Simon Gaisford

List of Publications by Year in Descending Order

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	Advancing pharmacy and healthcare with virtual digital technologies.. *Advanced Drug Delivery Reviews*, **2022**, 182, 114098	18.5	4
198	Active Machine Learning for Formulation of Precision Probiotics.. *International Journal of Pharmaceutics*, **2022**, 616, 121568	6.5	1
197	Volumetric 3D printing for rapid production of medicines. *Additive Manufacturing*, **2022**, 52, 102673	6.1	1
196	Machine learning to empower electrohydrodynamic processing.. *Materials Science and Engineering C*, **2022**, 132, 112553	8.3	2
195	A customizable 3D printed device for enzymatic removal of drugs in water. *Water Research*, **2022**, 208, 117861	12.5	5
194	Prediction of Solid-State Form of SLS 3D Printed Medicines Using NIR and Raman Spectroscopy.. *Pharmaceutics*, **2022**, 14,	6.4	1
193	Impact of the Microbiome on Oral Biopharmaceutics **2022**, 277-295		
192	Machine Learning Predicts Electrospray Particle Size. *Materials and Design*, **2022**, 110735	8.1	0
191	Machine Learning and Machine Vision Accelerate 3D Printed Orodispersible Film Development.. *Pharmaceutics*, **2021**, 13,	6.4	2
190	Effect of Polyethylene Glycol Treatment on Acetic Acid Emissions from Wood. *Forests*, **2021**, 12, 1629	2.8	1
189	Nanoencapsulation for Probiotic Delivery. *ACS Nano*, **2021**,	16.7	10
188	Clinical translation of advanced colonic drug delivery technologies. *Advanced Drug Delivery Reviews*, **2021**, 181, 114076	18.5	8
187	Smartphone-enabled 3D printing of medicines. *International Journal of Pharmaceutics*, **2021**, 609, 121199	6.5	11
186	Advances in powder bed fusion 3D printing in drug delivery and healthcare. *Advanced Drug Delivery Reviews*, **2021**, 174, 406-424	18.5	39
185	Machine Learning Uncovers Adverse Drug Effects on Intestinal Bacteria. *Pharmaceutics*, **2021**, 13,	6.4	12
184	Characterisation of rectal amoxicillin (RAMOX) for the treatment of pneumonia in children. *Drug Delivery and Translational Research*, **2021**, 11, 944-955	6.2	3
183	Electrochemical biosensors: a nexus for precision medicine. *Drug Discovery Today*, **2021**, 26, 69-79	8.8	13

182	Anti-biofilm multi drug-loaded 3D printed hearing aids. *Materials Science and Engineering C*, **2021**, 119, 111606	8.3	33
181	Vat photopolymerization 3D printing for advanced drug delivery and medical device applications. *Journal of Controlled Release*, **2021**, 329, 743-757	11.7	68
180	Stereolithography (SLA) 3D printing of a bladder device for intravesical drug delivery. *Materials Science and Engineering C*, **2021**, 120, 111773	8.3	32
179	Advanced machine-learning techniques in drug discovery. *Drug Discovery Today*, **2021**, 26, 769-777	8.8	36
178	Additive Manufacturable Materials for Electrochemical Biosensor Electrodes. *Advanced Functional Materials*, **2021**, 31, 2006407	15.6	25
177	Harnessing machine learning for development of microbiome therapeutics. *Gut Microbes*, **2021**, 13, 1-20	8.8	19
176	Predicting drug-microbiome interactions with machine learning. *Biotechnology Advances*, **2021**, 107797	17.8	11
175	Harnessing artificial intelligence for the next generation of 3D printed medicines. *Advanced Drug Delivery Reviews*, **2021**, 175, 113805	18.5	35
174	Kinetic analysis of microcalorimetric data derived from microbial growth: Basic theoretical, practical and industrial considerations. *Journal of Microbiological Methods*, **2021**, 187, 106276	2.8	1
173	Connected healthcare: Improving patient care using digital health technologies. *Advanced Drug Delivery Reviews*, **2021**, 178, 113958	18.5	19
172	3D Printed Punctal Plugs for Controlled Ocular Drug Delivery. *Pharmaceutics*, **2021**, 13,	6.4	6
171	Optical biosensors - Illuminating the path to personalized drug dosing. *Biosensors and Bioelectronics*, **2021**, 188, 113331	11.8	15
