

Dimitrios G Fatouros

List of Publications by Year in descending order

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Version: 2024-02-01

112
papers

3,808
citations

109321

35
h-index

149698

56
g-index

115
all docs

115
docs citations

115
times ranked

4391
citing authors

#	ARTICLE	IF	CITATIONS
1	A 3D printed bilayer oral solid dosage form combining metformin for prolonged and glimepiride for immediate drug delivery. <i>European Journal of Pharmaceutical Sciences</i> , 2018, 120, 40-52.	4.0	145
2	Morphological observations on a lipid-based drug delivery system during in vitro digestion. <i>European Journal of Pharmaceutical Sciences</i> , 2007, 31, 85-94.	4.0	124
3	Smart materials: in situ gel-forming systems for nasal delivery. <i>Drug Discovery Today</i> , 2016, 21, 157-166.	6.4	123
4	3D printed oral solid dosage forms containing hydrochlorothiazide for controlled drug delivery. <i>Journal of Drug Delivery Science and Technology</i> , 2017, 40, 164-171.	3.0	120
5	Stability of SUV liposomes in the presence of cholate salts and pancreatic lipases: effect of lipid composition. <i>European Journal of Pharmaceutical Sciences</i> , 2000, 9, 245-252.	4.0	119
6	Structural Development of Self Nano Emulsifying Drug Delivery Systems (SNEDDS) During In Vitro Lipid Digestion Monitored by Small-angle X-ray Scattering. <i>Pharmaceutical Research</i> , 2007, 24, 1844-1853.	3.5	109
7	Effect of Amphiphilic Drugs on the Stability and Zeta-Potential of Their Liposome Formulations: A Study with Prednisolone, Diazepam, and Griseofulvin. <i>Journal of Colloid and Interface Science</i> , 2002, 251, 271-277.	9.4	102
8	Lipid-like Self-Assembling Peptide Nanovesicles for Drug Delivery. <i>ACS Applied Materials & Interfaces</i> , 2014, 6, 8184-8189.	8.0	95
9	Pediatric-friendly chocolate-based dosage forms for the oral administration of both hydrophilic and lipophilic drugs fabricated with extrusion-based 3D printing. <i>European Journal of Pharmaceutical Sciences</i> , 2020, 147, 105291.	4.0	91
10	Unidirectional drug release from 3D printed mucoadhesive buccal films using FDM technology: In vitro and ex vivo evaluation. <i>European Journal of Pharmaceutics and Biopharmaceutics</i> , 2019, 144, 180-192.	4.3	90
11	Recent advances in pharmaceutical dosage forms and devices using additive manufacturing technologies. <i>Drug Discovery Today</i> , 2019, 24, 636-643.	6.4	89
12	Electrospun PVP- ϵ -indomethacin constituents for transdermal dressings and drug delivery devices. <i>International Journal of Pharmaceutics</i> , 2014, 473, 95-104.	5.2	87
13	Development of Bio-Active Patches Based on Pectin for the Treatment of Ulcers and Wounds Using 3D-Bioprinting Technology. <i>Pharmaceutics</i> , 2020, 12, 56.	4.5	84
14	Application of mesoporous silica nanoparticles as drug delivery carriers for chemotherapeutic agents. <i>Drug Discovery Today</i> , 2020, 25, 1513-1520.	6.4	83
15	<i>In vitro</i> lipid digestion models in design of drug delivery systems for enhancing oral bioavailability. <i>Expert Opinion on Drug Metabolism and Toxicology</i> , 2008, 4, 65-76.	3.3	78
16	Fabrication and finite element analysis of stereolithographic 3D printed microneedles for transdermal delivery of model dyes across human skin in vitro. <i>European Journal of Pharmaceutical Sciences</i> , 2019, 137, 104976.	4.0	78
17	Controlled release of 5-fluorouracil from microporous zeolites. <i>Nanomedicine: Nanotechnology, Biology, and Medicine</i> , 2014, 10, 197-205.	3.3	69
18	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. <i>Molecular Pharmaceutics</i> , 2019, 16, 2326-2341.	4.6	67

