

# Duncan Q M Craig

## List of Publications by Citations

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77  
papers

2,398  
citations

26  
h-index

47  
g-index

81  
ext. papers

2,633  
ext. citations

5.2  
avg, IF

5.46  
L-index

#	Paper	IF	Citations
77	The mechanisms of drug release from solid dispersions in water-soluble polymers. <i>International Journal of Pharmaceutics</i> , <b>2002</b> , 231, 131-44	6.5	681
76	Characterization of the block structure and molecular weight of sodium alginates. <i>Journal of Pharmacy and Pharmacology</i> , <b>1997</b> , 49, 639-43	4.8	113
75	Characterisation of solid dispersions of paracetamol and EUDRAGIT E prepared by hot-melt extrusion using thermal, microthermal and spectroscopic analysis. <i>International Journal of Pharmaceutics</i> , <b>2008</b> , 354, 158-67	6.5	111
74	Characterisation and prediction of phase separation in hot-melt extruded solid dispersions: a thermal, microscopic and NMR relaxometry study. <i>Pharmaceutical Research</i> , <b>2010</b> , 27, 1869-83	4.5	71
73	An evaluation of the mechanisms of drug release from glyceride bases. <i>Journal of Pharmacy and Pharmacology</i> , <b>1995</b> , 47, 182-7	4.8	61
72	Formation of protein and protein-gold nanoparticle stabilized microbubbles by pressurized gyration. <i>Langmuir</i> , <b>2015</b> , 31, 659-66	4	58
71	The influence of drug physical state on the dissolution enhancement of solid dispersions prepared via hot-melt extrusion: a case study using olanzapine. <i>Journal of Pharmaceutical Sciences</i> , <b>2014</b> , 103, 1214-23	4.9	52
70	Structural studies of microcosm dental plaques grown under different nutritional conditions. <i>FEMS Microbiology Letters</i> , <b>2000</b> , 189, 215-8	2.9	51
69	Recent developments in micro- and nanofabrication techniques for the preparation of amorphous pharmaceutical dosage forms. <i>Advanced Drug Delivery Reviews</i> , <b>2016</b> , 100, 67-84	18.5	49
68	An evaluation of the use of modulated temperature DSC as a means of assessing the relaxation behaviour of amorphous lactose. <i>Pharmaceutical Research</i> , <b>2000</b> , 17, 696-700	4.5	49
67	Compositional analysis of low quantities of phase separation in hot-melt-extruded solid dispersions: a combined atomic force microscopy, photothermal fourier-transform infrared microspectroscopy, and localised thermal analysis approach. <i>Pharmaceutical Research</i> , <b>2011</b> , 28, 2311-26	4.5	48
66	The effects of ageing on the rheological, dielectric and mucoadhesive properties of poly(acrylic acid) gel systems. <i>Pharmaceutical Research</i> , <b>1996</b> , 13, 279-83	4.5	44
65	Development of micro-fibrous solid dispersions of poorly water-soluble drugs in sucrose using temperature-controlled centrifugal spinning. <i>European Journal of Pharmaceutics and Biopharmaceutics</i> , <b>2016</b> , 103, 84-94	5.7	43
64	Nanoscale characterisation and imaging of partially amorphous materials using local thermomechanical analysis and heated tip AFM. <i>Pharmaceutical Research</i> , <b>2007</b> , 24, 2048-54	4.5	39
63	Making Nonwoven Fibrous Poly( $\epsilon$ -caprolactone) Constructs for Antimicrobial and Tissue Engineering Applications by Pressurized Melt Gyration. <i>Macromolecular Materials and Engineering</i> , <b>2016</b> , 301, 922-934	3.9	38
62	Generation of poly(N-vinylpyrrolidone) nanofibres using pressurised gyration. <i>Materials Science and Engineering C</i> , <b>2014</b> , 39, 168-76	8.3	36
61	Making nanofibres of mucoadhesive polymer blends for vaginal therapies. <i>European Polymer Journal</i> , <b>2015</b> , 70, 186-196	5.2	33