170	Disrupting 3D printing of medicines with machine learning. *Trends in Pharmacological Sciences*, **2021**, 42, 745-757	13.2	28
169	Machine learning predicts 3D printing performance of over 900 drug delivery systems. *Journal of Controlled Release*, **2021**, 337, 530-545	11.7	24
168	Structure determination, thermal stability and dissolution rate of Indomethacin. *International Journal of Pharmaceutics*, **2021**, 608, 121067	6.5	4
167	Influence of probiotic bacteria on gut microbiota composition and gut wall function in an model in patients with Parkinson's disease.. *International Journal of Pharmaceutics: X*, **2021**, 3, 100087	3.2	7
166	3D printing: Principles and pharmaceutical applications of selective laser sintering. *International Journal of Pharmaceutics*, **2020**, 586, 119594	6.5	99
165	3D printed opioid medicines with alcohol-resistant and abuse-deterrent properties. *International Journal of Pharmaceutics*, **2020**, 579, 119169	6.5	45

164	3D Printed Tablets (Printlets) with Braille and Moon Patterns for Visually Impaired Patients. *Pharmaceutics*, **2020**, 12,	6.4	55
163	Stereolithography (SLA) 3D printing of an antihypertensive polyprintlet: Case study of an unexpected photopolymer-drug reaction. *Additive Manufacturing*, **2020**, 33, 101071	6.1	50
162	Non-destructive dose verification of two drugs within 3D printed polyprintlets. *International Journal of Pharmaceutics*, **2020**, 577, 119066	6.5	39
161	Selective Laser Sintering 3D Printing of Orally Disintegrating Printlets Containing Ondansetron. *Pharmaceutics*, **2020**, 12,	6.4	56
160	M3DISEEN: A novel machine learning approach for predicting the 3D printability of medicines. *International Journal of Pharmaceutics*, **2020**, 590, 119837	6.5	70
159	A Simultaneous Differential Scanning Calorimetry-X-ray Diffraction Study of Olanzapine Crystallization from Amorphous Solid Dispersions. *Molecular Pharmaceutics*, **2020**, 17, 4364-4374	5.6	4
158	The potential of Streptococcus salivarius oral films in the management of dental caries: An inkjet printing approach. *International Journal of Pharmaceutics*, **2020**, 591, 119962	6.5	15
157	A 4-strain probiotic supplement influences gut microbiota composition and gut wall function in patients with ulcerative colitis. *International Journal of Pharmaceutics*, **2020**, 587, 119648	6.5	27
156	I Spy with My Little Eye: A Paediatric Visual Preferences Survey of 3D Printed Tablets. *Pharmaceutics*, **2020**, 12,	6.4	35
155	Mechanistic In Situ and Ex Situ Studies of Phase Transformations in Molecular Co-Crystals. *Chemistry - A European Journal*, **2020**, 26, 14645-14653	4.8	1
154	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	
153	3D Printing of Tunable Zero-Order Release Printlets. *Polymers*, **2020**, 12,	4.5	27
152	3D printing tablets: Predicting printability and drug dissolution from rheological data. *International Journal of Pharmaceutics*, **2020**, 590, 119868	6.5	34
151	Metastable crystalline phase formation in deep eutectic systems revealed by simultaneous synchrotron XRD and DSC. *Chemical Communications*, **2020**, 56, 10726-10729	5.8	5
150	Shaping the future: recent advances of 3D printing in drug delivery and healthcare. *Expert Opinion on Drug Delivery*, **2019**, 16, 1081-1094	8	103
149	A thermal ink-jet printing approach for evaluating susceptibility of bacteria to antibiotics. *Journal of Microbiological Methods*, **2019**, 164, 105660	2.8	3
148	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
147	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

146	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
145	Olanzapine Form IV: Discovery of a New Polymorphic Form Enabled by Computed Crystal Energy Landscapes. *Crystal Growth and Design*, **2019**, 19, 2751-2757	3.5	22