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19	Fabrication of an osmotic 3D printed solid dosage form for controlled release of active pharmaceutical ingredients. <i>European Journal of Pharmaceutical Sciences</i> , 2020, 143, 105176.	4.0	67
20	Clinical studies with oral lipid based formulations of poorly soluble compounds. <i>Therapeutics and Clinical Risk Management</i> , 2007, 3, 591-604.	2.0	66
21	Colloidal Structures in Media Simulating Intestinal Fed State Conditions with and Without Lipolysis Products. <i>Pharmaceutical Research</i> , 2009, 26, 361-374.	3.5	65
22	Chitosan-coated PLGA nanoparticles for the nasal delivery of ropinirole hydrochloride: In vitro and ex vivo evaluation of efficacy and safety. <i>International Journal of Pharmaceutics</i> , 2020, 589, 119776.	5.2	64
23	Electrosprayed mesoporous particles for improved aqueous solubility of a poorly water soluble anticancer agent: in vitro and ex vivo evaluation. <i>Journal of Controlled Release</i> , 2018, 278, 142-155.	9.9	62
24	Insights into Intermediate Phases of Human Intestinal Fluids Visualized by Atomic Force Microscopy and Cryo-Transmission Electron Microscopy <i>in vivo</i> . <i>Molecular Pharmaceutics</i> , 2012, 9, 237-247.	4.6	59
25	Controlled Release of 5-Fluorouracil from Alginate Beads Encapsulated in 3D Printed pH-Responsive Solid Dosage Forms. <i>AAPS PharmSciTech</i> , 2018, 19, 3362-3375.	3.3	57
26	In vitro and in silico investigations of drug delivery via zeolite BEA. <i>Journal of Materials Chemistry</i> , 2011, 21, 7789.	6.7	56
27	Biomedical applications of carbon nanotubes. <i>Annual Reports on the Progress of Chemistry Section C</i> , 2013, 109, 10.	4.4	54
28	Fabrication of Mucoadhesive Buccal Films for Local Administration of Ketoprofen and Lidocaine Hydrochloride by Combining Fused Deposition Modeling and Inkjet Printing. <i>Journal of Pharmaceutical Sciences</i> , 2020, 109, 2757-2766.	3.3	52
29	Fabrication of hollow microneedles using liquid crystal display (LCD) vat polymerization 3D printing technology for transdermal macromolecular delivery. <i>International Journal of Pharmaceutics</i> , 2021, 597, 120303.	5.2	48
30	In vitro–in vivo correlations of self-emulsifying drug delivery systems combining the dynamic lipolysis model and neuro-fuzzy networks. <i>European Journal of Pharmaceutics and Biopharmaceutics</i> , 2008, 69, 887-898.	4.3	46
31	Development and characterisation of cellulose based electrospun mats for buccal delivery of non-steroidal anti-inflammatory drug (NSAID). <i>European Journal of Pharmaceutical Sciences</i> , 2017, 102, 147-155.	4.0	44
32	Physico-mechanical and finite element analysis evaluation of 3D printable alginate-methylcellulose inks for wound healing applications. <i>Carbohydrate Polymers</i> , 2020, 247, 116666.	10.2	44
33	Chemotherapeutic Delivery from a Self-Assembling Peptide Nanofiber Hydrogel for the Management of Glioblastoma. <i>Pharmaceutical Research</i> , 2018, 35, 166.	3.5	39
34	Development of new drug delivery system based on ordered mesoporous carbons: characterisation and cytocompatibility studies. <i>Journal of Materials Chemistry B</i> , 2013, 1, 3167.	5.8	37
35	Electrospun Orodispersible Films of Isoniazid for Pediatric Tuberculosis Treatment. <i>Pharmaceutics</i> , 2020, 12, 470.	4.5	37
36	Inkjet printing of a thermolabile model drug onto FDM-printed substrates: formulation and evaluation. <i>Drug Development and Industrial Pharmacy</i> , 2020, 46, 1253-1264.	2.0	36