60	Mucoadhesion of Progesterone-Loaded Drug Delivery Nanofiber Constructs. <i>ACS Applied Materials &amp; Interfaces</i> , <b>2018</b> , 10, 13381-13389	9.5	33
59	An Investigation into the Crystallization of $\alpha$ -D-Glucopyranose from the Amorphous State. <i>Journal of Physical Chemistry B</i> , <b>2003</b> , 107, 6614-6620	3.4	33
58	The development of progesterone-loaded nanofibers using pressurized gyration: A novel approach to vaginal delivery for the prevention of pre-term birth. <i>International Journal of Pharmaceutics</i> , <b>2018</b> , 540, 31-39	6.5	30
57	Development and Characterization of Amorphous Nanofiber Drug Dispersions Prepared Using Pressurized Gyration. <i>Molecular Pharmaceutics</i> , <b>2015</b> , 12, 3851-61	5.6	30
56	An investigation into the effect of preparation conditions on the structure and mechanical properties of pharmaceutical glyceride bases. <i>International Journal of Pharmaceutics</i> , <b>1994</b> , 110, 75-91	6.5	30
55	The use of modulated temperature DSC for the study of pharmaceutical systems: potential uses and limitations. <i>Pharmaceutical Research</i> , <b>1998</b> , 15, 1152-3	4.5	29
54	An investigation into the influence of drug-polymer interactions on the miscibility, processability and structure of polyvinylpyrrolidone-based hot melt extrusion formulations. <i>International Journal of Pharmaceutics</i> , <b>2015</b> , 496, 95-106	6.5	28
53	Pharmaceutical applications of micro-thermal analysis. <i>Journal of Pharmaceutical Sciences</i> , <b>2002</b> , 91, 1201-13	3.3	28
52	An investigation into the thermal behaviour of an amorphous drug using low frequency dielectric spectroscopy and modulated temperature differential scanning calorimetry. <i>Journal of Pharmacy and Pharmacology</i> , <b>2001</b> , 53, 41-8	4.8	26
51	In vitro drug release from acetylated high amylose starch-zein films for oral colon-specific drug delivery. <i>International Journal of Pharmaceutics</i> , <b>2019</b> , 556, 311-319	6.5	26
50	Solid state characterisation and taste masking efficiency evaluation of polymer based extrudates of isoniazid for paediatric administration. <i>International Journal of Pharmaceutics</i> , <b>2018</b> , 536, 536-546	6.5	24
49	An investigation into the mechanisms of drug release from taste-masking fatty acid microspheres. <i>Journal of Pharmaceutical Sciences</i> , <b>2008</b> , 97, 3842-54	3.9	24
48	Hot melt extruded transdermal films based on amorphous solid dispersions in Eudragit RS PO: The inclusion of hydrophilic additives to develop moisture-activated release systems. <i>International Journal of Pharmaceutics</i> , <b>2016</b> , 514, 270-281	6.5	23
47	Olanzapine Form IV: Discovery of a New Polymorphic Form Enabled by Computed Crystal Energy Landscapes. <i>Crystal Growth and Design</i> , <b>2019</b> , 19, 2751-2757	3.5	22
46	Evaluation of the taste-masking effects of (2-hydroxypropyl)- $\beta$ -cyclodextrin on ranitidine hydrochloride; a combined biosensor, spectroscopic and molecular modelling assessment. <i>RSC Advances</i> , <b>2018</b> , 8, 3564-3573	3.7	22
45	The application of ATR-FTIR spectroscopy and multivariate data analysis to study drug crystallisation in the stratum corneum. <i>European Journal of Pharmaceutics and Biopharmaceutics</i> , <b>2017</b> , 111, 16-25	5.7	22
44	The measurement of small quantities of amorphous material--should we be considering the rigid amorphous fraction?. <i>Pharmaceutical Research</i> , <b>2001</b> , 18, 1081-2	4.5	21
43	The effect of processing on the surface physical stability of amorphous solid dispersions. <i>European Journal of Pharmaceutics and Biopharmaceutics</i> , <b>2014</b> , 88, 897-908	5.7	19