144	Assessing inhibitory activity of probiotic culture supernatants against Pseudomonas aeruginosa: a comparative methodology between agar diffusion, broth culture and microcalorimetry. *World Journal of Microbiology and Biotechnology*, **2019**, 35, 49	4.4	9
143	3D Printed Pellets (Miniprintlets): A Novel, Multi-Drug, Controlled Release Platform Technology. *Pharmaceutics*, **2019**, 11,	6.4	93
142	Crystallisation in printed droplets: understanding crystallisation of D-mannitol polymorphs. *CrystEngComm*, **2019**, 21, 2212-2219	3.3	4
141	3D Printing of a Multi-Layered Polypill Containing Six Drugs Using a Novel Stereolithographic Method. *Pharmaceutics*, **2019**, 11,	6.4	127
140	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
139	A simultaneous X-ray diffraction–differential scanning calorimetry study into the phase transitions of mefenamic acid. *Journal of Applied Crystallography*, **2019**, 52, 1264-1270	3.8	3
138	A four-strain probiotic exerts positive immunomodulatory effects by enhancing colonic butyrate production in vitro. *International Journal of Pharmaceutics*, **2019**, 555, 1-10	6.5	44
137	Use of a water-based probiotic to treat common gut pathogens. *International Journal of Pharmaceutics*, **2019**, 556, 136-141	6.5	7
136	Personalisation of warfarin therapy using thermal ink-jet printing. *European Journal of Pharmaceutical Sciences*, **2018**, 117, 80-87	5.1	56
135	Fabricating 3D printed orally disintegrating printlets using selective laser sintering. *International Journal of Pharmaceutics*, **2018**, 541, 101-107	6.5	139
134	Key acceptability attributes of orodispersible films. *European Journal of Pharmaceutics and Biopharmaceutics*, **2018**, 125, 131-140	5.7	23
133	Nanoparticle–membrane interactions. *Journal of Experimental Nanoscience*, **2018**, 13, 62-81	1.9	94
132	Low temperature fused deposition modeling (FDM) 3D printing of thermolabile drugs. *International Journal of Pharmaceutics*, **2018**, 545, 144-152	6.5	169
131	Phase behaviour and applications of a binary liquid mixture of methanol and a thermotropic liquid crystal. *Soft Matter*, **2018**, 14, 4615-4620	3.6	14
130	3D Printing Pharmaceuticals: Drug Development to Frontline Care. *Trends in Pharmacological Sciences*, **2018**, 39, 440-451	13.2	232
129	Printing T and T oral drug combinations as a novel strategy for hypothyroidism. *International Journal of Pharmaceutics*, **2018**, 549, 363-369	6.5	44

128	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
127	3D printed medicines: A new branch of digital healthcare. *International Journal of Pharmaceutics*, **2018**, 548, 586-596	6.5	136
126	Observation with microcalorimetry: Behaviour of P. aeruginosa in mixed cultures with S. aureus and E. coli. *Thermochimica Acta*, **2018**, 663, 93-98	2.9	5
125	Polymorphic Phase Transitions in Carbamazepine and 10,11-Dihydrocarbamazepine. *Chemistry - A European Journal*, **2018**, 24, 13573-13581	4.8	10
124	Influence of Geometry on the Drug Release Profiles of Stereolithographic (SLA) 3D-Printed Tablets. *AAPS PharmSciTech*, **2018**, 19, 3355-3361	3.9	90
123	The Shape of Things to Come: Emerging Applications of 3D Printing in Healthcare. *AAPS Advances in the Pharmaceutical Sciences Series*, **2018**, 1-19	0.5	8
122	3D Printing Technologies, Implementation and Regulation: An Overview. *AAPS Advances in the Pharmaceutical Sciences Series*, **2018**, 21-40	0.5	12
121	Binder Jet Printing in Pharmaceutical Manufacturing. *AAPS Advances in the Pharmaceutical Sciences Series*, **2018**, 41-54	0.5	15
120	The History, Developments and Opportunities of Stereolithography. *AAPS Advances in the Pharmaceutical Sciences Series*, **2018**, 55-79	0.5	14
119	Powder Bed Fusion: The Working Process, Current Applications and Opportunities. *AAPS Advances in the Pharmaceutical Sciences Series*, **2018**, 81-105	0.5	12