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37	Self-assembling peptides as vectors for local drug delivery and tissue engineering applications. <i>Advanced Drug Delivery Reviews</i> , 2021, 174, 387-405.	13.7	36
38	Mucosal drug delivery and 3D printing technologies: A focus on special patient populations. <i>Advanced Drug Delivery Reviews</i> , 2021, 176, 113858.	13.7	36
39	Self-Assembling Peptide Nanofiber Hydrogels for Controlled Ocular Delivery of Timolol Maleate. <i>ACS Biomaterials Science and Engineering</i> , 2017, 3, 3386-3394.	5.2	34
40	The Advent of a New Era in Digital Healthcare: A Role for 3D Printing Technologies in Drug Manufacturing?. <i>Pharmaceutics</i> , 2022, 14, 609.	4.5	32
41	PLGA/DPPC/trimethylchitosan spray-dried microparticles for the nasal delivery of ropinirole hydrochloride: in vitro , ex vivo and cytocompatibility assessment. <i>Materials Science and Engineering C</i> , 2016, 59, 1053-1062.	7.3	30
42	Comparison of different zeolite framework types as carriers for the oral delivery of the poorly soluble drug indomethacin. <i>International Journal of Pharmaceutics</i> , 2017, 528, 76-87.	5.2	29
43	Haptic Evaluation of 3D-printed Braille-encoded Intraoral Films. <i>European Journal of Pharmaceutical Sciences</i> , 2021, 157, 105605.	4.0	28
44	In Vitro Evaluation of Self-Nano-Emulsifying Drug Delivery Systems (SNEDDS) Containing Room Temperature Ionic Liquids (RTILs) for the Oral Delivery of Amphotericin B. <i>Pharmaceutics</i> , 2020, 12, 699.	4.5	27
45	Personalized nanomedicine: paving the way to the practical clinical utility of genomics and nanotechnology advancements. <i>Advanced Drug Delivery Reviews</i> , 2012, 64, 1359-1362.	13.7	25
46	Automated digital design for 3D-printed individualized therapies. <i>International Journal of Pharmaceutics</i> , 2021, 599, 120437.	5.2	24
47	Evaluation of mesoporous carbon aerogels as carriers of the non-steroidal anti-inflammatory drug ibuprofen. <i>International Journal of Pharmaceutics</i> , 2016, 515, 262-270.	5.2	23
48	FDM-printed pH-responsive capsules for the oral delivery of a model macromolecular dye. <i>Pharmaceutical Development and Technology</i> , 2020, 25, 517-523.	2.4	23
49	Enabling personalized cancer medicine decisions: The challenging pharmacological approach of PBPK models for nanomedicine and pharmacogenomics (Review). <i>Oncology Reports</i> , 2016, 35, 1891-1904.	2.6	22
50	Development and Characterization of a Self-Nanoemulsifying Drug Delivery System Comprised of Rice Bran Oil for Poorly Soluble Drugs. <i>AAPS PharmSciTech</i> , 2019, 20, 78.	3.3	22
51	Tackling pharmacological response heterogeneity by PBPK modeling to advance precision medicine productivity of nanotechnology and genomics therapeutics. <i>Expert Review of Precision Medicine and Drug Development</i> , 2019, 4, 139-151.	0.7	21
52	Liposome formulations of o-carborane for the boron neutron capture therapy of cancer. <i>Biophysical Chemistry</i> , 2019, 247, 25-33.	2.8	21
53	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. <i>Bioorganic and Medicinal Chemistry Letters</i> , 2013, 23, 6161-6166.	2.2	20
54	Bioactive Self-Assembling Lipid-Like Peptides as Permeation Enhancers for Oral Drug Delivery. <i>Journal of Pharmaceutical Sciences</i> , 2015, 104, 2304-2311.	3.3	20

