

Simon Gaisford

List of Publications by Citations

Source: <https://exaly.com/author-pdf/7660052/simon-gaisford-publications-by-citations.pdf>

Version: 2024-04-27

This document has been generated based on the publications and citations recorded by exaly.com. For the latest version of this publication list, visit the link given above.

The third column is the impact factor (IF) of the journal, and the fourth column is the number of citations of the article.

199
papers

8,893
citations

48
h-index

89
g-index

210
ext. papers

10,928
ext. citations

6.1
avg, IF

6.91
L-index

#	Paper	IF	Citations
199	Effect of geometry on drug release from 3D printed tablets. <i>International Journal of Pharmaceutics</i> , 2015 , 494, 657-663	6.5	381
198	Fused-filament 3D printing (3DP) for fabrication of tablets. <i>International Journal of Pharmaceutics</i> , 2014 , 476, 88-92	6.5	372
197	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
196	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
195	Stereolithographic (SLA) 3D printing of oral modified-release dosage forms. <i>International Journal of Pharmaceutics</i> , 2016 , 503, 207-12	6.5	276
194	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
193	Selective laser sintering (SLS) 3D printing of medicines. <i>International Journal of Pharmaceutics</i> , 2017 , 529, 285-293	6.5	248
192	3D Printing Pharmaceuticals: Drug Development to Frontline Care. <i>Trends in Pharmacological Sciences</i> , 2018 , 39, 440-451	13.2	232
191	Fabrication of controlled-release budesonide tablets via desktop (FDM) 3D printing. <i>International Journal of Pharmaceutics</i> , 2015 , 496, 414-20	6.5	217
190	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
189	Low temperature fused deposition modeling (FDM) 3D printing of thermolabile drugs. <i>International Journal of Pharmaceutics</i> , 2018 , 545, 144-152	6.5	169
188	Personalised dosing: Printing a dose of one's own medicine. <i>International Journal of Pharmaceutics</i> , 2015 , 494, 568-577	6.5	161
187	Patient-specific 3D scanned and 3D printed antimicrobial polycaprolactone wound dressings. <i>International Journal of Pharmaceutics</i> , 2017 , 527, 161-170	6.5	158
186	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
185	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
184	Fabrication of drug-loaded hydrogels with stereolithographic 3D printing. <i>International Journal of Pharmaceutics</i> , 2017 , 532, 313-317	6.5	143
183	Preparation of personalized-dose salbutamol sulphate oral films with thermal ink-jet printing. <i>Pharmaceutical Research</i> , 2011 , 28, 2386-92	4.5	141

182	Fabricating 3D printed orally disintegrating printlets using selective laser sintering. <i>International Journal of Pharmaceutics</i> , 2018 , 541, 101-107	6.5	139
181	3D printed medicines: A new branch of digital healthcare. <i>International Journal of Pharmaceutics</i> , 2018 , 548, 586-596	6.5	136
180	3D printing of drug-loaded gyroid lattices using selective laser sintering. <i>International Journal of Pharmaceutics</i> , 2018 , 547, 44-52	6.5	131
179	Reshaping drug development using 3D printing. <i>Drug Discovery Today</i> , 2018 , 23, 1547-1555	8.8	131
178	Patient acceptability of 3D printed medicines. <i>International Journal of Pharmaceutics</i> , 2017 , 530, 71-78	6.5	128
177	3D Printing of a Multi-Layered Polypill Containing Six Drugs Using a Novel Stereolithographic Method. <i>Pharmaceutics</i> , 2019 , 11,	6.4	127
176	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
175	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
174	3D printing: Principles and pharmaceutical applications of selective laser sintering. <i>International Journal of Pharmaceutics</i> , 2020 , 586, 119594	6.5	99
173	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
172	Nanoparticle-membrane interactions. <i>Journal of Experimental Nanoscience</i> , 2018 , 13, 62-81	1.9	94
171	3D Printed Pellets (Miniprintlets): A Novel, Multi-Drug, Controlled Release Platform Technology. <i>Pharmaceutics</i> , 2019 , 11,	6.4	93
170	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
169	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
168	Binding interactions of α -amylase with starch granules: The influence of supramolecular structure and surface area. <i>Carbohydrate Polymers</i> , 2011 , 86, 1038-1047	10.3	85
167	Oral peptide and protein delivery: intestinal obstacles and commercial prospects. <i>Expert Opinion on Drug Delivery</i> , 2014 , 11, 1323-35	8	81
166	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
165	Structural and enzyme kinetic studies of retrograded starch: Inhibition of α -amylase and consequences for intestinal digestion of starch. <i>Carbohydrate Polymers</i> , 2017 , 164, 154-161	10.3	75