42	Two- and three-dimensional imaging of multicomponent systems using scanning thermal microscopy and localized thermomechanical analysis. <i>Analytical Chemistry</i> , <b>2007</b> , 79, 129-39	7.8	18
41	Dual drug-loaded coaxial nanofibers for the treatment of corneal abrasion. <i>International Journal of Pharmaceutics</i> , <b>2020</b> , 581, 119296	6.5	17
40	Thermal probe based analytical microscopy: thermal analysis and photothermal Fourier-transform infrared microspectroscopy together with thermally assisted nanosampling coupled with capillary electrophoresis. <i>Analytical Chemistry</i> , <b>2009</b> , 81, 6612-9	7.8	17
39	Spatial characterization of hot melt extruded dispersion systems using thermal atomic force microscopy methods: the effects of processing parameters on phase separation. <i>Pharmaceutical Research</i> , <b>2014</b> , 31, 1744-52	4.5	15
38	Mapping amorphous material on a partially crystalline surface: nanothermal analysis for simultaneous characterisation and imaging of lactose compacts. <i>Journal of Pharmaceutical Sciences</i> , <b>2009</b> , 98, 1499-510	3.9	15
37	Electrospinning Optimization of Eudragit E PO with and without Chlorpheniramine Maleate Using a Design of Experiment Approach. <i>Molecular Pharmaceutics</i> , <b>2019</b> , 16, 2557-2568	5.6	14
36	Low-Frequency Dielectric Investigations into the Phase Behavior of Glyceryl Monoolein/Water Systems. <i>Journal of Physical Chemistry B</i> , <b>1998</b> , 102, 1781-1786	3.4	14
35	The generation of compartmentalized nanoparticles containing siRNA and cisplatin using a multi-needle electrohydrodynamic strategy. <i>Nanoscale</i> , <b>2017</b> , 9, 5975-5985	7.7	13
34	An Inexpensive, Portable Device for Point-of-Need Generation of Silver-Nanoparticle Doped Cellulose Acetate Nanofibers for Advanced Wound Dressing. <i>Macromolecular Materials and Engineering</i> , <b>2018</b> , 303, 1700586	3.9	13
33	An investigation into the temperature dependence of the rheological synergy between xanthan gum and locust bean gum mixtures. <i>Journal of Biomaterials Science, Polymer Edition</i> , <b>1997</b> , 8, 377-89	3.5	12
32	The development of heated tip force-distance measurements as a novel approach to site-specific characterization of pharmaceutical materials. <i>Journal of Pharmaceutical Sciences</i> , <b>2008</b> , 97, 2768-79	3.9	12
31	Microfibrous Solid Dispersions of Poorly Water-Soluble Drugs Produced via Centrifugal Spinning: Unexpected Dissolution Behavior on Recrystallization. <i>Molecular Pharmaceutics</i> , <b>2017</b> , 14, 1666-1680	5.6	11
30	Pharmaceutical materials science--resuscitation or reincarnation?. <i>Journal of Pharmacy and Pharmacology</i> , <b>1997</b> , 49, 119-26	4.8	11
29	The development of thermally assisted particle manipulation and thermal nanointeraction studies as a means of investigating drug-polymer interactions. <i>Journal of Pharmaceutical Sciences</i> , <b>2008</b> , 97, 1557-63	7.9	11
28	Design and Characterization of Cyclosporine A-Loaded Nanofibers for Enhanced Drug Dissolution. <i>ACS Omega</i> , <b>2020</b> , 5, 1003-1013	3.9	10
27	The Journal of Pharmacy and Pharmacology in the New Millennium. <i>Journal of Pharmacy and Pharmacology</i> , <b>2010</b> , 52, 1-1	4.8	10
26	A Potential Alternative Orodispersible Formulation to Prednisolone Sodium Phosphate Orally Disintegrating Tablets. <i>Pharmaceutics</i> , <b>2021</b> , 13,	6.4	10
25	Multi-Methodological Quantitative Taste Assessment of Anti-Tuberculosis Drugs to Support the Development of Palatable Paediatric Dosage Forms. <i>Pharmaceutics</i> , <b>2020</b> , 12,	6.4	9