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55	In Vitro Evaluation of 2D-Printed Edible Films for the Buccal Delivery of Diclofenac Sodium. <i>Materials</i> , 2018, 11, 864.	2.9	20
56	Development of food grade 3D printable ink based on pectin containing cannabidiol/cyclodextrin inclusion complexes. <i>Drug Development and Industrial Pharmacy</i> , 2020, 46, 1569-1577.	2.0	20
57	In Vitro Digestion of caseinate and Tween 20 Emulsions. <i>Food Biophysics</i> , 2019, 14, 60-68.	3.0	19
58	Electrospinning/electrospraying coatings for metal microneedles: A design of experiments (DOE) and quality by design (QbD) approach. <i>European Journal of Pharmaceutics and Biopharmaceutics</i> , 2020, 156, 20-39.	4.3	19
59	Ocular Co-Delivery of Timolol and Brimonidine from a Self-Assembling Peptide Hydrogel for the Treatment of Glaucoma: In Vitro and Ex Vivo Evaluation. <i>Pharmaceutics</i> , 2020, 13, 126.	3.8	19
60	Pharmacological Development of Target-Specific Delocalized Lipophilic Cation-Functionalized Carboranes for Cancer Therapy. <i>Pharmaceutical Research</i> , 2016, 33, 1945-1958.	3.5	18
61	Dissolution enhancement of the poorly soluble drug nifedipine by co-spray drying with microporous zeolite beta. <i>Journal of Drug Delivery Science and Technology</i> , 2016, 35, 91-97.	3.0	18
62	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. <i>Journal of Drug Delivery Science and Technology</i> , 2020, 56, 101524.	3.0	18
63	Structural features of colloidal species in the human fasted upper small intestine. <i>Journal of Pharmacy and Pharmacology</i> , 2015, 67, 486-492.	2.4	17
64	Ex vivo buccal drug delivery of ropinirole hydrochloride in the presence of permeation enhancers: the effect of charge. <i>Pharmaceutical Development and Technology</i> , 2017, 22, 1017-1021.	2.4	17
65	Manufacturing of hybrid drug delivery systems by utilizing the fused filament fabrication (FFF) technology. <i>Expert Opinion on Drug Delivery</i> , 2020, 17, 1063-1068.	5.0	17
66	Towards analyzing the potential of exosomes to deliver microRNA therapeutics. <i>Journal of Cellular Physiology</i> , 2021, 236, 1529-1544.	4.1	17
67	3D printing of patient-tailored SNEDDS-based suppositories of lidocaine. <i>Journal of Drug Delivery Science and Technology</i> , 2021, 61, 102292.	3.0	17
68	Oral Drug Delivery Systems Based on Ordered Mesoporous Silica Nanoparticles for Modulating the Release of Aprepitant. <i>International Journal of Molecular Sciences</i> , 2021, 22, 1896.	4.1	17
69	Synthesis of carbon nanotubes loaded hydroxyapatite: Potential for controlled drug release from bone implants. <i>Journal of Advanced Ceramics</i> , 2016, 5, 232-243.	17.4	16
70	In vitro and ex vivo assessment of microporous Faujasite zeolite (NaX-FAU) as a carrier for the oral delivery of danazol. <i>Journal of Drug Delivery Science and Technology</i> , 2019, 51, 177-184.	3.0	16
71	Physicochemical Properties of Liposomes Incorporating Hydrochlorothiazide and Chlorothiazide. <i>Journal of Drug Targeting</i> , 2001, 9, 61-74.	4.4	15
72	Hydrogels in mucosal delivery. <i>Therapeutic Delivery</i> , 2012, 3, 535-555.	2.2	15