164	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
163	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
162	A study of starch gelatinisation behaviour in hydrothermally-processed plant food tissues and implications for in vitro digestibility. <i>Food and Function</i> , 2015 , 6, 3634-41	6.1	66
161	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
160	Targeted delivery of probiotics to enhance gastrointestinal stability and intestinal colonisation. <i>International Journal of Pharmaceutics</i> , 2017 , 530, 224-229	6.5	60
159	Ink-jet printing versus solvent casting to prepare oral films: Effect on mechanical properties and physical stability. <i>International Journal of Pharmaceutics</i> , 2015 , 494, 611-618	6.5	59
158	Selective Laser Sintering 3D Printing of Orally Disintegrating Printlets Containing Ondansetron. <i>Pharmaceutics</i> , 2020 , 12,	6.4	56
157	Personalisation of warfarin therapy using thermal ink-jet printing. <i>European Journal of Pharmaceutical Sciences</i> , 2018 , 117, 80-87	5.1	56
156	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
155	3D Printed Tablets (Printlets) with Braille and Moon Patterns for Visually Impaired Patients. <i>Pharmaceutics</i> , 2020 , 12,	6.4	55
154	Diode-Array UV Spectrometric Evidence for Cooperative Interactions in Binary Mixtures of Pluronic F77, F87, and F127. <i>Langmuir</i> , 1997 , 13, 2606-2607	4	51
153	Orodispersible films: Towards drug delivery in special populations. <i>International Journal of Pharmaceutics</i> , 2017 , 523, 327-335	6.5	50
152	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
151	An in vitro test of the efficacy of silver-containing wound dressings against <i>Staphylococcus aureus</i> and <i>Pseudomonas aeruginosa</i> in simulated wound fluid. <i>International Journal of Pharmaceutics</i> , 2014 , 462, 123-8	6.5	48
150	Effect of surface energy on powder compactibility. <i>Pharmaceutical Research</i> , 2008 , 25, 2750-9	4.5	47
149	Amorphous formulations of indomethacin and griseofulvin prepared by electrospinning. <i>Molecular Pharmaceutics</i> , 2014 , 11, 4327-38	5.6	46
148	3D printed opioid medicines with alcohol-resistant and abuse-deterrent properties. <i>International Journal of Pharmaceutics</i> , 2020 , 579, 119169	6.5	45
147	Thermal ink-jet spray freeze-drying for preparation of excipient-free salbutamol sulphate for inhalation. <i>European Journal of Pharmaceutics and Biopharmaceutics</i> , 2012 , 80, 149-55	5.7	45