118	Fused Deposition Modelling: Advances in Engineering and Medicine. *AAPS Advances in the Pharmaceutical Sciences Series*, **2018**, 107-132	0.5	8
117	The Role of Semi-Solid Extrusion Printing in Clinical Practice. *AAPS Advances in the Pharmaceutical Sciences Series*, **2018**, 133-151	0.5	13
116	A New Dimension: 4D Printing Opportunities in Pharmaceutics. *AAPS Advances in the Pharmaceutical Sciences Series*, **2018**, 153-162	0.5	7
115	Medical Applications of 3D Printing. *AAPS Advances in the Pharmaceutical Sciences Series*, **2018**, 163-182	0.5	1
114	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
113	PET/CT imaging of 3D printed devices in the gastrointestinal tract of rodents. *International Journal of Pharmaceutics*, **2018**, 536, 158-164	6.5	63
112	3D printing of drug-loaded gyroid lattices using selective laser sintering. *International Journal of Pharmaceutics*, **2018**, 547, 44-52	6.5	131
111	Reshaping drug development using 3D printing. *Drug Discovery Today*, **2018**, 23, 1547-1555	8.8	131

110	The Development of Quasi-isothermal Calorimetry for the Measurement of Drug-Polymer Miscibility and Crystallization Kinetics: Olanzapine-Loaded PLGA Microparticles. *Molecular Pharmaceutics*, **2018**, 15, 3332-3342	5.6	6
109	Structural and enzyme kinetic studies of retrograded starch: Inhibition of □amylase and consequences for intestinal digestion of starch. *Carbohydrate Polymers*, **2017**, 164, 154-161	10.3	75
108	Formation of Highly Metastable □Glycine by Confinement in Inkjet Printed Droplets. *Crystal Growth and Design*, **2017**, 17, 1245-1250	3.5	15
107	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
106	Patient-specific 3D scanned and 3D printed antimicrobial polycaprolactone wound dressings. *International Journal of Pharmaceutics*, **2017**, 527, 161-170	6.5	158
105	Are Oxygen and Sulfur Atoms Structurally Equivalent in Organic Crystals?. *Crystal Growth and Design*, **2017**, 17, 827-833	3.5	25
104	3D printed pharmaceutical products **2017**, 155-166		5
103	Orodispersible films: Towards drug delivery in special populations. *International Journal of Pharmaceutics*, **2017**, 523, 327-335	6.5	50
102	In vitro inhibition of Clostridium difficile by commercial probiotics: A microcalorimetric study. *International Journal of Pharmaceutics*, **2017**, 517, 96-103	6.5	18
101	Sustained antimicrobial activity and reduced toxicity of oxidative biocides through biodegradable microparticles. *Acta Biomaterialia*, **2017**, 64, 301-312	10.8	7
100	Fabrication of drug-loaded hydrogels with stereolithographic 3D printing. *International Journal of Pharmaceutics*, **2017**, 532, 313-317	6.5	143
99	Microcalorimetric evaluation of a multi-strain probiotic: Interspecies inhibition between probiotic strains. *Journal of Functional Foods*, **2017**, 36, 357-361	5.1	10
98	Patient acceptability of 3D printed medicines. *International Journal of Pharmaceutics*, **2017**, 530, 71-78	6.5	128
97	Targeted delivery of probiotics to enhance gastrointestinal stability and intestinal colonisation. *International Journal of Pharmaceutics*, **2017**, 530, 224-229	6.5	60
96	Selective laser sintering (SLS) 3D printing of medicines. *International Journal of Pharmaceutics*, **2017** , 529, 285-293	6.5	248
95	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
94	Amine bridges grafted mesoporous silica, as a prolonged/controlled drug release system for the enhanced therapeutic effect of short life drugs. *Materials Science and Engineering C*, **2017**, 72, 34-41	8.3	21
93	Laser irradiation to produce amorphous pharmaceuticals. *International Journal of Pharmaceutics*, **2016**, 514, 282-289	6.5	3

92	Simultaneous Differential Scanning Calorimetry-Synchrotron X-ray Powder Diffraction: A Powerful Technique for Physical Form Characterization in Pharmaceutical Materials. *Analytical Chemistry*, **2016**, 88, 10111-10117	7.8	21