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73	Fibrous polymeric buccal film formulation, engineering and bio-interface assessment. <i>European Polymer Journal</i> , 2017, 97, 147-157.	5.4	15
74	Development and Characterization of Inkjet Printed Edible Films for Buccal Delivery of B-Complex Vitamins. <i>Pharmaceuticals</i> , 2020, 13, 203.	3.8	15
75	Development of Water-Soluble Electrospun Fibers for the Oral Delivery of Cannabinoids. <i>AAPS PharmSciTech</i> , 2021, 22, 23.	3.3	15
76	Cereal-Based 3D Printed Dosage Forms for Drug Administration During Breakfast in Pediatric Patients within a Hospital Setting. <i>Journal of Pharmaceutical Sciences</i> , 2022, 111, 2562-2570.	3.3	14
77	Iontophoretic Enhancement of Timolol across Human Dermatomed Skin <i>In Vitro</i> . <i>Journal of Drug Targeting</i> , 2004, 12, 19-24.	4.4	13
78	Patent landscape of pediatric-friendly oral dosage forms and administration devices. <i>Expert Opinion on Therapeutic Patents</i> , 2021, 31, 663-685.	5.0	13
79	Transdermal delivery of insulin across human skin <i>in vitro</i> with 3D printed hollow microneedles. <i>Journal of Drug Delivery Science and Technology</i> , 2022, 67, 102891.	3.0	13
80	Silk sericin/PLGA electrospun scaffolds with anti-inflammatory drug-eluting properties for periodontal tissue engineering. <i>Materials Science and Engineering C</i> , 2022, 133, 112723.	7.3	13
81	Stabilisation of SWNTs by alkyl-sulfate chitosan derivatives of different molecular weight: towards the preparation of hybrids with anticoagulant properties. <i>Nanoscale</i> , 2011, 3, 1218.	5.6	12
82	Polymer-Lipid Microparticles for Pulmonary Delivery. <i>Langmuir</i> , 2018, 34, 3438-3448.	3.5	12
83	<i>In Vitro</i> and <i>Ex Vivo</i> Evaluation of Tablets Containing Piroxicam-Cyclodextrin Complexes for Buccal Delivery. <i>Pharmaceutics</i> , 2019, 11, 398.	4.5	12
84	Self-Nanoemulsifying Drug Delivery Systems (SNEDDS) Containing Rice Bran Oil for Enhanced Fenofibrate Oral Delivery: <i>In Vitro</i> Digestion, <i>Ex Vivo</i> Permeability, and <i>In Vivo</i> Bioavailability Studies. <i>AAPS PharmSciTech</i> , 2020, 21, 208.	3.3	12
85	3D-Printed Scaffolds from Alginate/Methyl Cellulose/Trimethyl Chitosan/Silicate Glasses for Bone Tissue Engineering. <i>Applied Sciences (Switzerland)</i> , 2021, 11, 8677.	2.5	12
86	Semi-solid extrusion 3D printing of starch-based soft dosage forms for the treatment of paediatric latent tuberculosis infection. <i>Journal of Pharmacy and Pharmacology</i> , 2022, 74, 1498-1506.	2.4	12
87	<i>In Situ</i> Gelling Electrospun Ocular Films Sustain the Intraocular Pressure-Lowering Effect of Timolol Maleate: <i>In Vitro</i> , <i>Ex Vivo</i> , and Pharmacodynamic Assessment. <i>Molecular Pharmaceutics</i> , 2022, 19, 274-286.	4.6	12
88	Preparation and Characterization of Bioadhesive Microparticles Comprised of Low Degree of Quaternization Trimethylated Chitosan for Nasal Administration: Effect of Concentration and Molecular Weight. <i>Langmuir</i> , 2014, 30, 12337-12344.	3.5	11
89	Preparation and characterization of multiactive electrospun fibers: Polylactone fibers loaded with hydroxyapatite and selected NSAIDs. <i>Journal of Biomedical Materials Research - Part A</i> , 2014, 102, 2583-2589.	4.0	11
90	High-Drug-Loading Amorphous Solid Dispersions via <i>In Situ</i> Thermal Cross-Linking: Unraveling the Mechanisms of Stabilization. <i>Molecular Pharmaceutics</i> , 2021, 18, 4393-4414.	4.6	10