146	Printing T and T oral drug combinations as a novel strategy for hypothyroidism. <i>International Journal of Pharmaceutics</i> , 2018 , 549, 363-369	6.5	44
145	A four-strain probiotic exerts positive immunomodulatory effects by enhancing colonic butyrate production in vitro. <i>International Journal of Pharmaceutics</i> , 2019 , 555, 1-10	6.5	44
144	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
143	Non-destructive dose verification of two drugs within 3D printed polyprintlets. <i>International Journal of Pharmaceutics</i> , 2020 , 577, 119066	6.5	39
142	In vitro characterisation of terbutaline sulphate particles prepared by thermal ink-jet spray freeze drying. <i>International Journal of Pharmaceutics</i> , 2013 , 447, 165-70	6.5	39
141	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
140	Thermodynamic and kinetic analysis of isothermal microcalorimetric data: applications to consecutive reaction schemes. <i>Thermochimica Acta</i> , 1999 , 328, 39-45	2.9	36
139	Advanced machine-learning techniques in drug discovery. <i>Drug Discovery Today</i> , 2021 , 26, 769-777	8.8	36
138	Application and use of isothermal calorimetry in pharmaceutical development. <i>International Journal of Pharmaceutics</i> , 2011 , 417, 83-93	6.5	35
137	Approaches to determine the enthalpy of crystallisation, and amorphous content, of lactose from isothermal calorimetric data. <i>International Journal of Pharmaceutics</i> , 2004 , 284, 83-94	6.5	35
136	I Spy with My Little Eye: A Paediatric Visual Preferences Survey of 3D Printed Tablets. <i>Pharmaceutics</i> , 2020 , 12,	6.4	35
135	Harnessing artificial intelligence for the next generation of 3D printed medicines. <i>Advanced Drug Delivery Reviews</i> , 2021 , 175, 113805	18.5	35
134	Colonic bacterial metabolism of corticosteroids. <i>International Journal of Pharmaceutics</i> , 2013 , 457, 268-74	4.5	34
133	An in vitro method for the quantitative determination of the antimicrobial efficacy of silver-containing wound dressings. <i>International Journal of Pharmaceutics</i> , 2009 , 366, 111-6	6.5	34
132	Pharmaceutical microcalorimetry: applications to long-term stability studies. <i>International Journal of Pharmaceutics</i> , 1999 , 179, 159-65	6.5	34
131	3D printing tablets: Predicting printability and drug dissolution from rheological data. <i>International Journal of Pharmaceutics</i> , 2020 , 590, 119868	6.5	34
130	Comparative survival of commercial probiotic formulations: tests in biorelevant gastric fluids and real-time measurements using microcalorimetry. <i>Beneficial Microbes</i> , 2015 , 6, 141-51	4.9	33
129	The use of dynamic mechanical analysis (DMA) to evaluate plasticization of acrylic polymer films under simulated gastrointestinal conditions. <i>European Journal of Pharmaceutics and Biopharmaceutics</i> , 2010 , 76, 493-7	5.7	33

128	Potential applications of microcalorimetry for the study of physical processes in pharmaceuticals. <i>Thermochimica Acta</i> , 2001 , 380, 185-198	2.9	33
127	Anti-biofilm multi drug-loaded 3D printed hearing aids. <i>Materials Science and Engineering C</i> , 2021 , 119, 111606	8.3	33
126	Expanding the Solid-State Landscape of L-Phenylalanine: Discovery of Polymorphism and New Hydrate Phases, with Rationalization of Hydration/Dehydration Processes. <i>Journal of Physical Chemistry C</i> , 2013 , 117, 12136-12145	3.8	32
125	The imidazole catalysed hydrolysis of triacetin: an inter- and intra-laboratory development of a test reaction for isothermal heat conduction microcalorimeters used for determination of both thermodynamic and kinetic parameters. <i>Thermochimica Acta</i> , 2001 , 380, 13-17	2.9	32
124	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
123	Rapid preparation of pharmaceutical co-crystals with thermal ink-jet printing. <i>CrystEngComm</i> , 2013 , 15, 1031-1035	3.3	31
122	Characterisation of paracetamol form III with rapid-heating DSC. <i>Journal of Pharmaceutical and Biomedical Analysis</i> , 2010 , 53, 366-70	3.5	29
121	Stabilisation of metastable polymorphs: the case of paracetamol form III. <i>Chemical Communications</i> , 2016 , 52, 12028-12031	5.8	28
120	Disrupting 3D printing of medicines with machine learning. <i>Trends in Pharmacological Sciences</i> , 2021 , 42, 745-757	13.2	28
119	An in vitro test of the efficacy of an anti-biofilm wound dressing. <i>International Journal of Pharmaceutics</i> , 2014 , 474, 177-81	6.5	27
118	A 4-strain probiotic supplement influences gut microbiota composition and gut wall function in patients with ulcerative colitis. <i>International Journal of Pharmaceutics</i> , 2020 , 587, 119648	6.5	27
117	3D Printing of Tunable Zero-Order Release Printlets. <i>Polymers</i> , 2020 , 12,	4.5	27
116	Characterization of Carbamazepine-Nicotinamide Cocrystal Polymorphs with Rapid Heating DSC and XRPD. <i>Crystal Growth and Design</i> , 2011 , 11, 1177-1181	3.5	26
115	Temperature induced aggregation in aqueous solution of a series of PEOBPOBEO copolymers. <i>International Journal of Pharmaceutics</i> , 1998 , 174, 39-46	6.5	26
114	Are Oxygen and Sulfur Atoms Structurally Equivalent in Organic Crystals?. <i>Crystal Growth and Design</i> , 2017 , 17, 827-833	3.5	25
113	Isothermal microcalorimetry for quantifying amorphous content in processed pharmaceuticals. <i>Advanced Drug Delivery Reviews</i> , 2012 , 64, 431-9	18.5	25
112	Additive Manufacturable Materials for Electrochemical Biosensor Electrodes. <i>Advanced Functional Materials</i> , 2021 , 31, 2006407	15.6	25
111	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