91	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. *Journal of Physical Chemistry C*, **2016**, 120, 9385-9392	3.8	13
90	Stereolithographic (SLA) 3D printing of oral modified-release dosage forms. *International Journal of Pharmaceutics*, **2016**, 503, 207-12	6.5	276
89	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
88	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
87	A New Method for Producing Pharmaceutical Co-crystals: Laser Irradiation of Powder Blends. *Crystal Growth and Design*, **2016**, 16, 3307-3312	3.5	12
86	Stabilisation of metastable polymorphs: the case of paracetamol form III. *Chemical Communications*, **2016**, 52, 12028-12031	5.8	28
85	Development of a flow system for studying biofilm formation on medical devices with microcalorimetry. *Methods*, **2015**, 76, 35-40	4.6	10
84	Ink-jet printing versus solvent casting to prepare oral films: Effect on mechanical properties and physical stability. *International Journal of Pharmaceutics*, **2015**, 494, 611-618	6.5	59
83	Determination of physical and chemical stability in pressurised metered dose inhalers: potential new techniques. *Expert Opinion on Drug Delivery*, **2015**, 12, 1661-75	8	5
82	Personalised dosing: Printing a dose of one's own medicine. *International Journal of Pharmaceutics*, **2015**, 494, 568-577	6.5	161
81	Evaluation of Analytical Instrumentation. Part XXV: Differential Scanning Calorimetry. *Analytical Methods*, **2015**, 7, 1240-1248	3.2	1
80	Effect of geometry on drug release from 3D printed tablets. *International Journal of Pharmaceutics*, **2015**, 494, 657-663	6.5	381
79	Fabrication of controlled-release budesonide tablets via desktop (FDM) 3D printing. *International Journal of Pharmaceutics*, **2015**, 496, 414-20	6.5	217
78	3D Printing of Medicines: Engineering Novel Oral Devices with Unique Design and Drug Release Characteristics. *Molecular Pharmaceutics*, **2015**, 12, 4077-84	5.6	314
77	A study of starch gelatinisation behaviour in hydrothermally-processed plant food tissues and implications for in vitro digestibility. *Food and Function*, **2015**, 6, 3634-41	6.1	66
76	Controllable degradation kinetics of POSS nanoparticle-integrated poly(ε-caprolactone urea)urethane elastomers for tissue engineering applications. *Scientific Reports*, **2015**, 5, 15040	4.9	15
75	Comparative survival of commercial probiotic formulations: tests in biorelevant gastric fluids and real-time measurements using microcalorimetry. *Beneficial Microbes*, **2015**, 6, 141-51	4.9	33

74	Thermal Behavior of Benzoic Acid/Isonicotinamide Binary Cocrystals. *Crystal Growth and Design*, **2015**, 15, 3249-3256	3.5	7
73	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
72	An in vitro test of the efficacy of silver-containing wound dressings against Staphylococcus aureus and Pseudomonas aeruginosa in simulated wound fluid. *International Journal of Pharmaceutics*, **2014**, 462, 123-8	6.5	48
71	Amorphous formulations of indomethacin and griseofulvin prepared by electrospinning. *Molecular Pharmaceutics*, **2014**, 11, 4327-38	5.6	46
70	Physical characterisation and long-term stability studies on quaternary ammonium palmitoyl glycol chitosan (GCPQ)--a new drug delivery polymer. *Journal of Pharmaceutical Sciences*, **2014**, 103, 2296-306	3.9	22
69	Fused-filament 3D printing (3DP) for fabrication of tablets. *International Journal of Pharmaceutics*, **2014**, 476, 88-92	6.5	372
68	An in vitro test of the efficacy of an anti-biofilm wound dressing. *International Journal of Pharmaceutics*, **2014**, 474, 177-81	6.5	27
67	Oral peptide and protein delivery: intestinal obstacles and commercial prospects. *Expert Opinion on Drug Delivery*, **2014**, 11, 1323-35	8	81
66	Isothermal calorimetry: a predictive tool to model drug-propellant interactions in pressurized metered dose systems. *International Journal of Pharmaceutics*, **2014**, 461, 301-9	6.5	12