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91	Unravelling the ultrastructure of ascending colon fluids from patients with ulcerative colitis by cryogenic transmission electron microscopy. <i>Journal of Pharmacy and Pharmacology</i> , 2013, 65, 1482-1487.	2.4	9
92	Partial Least Square Model (PLS) as a Tool to Predict the Diffusion of Steroids Across Artificial Membranes. <i>Molecules</i> , 2020, 25, 1387.	3.8	9
93	Design and fabrication of drug-eluting polymeric thin films for applications in ophthalmology. <i>IET Nanobiotechnology</i> , 2018, 12, 1074-1079.	3.8	7
94	Physicochemical properties of human breast milk during the second year of lactation. <i>Current Research in Food Science</i> , 2021, 4, 565-576.	5.8	7
95	NGI-WY-Amide: A Bioinspired Ultrashort Self-Assembled Peptide Gelator for Local Drug Delivery Applications. <i>Pharmaceutics</i> , 2022, 14, 133.	4.5	7
96	Development and validation of LC-MS/MS method for the determination of UV-filters across human skin in vitro. <i>Journal of Chromatography B: Analytical Technologies in the Biomedical and Life Sciences</i> , 2021, 1167, 122561.	2.3	6
97	Experimental and molecular dynamics simulation studies of an anti-hyperlipidemic drug release from microporous zeolites differing in Si/Al content. <i>Microporous and Mesoporous Materials</i> , 2020, 305, 110343.	4.4	6
98	The preparation of magnetically guided lipid based nanoemulsions using self-emulsifying technology. <i>Nanotechnology</i> , 2010, 21, 055104.	2.6	5
99	Mapping the intermediate digestion phases of human healthy intestinal contents from distal ileum and caecum at fasted and fed state conditions. <i>Journal of Pharmacy and Pharmacology</i> , 2017, 69, 265-273.	2.4	5
100	Quality by Design Micro-Engineering Optimisation of NSAID-Loaded Electrospun Fibrous Patches. <i>Pharmaceutics</i> , 2020, 12, 2.	4.5	5
101	Design, characterisation and drug release study of polymeric, drug-eluting single layer thin films on the surface of intraocular lenses. <i>IET Nanobiotechnology</i> , 2020, 14, 501-507.	3.8	5
102	Stability and aggregation studies of non-sonicated arsonolipid-containing vesicles. <i>Cellular and Molecular Biology Letters</i> , 2005, 10, 173-83.	7.0	5
103	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. <i>Journal of Chromatography B: Analytical Technologies in the Biomedical and Life Sciences</i> , 2022, 1198, 123246.	2.3	5
104	Analytical quality-by-design optimization of UHPLC method for the analysis of octreotide release from a peptide-based hydrogel in-vitro. <i>Journal of Pharmaceutical and Biomedical Analysis</i> , 2022, 214, 114699.	2.8	5
105	Electrospun Nanofiber Films Suppress Inflammation <i>In Vitro</i> and Eradicate Endodontic Bacterial Infection in an <i>E. faecalis</i> -Infected <i>Ex Vivo</i> Human Tooth Culture Model. <i>ACS Biomaterials Science and Engineering</i> , 2022, 8, 2096-2110.	5.2	4
106	Evaluation of sesquiterpenes as permeation enhancers for a model macromolecule across human skin in vitro. <i>Journal of Drug Delivery Science and Technology</i> , 2017, 41, 384-389.	3.0	3
107	Solid Dosage Forms of Dexamethasone Sodium Phosphate Intended for Pediatric Use: Formulation and Stability Studies. <i>Pharmaceutics</i> , 2020, 12, 354.	4.5	2
108	Engineered mucoadhesive microparticles of formoterol/budesonide for pulmonary administration. <i>European Journal of Pharmaceutical Sciences</i> , 2021, 165, 105955.	4.0	2

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109	Amoxicillin chewable tablets intended for pediatric use: formulation development, stability evaluation and taste assessment. <i>Pharmaceutical Development and Technology</i> , 2021, 26, 978-988.	2.4	1
110	Stability and rheology of plant-derived hydrocolloid mucin mixtures. <i>Journal of Texture Studies</i> , 2022, , .	2.5	1
111	ADVANCING THE PRACTICAL CLINICAL UTILITY IN PERSONALIZED MEDICINE: CAPABILITIES AND LESSONS LEARNED FOR PHARMACOLOGY AND PHARMACEUTICS. , 2016, , 297-323.		0
112	Preface : Additive Manufacturing in Pharmaceutical Product Design. <i>Advanced Drug Delivery Reviews</i> , 2021, 178, 113991.	13.7	0