24	Compositional analysis of metal chelating materials using near-field photothermal Fourier transform infrared microspectroscopy. <i>Analytical Chemistry</i> , <b>2010</b> , 82, 91-7	7.8	8
23	An investigation into the low temperature thermal behaviour of vitamin E preparation USP using differential scanning calorimetry and low frequency dielectric analysis. <i>Journal of Pharmacy and Pharmacology</i> , <b>2000</b> , 52, 941-7	4.8	8
22	Monitoring Drug Crystallization in Percutaneous Penetration Using Localized Nanothermal Analysis and Photothermal Microspectroscopy. <i>Molecular Pharmaceutics</i> , <b>2019</b> , 16, 359-370	5.6	8
21	The application of novel nano-thermal and imaging techniques for monitoring drug microstructure and distribution within PLGA microspheres. <i>International Journal of Pharmaceutics</i> , <b>2017</b> , 522, 34-49	6.5	7
20	Generation and Characterization of Standardized Forms of Trehalose Dihydrate and Their Associated Solid-State Behavior. <i>Crystal Growth and Design</i> , <b>2014</b> , 14, 4955-4967	3.5	7
19	Characterization of the variation between batches of Fast-Flo lactose using low frequency dielectric spectroscopy. <i>Journal of Pharmacy and Pharmacology</i> , <b>1991</b> , 43, 444-5	4.8	7
18	Microfluidic synthesis of protein-loaded nanogels in a coaxial flow reactor using a design of experiments approach. <i>Nanoscale Advances</i> , <b>2021</b> , 3, 2039-2055	5.1	7
17	Profiling of drug crystallization in the skin. <i>Expert Opinion on Drug Delivery</i> , <b>2020</b> , 17, 1321-1334	8	6
16	The Development of Quasi-isothermal Calorimetry for the Measurement of Drug-Polymer Miscibility and Crystallization Kinetics: Olanzapine-Loaded PLGA Microparticles. <i>Molecular Pharmaceutics</i> , <b>2018</b> , 15, 3332-3342	5.6	6
15	The use of quasi-isothermal modulated temperature differential scanning calorimetry for the characterization of slow crystallization processes in lipid-based solid self-emulsifying systems. <i>Pharmaceutical Research</i> , <b>2015</b> , 32, 1316-24	4.5	5
14	Nano-thermal imaging of the stratum corneum and its potential use for understanding of the mechanism of skin penetration enhancer. <i>Thermochimica Acta</i> , <b>2017</b> , 655, 278-283	2.9	5
13	The development of thermal nanoprobe methods as a means of characterizing and mapping plasticizer incorporation into ethylcellulose films. <i>Pharmaceutical Research</i> , <b>2012</b> , 29, 2128-38	4.5	5
12	Utilising Co-Axial Electrospinning as a Taste-Masking Technology for Paediatric Drug Delivery. <i>Pharmaceutics</i> , <b>2021</b> , 13,	6.4	5
11	In vitro and in vivo biological assessment of dual drug-loaded coaxial nanofibers for the treatment of corneal abrasion. <i>International Journal of Pharmaceutics</i> , <b>2021</b> , 604, 120732	6.5	5
10	Human mouthfeel panel investigating the acceptability of electrospun and solvent cast orodispersible films. <i>International Journal of Pharmaceutics</i> , <b>2020</b> , 585, 119532	6.5	4
9	Alginate foam-based three-dimensional culture to investigate drug sensitivity in primary leukaemia cells. <i>Journal of the Royal Society Interface</i> , <b>2018</b> , 15,	4.1	4
8	Analysis of single particle photodegradation using photothermal infrared microspectroscopy. <i>Analyst, The</i> , <b>2013</b> , 138, 2315-22	5	4
7	A Simultaneous Differential Scanning Calorimetry-X-ray Diffraction Study of Olanzapine Crystallization from Amorphous Solid Dispersions. <i>Molecular Pharmaceutics</i> , <b>2020</b> , 17, 4364-4374	5.6	4

6	Involving medical students in service improvement: evaluation of a student-led, extracurricular, multidisciplinary quality improvement initiative. <i>Advances in Medical Education and Practice</i> , <b>2019</b> , 10, 781-793	1.5	3
5	Controlled local release of PPAR $\alpha$ agonists from biomaterials to treat peripheral nerve injury. <i>Journal of Neural Engineering</i> , <b>2020</b> , 17, 046030	5	3
4	Administration of aspirin tablets using a novel gel-based swallowing aid: an open-label randomised controlled cross-over trial. <i>BMJ Innovations</i> , <b>2019</b> , 5, 113-119	1.8	2
3	Characterization of Polymorphic Systems Using Thermal Analysis <b>2006</b> , 43-79		1
2	Development and Evaluation of Feline Tailored Amlodipine Besylate Mini-Tablets Using L-lysine as a Candidate Flavouring Agent. <i>Pharmaceutics</i> , <b>2020</b> , 12,	6.4	1
1	An investigation into the drug dependence of the structure and release properties of Gelucire 50/13 matrices. <i>Journal of Pharmacy and Pharmacology</i> , <b>2011</b> , 50, 142-142	4.8	