeation enhancers for a model macromolecule across human skin inÂvitro. Journal of Drug Delivery Science and Technology, 2017, 41, 384-389.	1.4	3
76	Self-Assembling Peptide Nanofiber Hydrogels for Controlled Ocular Delivery of Timolol Maleate. ACS Biomaterials Science and Engineering, 2017, 3, 3386-3394.	2.6	34
77	ADVANCING THE PRACTICAL CLINICAL UTILITY IN PERSONALIZED MEDICINE: CAPABILITIES AND LESSONS LEARNED FOR PHARMACOLOGY AND PHARMACEUTICS. , 2016, , 297-323.		0
78	Enabling personalized cancer medicine decisions: The challenging pharmacological approach of PBPK models for nanomedicine and pharmacogenomics (Review). Oncology Reports, 2016, 35, 1891-1904.	1.2	22
79	Pharmacological Development of Target-Specific Delocalized Lipophilic Cation-Functionalized Carboranes for Cancer Therapy. Pharmaceutical Research, 2016, 33, 1945-1958.	1.7	18
80	Evaluation of mesoporous carbon aerogels as carriers of the non-steroidal anti-inflammatory drug ibuprofen. International Journal of Pharmaceutics, 2016, 515, 262-270.	2.6	23
81	Synthesis of carbon nanotubes loaded hydroxyapatite: Potential for controlled drug release from bone implants. Journal of Advanced Ceramics, 2016, 5, 232-243.	8.9	16
82	Dissolution enhancement of the poorly soluble drug nifedipine by co-spray drying with microporous zeolite beta. Journal of Drug Delivery Science and Technology, 2016, 35, 91-97.	1.4	18
83	PLGA/DPPC/trimethylchitosan spray-dried microparticles for the nasal delivery of ropinirole hydrochloride: in vitro , ex vivo and cytocompatibility assessment. Materials Science and Engineering C, 2016, 59, 1053-1062.	3.8	30
84	Smart materials: in situ gel-forming systems for nasal delivery. Drug Discovery Today, 2016, 21, 157-166.	3.2	123
85	Bioactive Self-Assembling Lipid-Like Peptides as Permeation Enhancers for Oral Drug Delivery. Journal of Pharmaceutical Sciences, 2015, 104, 2304-2311.	1.6	20
86	Structural features of colloidal species in the human fasted upper small intestine. Journal of Pharmacy and Pharmacology, 2015, 67, 486-492.	1.2	17
87	Preparation and Characterization of Bioadhesive Microparticles Comprised of Low Degree of Quaternization Trimethylated Chitosan for Nasal Administration: Effect of Concentration and Molecular Weight. Langmuir, 2014, 30, 12337-12344.	1.6	11
88	Preparation and characterization of multiactive electrospun fibers: Polyâ€É›â€carpolactone fibers loaded with hydroxyapatite and selected NSAIDs. Journal of Biomedical Materials Research - Part A, 2014, 102, 2583-2589.	2.1	11
89	Controlled release of 5-fluorouracil from microporous zeolites. Nanomedicine: Nanotechnology, Biology, and Medicine, 2014, 10, 197-205.	1.7	69
90	Lipid-like Self-Assembling Peptide Nanovesicles for Drug Delivery. ACS Applied Materials & Interfaces, 2014, 6, 8184-8189.	4.0	95

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91	Electrospun PVPâ€“indomethacin constituents for transdermal dressings and drug delivery devices. International Journal of Pharmaceutics, 2014, 473, 95-104.	2.6	87
92	Towards boron neutron capture therapy: The formulation and preliminary in vitro evaluation of liposomal vehicles for the therapeutic delivery of the dequalinium salt of bis-nido-carborane. Bioorganic and Medicinal Chemistry Letters, 2013, 23, 6161-6166.	1.0	20
93	Biomedical applications of carbon nanotubes. Annual Reports on the Progress of Chemistry Section C, 2013, 109, 10.	4.4	54
94	Development of new drug delivery system based on ordered mesoporous carbons: characterisation and cytocompatibility studies. Journal of Materials Chemistry B, 2013, 1, 3167.	2.9	37
95	Unravelling the ultrastructure of ascending colon fluids from patients with ulcerative colitis by cryogenic transmission electron microscopy. Journal of Pharmacy and Pharmacology, 2013, 65, 1482-1487.	1.2	9
96	Hydrogels in mucosal delivery. Therapeutic Delivery, 2012, 3, 535-555.	1.2	15
97	Insights into Intermediate Phases of Human Intestinal Fluids Visualized by Atomic Force Microscopy and Cryo-Transmission Electron Microscopy ex Vivo. Molecular Pharmaceutics, 2012, 9, 237-247.	2.3	59
98	Personalized nanomedicine: paving the way to the practical clinical utility of genomics and nanotechnology advancements. Advanced Drug Delivery Reviews, 2012, 64, 1359-1362.	6.6	25
99	In vitro and in silico investigations of drug delivery via zeolite BEA. Journal of Materials Chemistry, 2011, 21, 7789.	6.7	56
100	Stabilisation of SWNTs by alkyl-sulfate chitosan derivatives of different molecular weight: towards the preparation of hybrids with anticoagulant properties. Nanoscale, 2011, 3, 1218.	2.8	12
101	The preparation of magnetically guided lipid based nanoemulsions using self-emulsifying technology. Nanotechnology, 2010, 21, 055104.	1.3	5
102	Colloidal Structures in Media Simulating Intestinal Fed State Conditions with and Without Lipolysis Products. Pharmaceutical Research, 2009, 26, 361-374.	1.7	65
103	In vitrolipid digestion models in design of drug delivery systems for enhancing oral bioavailability. Expert Opinion on Drug Metabolism and Toxicology, 2008, 4, 65-76.	1.5	78
104	In vitroâ€“in vivo correlations of self-emulsifying drug delivery systems combining the dynamic lipolysis model and neuro-fuzzy networks. European Journal of Pharmaceutics and Biopharmaceutics, 2008, 69, 887-898.	2.0	46
105	Morphological observations on a lipid-based drug delivery system during in vitro digestion. European Journal of Pharmaceutical Sciences, 2007, 31, 85-94.	1.9	124
106	Structural Development of Self Nano Emulsifying Drug Delivery Systems (SNEDDS) During In Vitro Lipid Digestion Monitored by Small-angle X-ray Scattering. Pharmaceutical Research, 2007, 24, 1844-1853.	1.7	109
107	Clinical studies with oral lipid based formulations of poorly soluble compounds. Therapeutics and Clinical Risk Management, 2007, 3, 591-604.	0.9	66
108	Stability and aggregation studies of non-sonicated arsonolipid-containing vesicles. Cellular and Molecular Biology Letters, 2005, 10, 173-83.	2.7	5

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109	Iontophoretic Enhancement of Timolol across Human Dermatomed SkinIn Vitro. Journal of Drug Targeting, 2004, 12, 19-24.	2.1	13
110	Effect of Amphiphilic Drugs on the Stability and Zeta-Potential of Their Liposome Formulations: A Study with Prednisolone, Diazepam, and Griseofulvin. Journal of Colloid and Interface Science, 2002, 251, 271-277.	5.0	102
111	Physicochemical Properties of Liposomes Incorporating Hydrochlorothiazide and Chlorothiazide. Journal of Drug Targeting, 2001, 9, 61-74.	2.1	15
112	Stability of SUV liposomes in the presence of cholate salts and pancreatic lipases: effect of lipid composition. European Journal of Pharmaceutical Sciences, 2000, 9, 245-252.	1.9	119