

Paul G Royall

List of Publications by Year in descending order

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Version: 2024-02-01

68
papers

1,901
citations

236925

25
h-index

289244

40
g-index

71
all docs

71
docs citations

71
times ranked

2026
citing authors

#	ARTICLE	IF	CITATIONS
1	Binding interactions of α -amylase with starch granules: The influence of supramolecular structure and surface area. <i>Carbohydrate Polymers</i> , 2011, 86, 1038-1047.	10.2	116
2	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.	10.2	104
3	The development of DMA for the detection of amorphous content in pharmaceutical powdered materials. <i>International Journal of Pharmaceutics</i> , 2005, 301, 181-191.	5.2	100
4	The potential of high speed DSC (Hyper-DSC) for the detection and quantification of small amounts of amorphous content in predominantly crystalline samples. <i>International Journal of Pharmaceutics</i> , 2004, 274, 35-40.	5.2	92
5	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, 3634-3641.	4.6	87
6	Characterisation of the glass transition of an amorphous drug using modulated DSC. <i>Pharmaceutical Research</i> , 1998, 15, 1117-1121.	3.5	69
7	Characterisation and Deposition Studies of Recrystallised Lactose from Binary Mixtures of Ethanol/Butanol for Improved Drug Delivery from Dry Powder Inhalers. <i>AAPS Journal</i> , 2011, 13, 30-43.	4.4	61
8	An Evaluation of the Delivery of Medicines Using Drones. <i>Drones</i> , 2019, 3, 52.	4.9	58
9	An evaluation of the use of modulated temperature DSC as a means of assessing the relaxation behaviour of amorphous lactose. <i>Pharmaceutical Research</i> , 2000, 17, 696-700.	3.5	54
10	A Biocompatible Synthetic Lung Fluid Based on Human Respiratory Tract Lining Fluid Composition. <i>Pharmaceutical Research</i> , 2017, 34, 2454-2465.	3.5	49
11	Differences in physical chemistry and dissolution rate of solid particle aerosols from solution pressurised inhalers. <i>International Journal of Pharmaceutics</i> , 2014, 465, 42-51.	5.2	45
12	A novel powder sample holder for the determination of glass transition temperatures by DMA. <i>International Journal of Pharmaceutics</i> , 2009, 371, 120-125.	5.2	41
13	Characterisation of moisture uptake effects on the glass transitional behaviour of an amorphous drug using modulated temperature DSC. <i>International Journal of Pharmaceutics</i> , 1999, 192, 39-46.	5.2	40
14	Infrared Spectroscopy with Heated Attenuated Total Internal Reflectance Enabling Precise Measurement of Thermally Induced Transitions in Complex Biological Polymers. <i>Analytical Chemistry</i> , 2013, 85, 3999-4006.	6.5	39
15	Naloxone without the needle $\hat{=}$ systematic review of candidate routes for non-injectable naloxone for opioid overdose reversal. <i>Drug and Alcohol Dependence</i> , 2016, 163, 16-23.	3.2	38
16	An investigation into the use of micro-thermal analysis for the solid state characterisation of an HPMC tablet formulation. <i>International Journal of Pharmaceutics</i> , 1999, 192, 97-103.	5.2	37
17	The Measurement of the $\hat{=}$ Anomer Composition Within Amorphous Lactose Prepared by Spray and Freeze Drying Using a Simple $^1\text{H-NMR}$ Method. <i>Pharmaceutical Research</i> , 2012, 29, 511-524.	3.5	37
18	The detection of amorphous material in a nominally crystalline drug using modulated temperature DSC – a case study. <i>International Journal of Pharmaceutics</i> , 1999, 192, 55-62.	5.2	36