65	Use of heat of adsorption to quantify amorphous content in milled pharmaceutical powders. *International Journal of Pharmaceutics*, **2014**, 459, 19-22	6.5	3
64	Colonic bacterial metabolism of corticosteroids. *International Journal of Pharmaceutics*, **2013**, 457, 268-74	4.5	34
63	Rapid preparation of pharmaceutical co-crystals with thermal ink-jet printing. *CrystEngComm*, **2013**, 15, 1031-1035	3.3	31
62	Drug solubilisation in lipid nanoparticles containing high melting point triglycerides. *European Journal of Pharmaceutics and Biopharmaceutics*, **2013**, 85, 365-71	5.7	14
61	In vitro characterisation of terbutaline sulphate particles prepared by thermal ink-jet spray freeze drying. *International Journal of Pharmaceutics*, **2013**, 447, 165-70	6.5	39
60	Expanding the Solid-State Landscape of l-Phenylalanine: Discovery of Polymorphism and New Hydrate Phases, with Rationalization of Hydration/Dehydration Processes. *Journal of Physical Chemistry C*, **2013**, 117, 12136-12145	3.8	32
59	Quantifying crystallisation rates of amorphous pharmaceuticals with dynamic mechanical analysis (DMA). *International Journal of Pharmaceutics*, **2012**, 423, 335-40	6.5	9
58	Investigation into the effect of varying l-leucine concentration on the product characteristics of spray-dried liposome powders. *Journal of Pharmacy and Pharmacology*, **2012**, 64, 1412-24	4.8	14
57	Characterisation of ilomastat for prolonged ocular drug release. *AAPS PharmSciTech*, **2012**, 13, 1063-72	3.9	10

56	Calorimetric determination of rate constants and enthalpy changes for zero-order reactions. *Journal of Physical Chemistry B*, **2012**, 116, 6356-60	3.4	7
55	Thermal ink-jet spray freeze-drying for preparation of excipient-free salbutamol sulphate for inhalation. *European Journal of Pharmaceutics and Biopharmaceutics*, **2012**, 80, 149-55	5.7	45
54	Basic Principles of Preformulation Studies **2012**, 1-35		
53	Ionisation Constants **2012**, 36-51		1
52	Partition Affinity **2012**, 52-64		
51	Solubility **2012**, 65-85		
50	Dissolution **2012**, 86-97		
49	Salt Selection **2012**, 98-126		1
48	Physical Form I Crystalline Materials **2012**, 127-155		1
47	Physical Form II Amorphous Materials **2012**, 156-180		
46	Stability Assessment **2012**, 181-210		
45	Particle Properties **2012**, 211-227		
44	Powder Properties **2012**, 228-246		
43	Isothermal microcalorimetry for quantifying amorphous content in processed pharmaceuticals. *Advanced Drug Delivery Reviews*, **2012**, 64, 431-9	18.5	25
42	**2012**,		12
41	Characterization of Carbamazepine-Nicatinamide Cocrystal Polymorphs with Rapid Heating DSC and XRPD. *Crystal Growth and Design*, **2011**, 11, 1177-1181	3.5	26
40	Modelling of molecular phase transitions in pharmaceutical inhalation compounds: an in silico approach. *European Journal of Pharmaceutics and Biopharmaceutics*, **2011**, 78, 83-9	5.7	14
39	Application and use of isothermal calorimetry in pharmaceutical development. *International Journal of Pharmaceutics*, **2011**, 417, 83-93	6.5	35

38	Preparation of personalized-dose salbutamol sulphate oral films with thermal ink-jet printing. *Pharmaceutical Research*, **2011**, 28, 2386-92	4.5	141
37	Pharmaceutical physical form characterisation with fast (>200 °C min-1) DSC heating rates. *Journal of Thermal Analysis and Calorimetry*, **2011**, 106, 221-226	4.1	17
36	Binding interactions of α-amylase with starch granules: The influence of supramolecular structure and surface area. *Carbohydrate Polymers*, **2011**, 86, 1038-1047	10.3	85
35	Quantitative analysis of solid-state processes studied with isothermal microcalorimetry. *Journal of Physical Chemistry B*, **2010**, 114, 13173-8	3.4	6
34	The use of dynamic mechanical analysis (DMA) to evaluate plasticization of acrylic polymer films under simulated gastrointestinal conditions. *European Journal of Pharmaceutics and Biopharmaceutics*, **2010**, 76, 493-7	5.7	33