110	Key acceptability attributes of orodispersible films. <i>European Journal of Pharmaceutics and Biopharmaceutics</i> , 2018 , 125, 131-140	5.7	23
109	Monitoring crystallisation of drugs from fast-dissolving oral films with isothermal calorimetry. <i>International Journal of Pharmaceutics</i> , 2009 , 380, 105-11	6.5	23
108	Olanzapine Form IV: Discovery of a New Polymorphic Form Enabled by Computed Crystal Energy Landscapes. <i>Crystal Growth and Design</i> , 2019 , 19, 2751-2757	3.5	22
107	Physical characterisation and long-term stability studies on quaternary ammonium palmitoyl glycol chitosan (GCPQ)--a new drug delivery polymer. <i>Journal of Pharmaceutical Sciences</i> , 2014 , 103, 2296-306	3.9	22
106	Simultaneous Differential Scanning Calorimetry-Synchrotron X-ray Powder Diffraction: A Powerful Technique for Physical Form Characterization in Pharmaceutical Materials. <i>Analytical Chemistry</i> , 2016 , 88, 10111-10117	7.8	21
105	Amine bridges grafted mesoporous silica, as a prolonged/controlled drug release system for the enhanced therapeutic effect of short life drugs. <i>Materials Science and Engineering C</i> , 2017 , 72, 34-41	8.3	21
104	The use of isothermal titration calorimetry to assess the solubility enhancement of simvastatin by a range of surfactants. <i>Thermochimica Acta</i> , 2007 , 456, 106-113	2.9	21
103	Following mechanical activation of salbutamol sulphate during ball-milling with isothermal calorimetry. <i>International Journal of Pharmaceutics</i> , 2010 , 393, 74-8	6.5	19
102	Diode-array UV spectrometric evidence for a concentration dependent phase transition in dilute aqueous solutions of pluronic F87 (poloxamer 237). <i>Journal of the Chemical Society Chemical Communications</i> , 1995 , 1843		19
101	Harnessing machine learning for development of microbiome therapeutics. <i>Gut Microbes</i> , 2021 , 13, 1-208.8		19
100	Connected healthcare: Improving patient care using digital health technologies. <i>Advanced Drug Delivery Reviews</i> , 2021 , 178, 113958	18.5	19
99	In vitro inhibition of <i>Clostridium difficile</i> by commercial probiotics: A microcalorimetric study. <i>International Journal of Pharmaceutics</i> , 2017 , 517, 96-103	6.5	18
98	Calorimetric determination of amorphous content in lactose: a note on the preparation of calibration curves. <i>International Journal of Pharmaceutics</i> , 2005 , 300, 13-21	6.5	18
97	Pharmaceutical physical form characterisation with fast (>200 °C min ⁻¹) DSC heating rates. <i>Journal of Thermal Analysis and Calorimetry</i> , 2011 , 106, 221-226	4.1	17
96	Stability assessment of pharmaceuticals by isothermal calorimetry: two component systems. <i>International Journal of Pharmaceutics</i> , 2005 , 292, 127-35	6.5	17
95	Application of solution calorimetry in pharmaceutical and biopharmaceutical research. <i>Current Pharmaceutical Biotechnology</i> , 2005 , 6, 215-22	2.6	17
94	Formation of Highly Metastable [Glycine by Confinement in Inkjet Printed Droplets. <i>Crystal Growth and Design</i> , 2017 , 17, 1245-1250	3.5	15
93	Controllable degradation kinetics of POSS nanoparticle-integrated poly(ε-caprolactone urea)urethane elastomers for tissue engineering applications. <i>Scientific Reports</i> , 2015 , 5, 15040	4.9	15

92	Stability assessment of pharmaceuticals and biopharmaceuticals by isothermal calorimetry. <i>Current Pharmaceutical Biotechnology</i> , 2005 , 6, 181-91	2.6	15
91	Binder Jet Printing in Pharmaceutical Manufacturing. <i>AAPS Advances in the Pharmaceutical Sciences Series</i> , 2018 , 41-54	0.5	15
90	The potential of Streptococcus salivarius oral films in the management of dental caries: An inkjet printing approach. <i>International Journal of Pharmaceutics</i> , 2020 , 591, 119962	6.5	15
89	Optical biosensors - Illuminating the path to personalized drug dosing. <i>Biosensors and Bioelectronics</i> , 2021 , 188, 113331	11.8	15
88	Phase behaviour and applications of a binary liquid mixture of methanol and a thermotropic liquid crystal. <i>Soft Matter</i> , 2018 , 14, 4615-4620	3.6	14
87	Drug solubilisation in lipid nanoparticles containing high melting point triglycerides. <i>European Journal of Pharmaceutics and Biopharmaceutics</i> , 2013 , 85, 365-71	5.7	14
86	Investigation into the effect of varying l-leucine concentration on the product characteristics of spray-dried liposome powders. <i>Journal of Pharmacy and Pharmacology</i> , 2012 , 64, 1412-24	4.8	14
85	Modelling of molecular phase transitions in pharmaceutical inhalation compounds: an in silico approach. <i>European Journal of Pharmaceutics and Biopharmaceutics</i> , 2011 , 78, 83-9	5.7	14
84	A comparison of chemical reference materials for solution calorimeters. <i>International Journal of Pharmaceutics</i> , 2005 , 299, 73-83	6.5	14
83	The History, Developments and Opportunities of Stereolithography. <i>AAPS Advances in the Pharmaceutical Sciences Series</i> , 2018 , 55-79	0.5	14
82	Understanding the Solid-State Hydration Behavior of a Common Amino Acid: Identification, Structural Characterization, and Hydration/Dehydration Processes of New Hydrate Phases of l-Lysine. <i>Journal of Physical Chemistry C</i> , 2016 , 120, 9385-9392	3.8	13
81	Solution calorimetry to monitor swelling and dissolution of polymers and polymer blends. <i>Thermochimica Acta</i> , 2006 , 450, 56-60	2.9	13
80	The Role of Semi-Solid Extrusion Printing in Clinical Practice. <i>AAPS Advances in the Pharmaceutical Sciences Series</i> , 2018 , 133-151	0.5	13
79	Electrochemical biosensors: a nexus for precision medicine. <i>Drug Discovery Today</i> , 2021 , 26, 69-79	8.8	13
78	Isothermal calorimetry: a predictive tool to model drug-propellant interactions in pressurized metered dose systems. <i>International Journal of Pharmaceutics</i> , 2014 , 461, 301-9	6.5	12
77	Performance validation of step-isothermal calorimeters. <i>Journal of Thermal Analysis and Calorimetry</i> , 2006 , 83, 331-334	4.1	12
76	Thermodynamic and kinetic parameters from isothermal heat conduction microcalorimetry. <i>Pure and Applied Chemistry</i> , 1998 , 70, 633-638	2.1	12
75	3D Printing Technologies, Implementation and Regulation: An Overview. <i>AAPS Advances in the Pharmaceutical Sciences Series</i> , 2018 , 21-40	0.5	12