33	Characterisation of paracetamol form III with rapid-heating DSC. *Journal of Pharmaceutical and Biomedical Analysis*, **2010**, 53, 366-70	3.5	29
32	Following mechanical activation of salbutamol sulphate during ball-milling with isothermal calorimetry. *International Journal of Pharmaceutics*, **2010**, 393, 74-8	6.5	19
31	Quantifying the rates of relaxation of binary mixtures of amorphous pharmaceuticals with isothermal calorimetry. *International Journal of Pharmaceutics*, **2010**, 399, 12-8	6.5	9
30	Monitoring crystallisation of drugs from fast-dissolving oral films with isothermal calorimetry. *International Journal of Pharmaceutics*, **2009**, 380, 105-11	6.5	23
29	An in vitro method for the quantitative determination of the antimicrobial efficacy of silver-containing wound dressings. *International Journal of Pharmaceutics*, **2009**, 366, 111-6	6.5	34
28	The role of solution calorimetry in investigating controlled-release processes from polymeric drug delivery systems. *European Journal of Pharmaceutics and Biopharmaceutics*, **2008**, 68, 795-801	5.7	6
27	Effect of surface energy on powder compactibility. *Pharmaceutical Research*, **2008**, 25, 2750-9	4.5	47
26	LED-array photocalorimetry: instrument design and application to photostability of nifedipine. *Journal of Pharmaceutical and Biomedical Analysis*, **2008**, 48, 1316-20	3.5	10
25	Application of chemometric analysis to complexity in isothermal calorimetric data. *Journal of Physical Chemistry B*, **2007**, 111, 8145-9	3.4	11
24	The use of isothermal titration calorimetry to assess the solubility enhancement of simvastatin by a range of surfactants. *Thermochimica Acta*, **2007**, 456, 106-113	2.9	21
23	Development of an isothermal heat-conduction photocalorimeter. *Review of Scientific Instruments*, **2007**, 78, 025105	1.7	5
22	Isothermal micro-calorimetry: a tool to predict seed longevity?. *Seed Science Research*, **2006**, 16, 89-96	1.3	3
21	Solution calorimetry to monitor swelling and dissolution of polymers and polymer blends. *Thermochimica Acta*, **2006**, 450, 56-60	2.9	13

20	Performance validation of step-isothermal calorimeters. *Journal of Thermal Analysis and Calorimetry*, **2006**, 83, 331-334	4.1	12
19	High-Sensitivity Differential Scanning Calorimetry **2006**, 287-310		
18	The Use of Microcalorimetry in Stress Testing. *Drugs and the Pharmaceutical Sciences*, **2005**, 327-354		
17	Stability assessment of pharmaceuticals by isothermal calorimetry: two component systems. *International Journal of Pharmaceutics*, **2005**, 292, 127-35	6.5	17
16	Calorimetric determination of amorphous content in lactose: a note on the preparation of calibration curves. *International Journal of Pharmaceutics*, **2005**, 300, 13-21	6.5	18
15	A comparison of chemical reference materials for solution calorimeters. *International Journal of Pharmaceutics*, **2005**, 299, 73-83	6.5	14
14	Application of solution calorimetry in pharmaceutical and biopharmaceutical research. *Current Pharmaceutical Biotechnology*, **2005**, 6, 215-22	2.6	17
13	Stability assessment of pharmaceuticals and biopharmaceuticals by isothermal calorimetry. *Current Pharmaceutical Biotechnology*, **2005**, 6, 181-91	2.6	15
12	Approaches to determine the enthalpy of crystallisation, and amorphous content, of lactose from isothermal calorimetric data. *International Journal of Pharmaceutics*, **2004**, 284, 83-94	6.5	35
11	Solution calorimetry as a tool to study the neutralising capacity of magnesium trisilicate mixture BP and its components. *Thermochimica Acta*, **2004**, 417, 217-221	2.9	4
10	Isothermal microcalorimetry as a tool to study solid–vapour interactions: design and testing of a novel hydration apparatus. *Thermochimica Acta*, **2003**, 399, 91-98	2.9	2
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