74	Powder Bed Fusion: The Working Process, Current Applications and Opportunities. <i>AAPS Advances in the Pharmaceutical Sciences Series</i> , 2018 , 81-105	0.5	12
73	Machine Learning Uncovers Adverse Drug Effects on Intestinal Bacteria. <i>Pharmaceutics</i> , 2021 , 13,	6.4	12
72	A New Method for Producing Pharmaceutical Co-crystals: Laser Irradiation of Powder Blends. <i>Crystal Growth and Design</i> , 2016 , 16, 3307-3312	3.5	12
71	2012 ,		12
70	Application of chemometric analysis to complexity in isothermal calorimetric data. <i>Journal of Physical Chemistry B</i> , 2007 , 111, 8145-9	3.4	11
69	Smartphone-enabled 3D printing of medicines. <i>International Journal of Pharmaceutics</i> , 2021 , 609, 121196.	6.5	11
68	Predicting drug-microbiome interactions with machine learning. <i>Biotechnology Advances</i> , 2021 , 107797	17.8	11
67	Development of a flow system for studying biofilm formation on medical devices with microcalorimetry. <i>Methods</i> , 2015 , 76, 35-40	4.6	10
66	Polymorphic Phase Transitions in Carbamazepine and 10,11-Dihydrocarbamazepine. <i>Chemistry - A European Journal</i> , 2018 , 24, 13573-13581	4.8	10
65	Microcalorimetric evaluation of a multi-strain probiotic: Interspecies inhibition between probiotic strains. <i>Journal of Functional Foods</i> , 2017 , 36, 357-361	5.1	10
64	Characterisation of ilomastat for prolonged ocular drug release. <i>AAPS PharmSciTech</i> , 2012 , 13, 1063-72	3.9	10
63	LED-array photocalorimetry: instrument design and application to photostability of nifedipine. <i>Journal of Pharmaceutical and Biomedical Analysis</i> , 2008 , 48, 1316-20	3.5	10
62	Nanoencapsulation for Probiotic Delivery. <i>ACS Nano</i> , 2021 ,	16.7	10
61	Assessing inhibitory activity of probiotic culture supernatants against <i>Pseudomonas aeruginosa</i> : a comparative methodology between agar diffusion, broth culture and microcalorimetry. <i>World Journal of Microbiology and Biotechnology</i> , 2019 , 35, 49	4.4	9
60	Quantifying crystallisation rates of amorphous pharmaceuticals with dynamic mechanical analysis (DMA). <i>International Journal of Pharmaceutics</i> , 2012 , 423, 335-40	6.5	9
59	Quantifying the rates of relaxation of binary mixtures of amorphous pharmaceuticals with isothermal calorimetry. <i>International Journal of Pharmaceutics</i> , 2010 , 399, 12-8	6.5	9
58	Clinical translation of advanced colonic drug delivery technologies. <i>Advanced Drug Delivery Reviews</i> , 2021 , 181, 114076	18.5	8
57	The Shape of Things to Come: Emerging Applications of 3D Printing in Healthcare. <i>AAPS Advances in the Pharmaceutical Sciences Series</i> , 2018 , 1-19	0.5	8

56	Fused Deposition Modelling: Advances in Engineering and Medicine. <i>AAPS Advances in the Pharmaceutical Sciences Series</i> , 2018 , 107-132	0.5	8
55	Sustained antimicrobial activity and reduced toxicity of oxidative biocides through biodegradable microparticles. <i>Acta Biomaterialia</i> , 2017 , 64, 301-312	10.8	7
54	Thermal Behavior of Benzoic Acid/Isonicotinamide Binary Cocrystals. <i>Crystal Growth and Design</i> , 2015 , 15, 3249-3256	3.5	7
53	Calorimetric determination of rate constants and enthalpy changes for zero-order reactions. <i>Journal of Physical Chemistry B</i> , 2012 , 116, 6356-60	3.4	7
52	A New Dimension: 4D Printing Opportunities in Pharmaceuticals. <i>AAPS Advances in the Pharmaceutical Sciences Series</i> , 2018 , 153-162	0.5	7
51	Use of a water-based probiotic to treat common gut pathogens. <i>International Journal of Pharmaceutics</i> , 2019 , 556, 136-141	6.5	7
50	Influence of probiotic bacteria on gut microbiota composition and gut wall function in an model in patients with Parkinson's disease.. <i>International Journal of Pharmaceutics: X</i> , 2021 , 3, 100087	3.2	7
49	Quantitative analysis of solid-state processes studied with isothermal microcalorimetry. <i>Journal of Physical Chemistry B</i> , 2010 , 114, 13173-8	3.4	6
48	The role of solution calorimetry in investigating controlled-release processes from polymeric drug delivery systems. <i>European Journal of Pharmaceutics and Biopharmaceutics</i> , 2008 , 68, 795-801	5.7	6
47	The Development of Quasi-isothermal Calorimetry for the Measurement of Drug-Polymer Miscibility and Crystallization Kinetics: Olanzapine-Loaded PLGA Microparticles. <i>Molecular Pharmaceutics</i> , 2018 , 15, 3332-3342	5.6	6
46	3D Printed Punctal Plugs for Controlled Ocular Drug Delivery. <i>Pharmaceutics</i> , 2021 , 13,	6.4	6
45	3D printed pharmaceutical products 2017 , 155-166		5
44	Determination of physical and chemical stability in pressurised metered dose inhalers: potential new techniques. <i>Expert Opinion on Drug Delivery</i> , 2015 , 12, 1661-75	8	5
43	Observation with microcalorimetry: Behaviour of <i>P. aeruginosa</i> in mixed cultures with <i>S. aureus</i> and <i>E. coli</i> . <i>Thermochimica Acta</i> , 2018 , 663, 93-98	2.9	5
42	Development of an isothermal heat-conduction photocalorimeter. <i>Review of Scientific Instruments</i> , 2007 , 78, 025105	1.7	5
41	A customizable 3D printed device for enzymatic removal of drugs in water. <i>Water Research</i> , 2022 , 208, 117861	12.5	5
40	Metastable crystalline phase formation in deep eutectic systems revealed by simultaneous synchrotron XRD and DSC. <i>Chemical Communications</i> , 2020 , 56, 10726-10729	5.8	5
39	Crystallisation in printed droplets: understanding crystallisation of D-mannitol polymorphs. <i>CrystEngComm</i> , 2019 , 21, 2212-2219	3.3	4

38	Solution calorimetry as a tool to study the neutralising capacity of magnesium trisilicate mixture BP and its components. <i>Thermochimica Acta</i> , 2004 , 417, 217-221	2.9	4
37	Advancing pharmacy and healthcare with virtual digital technologies.. <i>Advanced Drug Delivery Reviews</i> , 2022 , 182, 114098	18.5	4
36	A Simultaneous Differential Scanning Calorimetry-X-ray Diffraction Study of Olanzapine Crystallization from Amorphous Solid Dispersions. <i>Molecular Pharmaceutics</i> , 2020 , 17, 4364-4374	5.6	4
35	Structure determination, thermal stability and dissolution rate of Ñndomethacin. <i>International Journal of Pharmaceutics</i> , 2021 , 608, 121067	6.5	4
34	A thermal ink-jet printing approach for evaluating susceptibility of bacteria to antibiotics. <i>Journal of Microbiological Methods</i> , 2019 , 164, 105660	2.8	3
33	Laser irradiation to produce amorphous pharmaceuticals. <i>International Journal of Pharmaceutics</i> , 2016 , 514, 282-289	6.5	3
32	Use of heat of adsorption to quantify amorphous content in milled pharmaceutical powders. <i>International Journal of Pharmaceutics</i> , 2014 , 459, 19-22	6.5	3
31	Isothermal micro-calorimetry: a tool to predict seed longevity?. <i>Seed Science Research</i> , 2006 , 16, 89-96	1.3	3
30	A simultaneous X-ray diffractionñifferential scanning calorimetry study into the phase transitions of mefenamic acid. <i>Journal of Applied Crystallography</i> , 2019 , 52, 1264-1270	3.8	3
29	Characterisation of rectal amoxicillin (RAMOX) for the treatment of pneumonia in children. <i>Drug Delivery and Translational Research</i> , 2021 , 11, 944-955	6.2	3
28	Isothermal microcalorimetry as a tool to study solidñvapour interactions: design and testing of a novel hydration apparatus. <i>Thermochimica Acta</i> , 2003 , 399, 91-98	2.9	2
27	Machine Learning and Machine Vision Accelerate 3D Printed Orodispersible Film Development.. <i>Pharmaceutics</i> , 2021 , 13,	6.4	2
26	Machine learning to empower electrohydrodynamic processing.. <i>Materials Science and Engineering C</i> , 2022 , 132, 112553	8.3	2
25	Evaluation of Analytical Instrumentation. Part XXV: Differential Scanning Calorimetry. <i>Analytical Methods</i> , 2015 , 7, 1240-1248	3.2	1
24	Ionisation Constants 2012 , 36-51		1
23	Salt Selection 2012 , 98-126		1
22	Physical Form I ÑCrystalline Materials 2012 , 127-155		1
21	Active Machine Learning for Formulation of Precision Probiotics.. <i>International Journal of Pharmaceutics</i> , 2022 , 616, 121568	6.5	1

20	Volumetric 3D printing for rapid production of medicines. <i>Additive Manufacturing</i> , 2022 , 52, 102673	6.1	1
19	Effect of Polyethylene Glycol Treatment on Acetic Acid Emissions from Wood. <i>Forests</i> , 2021 , 12, 1629	2.8	1
18	Medical Applications of 3D Printing. <i>AAPS Advances in the Pharmaceutical Sciences Series</i> , 2018 , 163-182	0.5	1
17	Mechanistic In Situ and Ex Situ Studies of Phase Transformations in Molecular Co-Crystals. <i>Chemistry - A European Journal</i> , 2020 , 26, 14645-14653	4.8	1
16	Kinetic analysis of microcalorimetric data derived from microbial growth: Basic theoretical, practical and industrial considerations. <i>Journal of Microbiological Methods</i> , 2021 , 187, 106276	2.8	1
15	Prediction of Solid-State Form of SLS 3D Printed Medicines Using NIR and Raman Spectroscopy.. <i>Pharmaceutics</i> , 2022 , 14,	6.4	1
14	Machine Learning Predicts Electrospray Particle Size. <i>Materials and Design</i> , 2022 , 110735	8.1	0
13	Basic Principles of Preformulation Studies 2012 , 1-35		
12	Partition Affinity 2012 , 52-64		
11	Solubility 2012 , 65-85		
10	Dissolution 2012 , 86-97		
9	Physical Form II □Amorphous Materials 2012 , 156-180		
8	Stability Assessment 2012 , 181-210		
7	Particle Properties 2012 , 211-227		
6	Powder Properties 2012 , 228-246		
5	The Use of Microcalorimetry in Stress Testing. <i>Drugs and the Pharmaceutical Sciences</i> , 2005 , 327-354		
4	High-Sensitivity Differential Scanning Calorimetry 2006 , 287-310		
3	Calorimetric Methods □Solution Calorimetry233-243		

- 2 Study on the functional properties of potential indigenous probiotics isolated from human samples in West Africa. *LWT - Food Science and Technology*, **2020**, 133, 109895 5.4
- 1 Impact of the Microbiome on Oral Biopharmaceutics **2022**, 277-295