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19	<p>Ocular anti-inflammatory activity of prednisolone acetate loaded chitosan-deoxycholate self-assembled nanoparticles</p>. International Journal of Nanomedicine, 2019, Volume 14, 3679-3689.	6.7	35
20	Controlling drug release with additive manufacturing-based solutions. Advanced Drug Delivery Reviews, 2021, 174, 369-386.	13.7	33
21	The use of modulated temperature DSC for the study of pharmaceutical systems: potential uses and limitations. , 1998, 15, 1152-1153.		32
22	Design and development of a biorelevant simulated human lung fluid. Journal of Drug Delivery Science and Technology, 2018, 47, 485-491.	3.0	32
23	Effect of non-cross-linked calcium on characteristics, swelling behaviour, drug release and mucoadhesiveness of calcium alginate beads. Carbohydrate Polymers, 2016, 140, 163-170.	10.2	30
24	In-situ freeze-drying - forming amorphous solids directly within capsules: An investigation of dissolution enhancement for a poorly soluble drug. Scientific Reports, 2017, 7, 2910.	3.3	29
25	An investigation of calibration methods for solution calorimetry. International Journal of Pharmaceutics, 2004, 269, 361-372.	5.2	28
26	Monitoring crystallisation of drugs from fast-dissolving oral films with isothermal calorimetry. International Journal of Pharmaceutics, 2009, 380, 105-111.	5.2	28
27	Glycerol Solvates DPPC Headgroups and Localizes in the Interfacial Regions of Model Pulmonary Interfaces Altering Bilayer Structure. Langmuir, 2018, 34, 6941-6954.	3.5	25
28	Retinal cell regeneration using tissue engineered polymeric scaffolds. Drug Discovery Today, 2019, 24, 1669-1678.	6.4	25
29	Variability in the $\hat{\alpha}$ and $\hat{\beta}$ anomer content of commercially available lactose. International Journal of Pharmaceutics, 2019, 555, 237-249.	5.2	24
30	Application of Solution Calorimetry in Pharmaceutical and Biopharmaceutical Research. Current Pharmaceutical Biotechnology, 2005, 6, 215-222.	1.6	23
31	Removal of ciprofloxacin in simulated digestive media by activated charcoal entrapped within zinc-pectinate beads. International Journal of Pharmaceutics, 2009, 379, 251-259.	5.2	22
32	Efficient approach to enhance drug solubility by particle engineering of bovine serum albumin. International Journal of Pharmaceutics, 2016, 515, 740-748.	5.2	22
33	Buccal drug delivery technologies for patient-centred treatment of radiation-induced xerostomia (dry mouth). International Journal of Pharmaceutics, 2018, 541, 157-166.	5.2	22
34	Quantifying the Effects of Vibration on Medicines in Transit Caused by Fixed-Wing and Multi-Copter Drones. Drones, 2021, 5, 22.	4.9	22
35	In Vitro Evaluation of Third Generation PAMAM Dendrimer Conjugates. Molecules, 2017, 22, 1661.	3.8	20
36	An Evaluation of the Drone Delivery of Adrenaline Auto-Injectors for Anaphylaxis: Pharmacistsâ€™ Perceptions, Acceptance, and Concerns. Drones, 2020, 4, 66.	4.9	19

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37	How Do Dangerous Goods Regulations Apply to Uncrewed Aerial Vehicles Transporting Medical Cargos?. <i>Drones</i> , 2021, 5, 38.	4.9	19
38	A comparison of chemical reference materials for solution calorimeters. <i>International Journal of Pharmaceutics</i> , 2005, 299, 73-83.	5.2	18
39	Sunscreens Containing Cyclodextrin Inclusion Complexes for Enhanced Efficiency: A Strategy for Skin Cancer Prevention. <i>Molecules</i> , 2021, 26, 1698.	3.8	18
40	An investigation into the surface deposition of progesterone on poly (d,l-) lactic acid microspheres using micro-thermal analysis. <i>Pharmaceutical Research</i> , 2001, 18, 294-298.	3.5	17
41	Stability of Sugar Solutions: A Novel Study of the Epimerization Kinetics of Lactose in Water. <i>Molecular Pharmaceutics</i> , 2014, 11, 2224-2238.	4.6	17
42	Characterization of amorphous ketoconazole using modulated temperature differential scanning calorimetry. <i>Journal of Pharmaceutical Sciences</i> , 2001, 90, 996-1003.	3.3	16
43	The use of micro-thermal analysis as a means of in situ characterisation of a pharmaceutical tablet coat. <i>Thermochimica Acta</i> , 2001, 380, 165-173.	2.7	15
44	Potential Use of the Maillard Reaction for Pharmaceutical Applications: Gastric and Intestinal Controlled Release Alginate-Albumin Beads. <i>Pharmaceutics</i> , 2019, 11, 83.	4.5	15
45	Cyclodextrin Diethyldithiocarbamate Copper II Inclusion Complexes: A Promising Chemotherapeutic Delivery System against Chemoresistant Triple Negative Breast Cancer Cell Lines. <i>Pharmaceutics</i> , 2021, 13, 84.	4.5	15
46	A novel natural GRAS-grade enteric coating for pharmaceutical and nutraceutical products. <i>International Journal of Pharmaceutics</i> , 2020, 584, 119392.	5.2	15
47	Amorphous Formulation and <i>in Vitro</i> Performance Testing of Instantly Disintegrating Buccal Tablets for the Emergency Delivery of Naloxone. <i>Molecular Pharmaceutics</i> , 2016, 13, 1688-1698.	4.6	13
48	Solid Dispersions of Gefitinib Prepared by Spray Drying with Improved Mucoadhesive and Drug Dissolution Properties. <i>AAPS PharmSciTech</i> , 2022, 23, 48.	3.3	13
49	An innovative wax-based enteric coating for pharmaceutical and nutraceutical oral products. <i>International Journal of Pharmaceutics</i> , 2020, 591, 119935.	5.2	12
50	Stability of α -lactose monohydrate: The discovery of dehydration triggered solid-state epimerization. <i>International Journal of Pharmaceutics</i> , 2021, 604, 120715.	5.2	12
51	Anti-counterfeiting DNA molecular tagging of pharmaceutical excipients: An evaluation of lactose containing tablets. <i>International Journal of Pharmaceutics</i> , 2019, 571, 118656.	5.2	11
52	Using Robotics in Laboratories During the COVID-19 Outbreak: A Review. <i>IEEE Robotics and Automation Magazine</i> , 2021, 28, 28-39.	2.0	11
53	Crystallisation of freeze-dried sucrose in model mixtures that represent the amorphous sugar matrices present in confectionery. <i>Food and Function</i> , 2018, 9, 4621-4634.	4.6	10
54	Pharmaceutical, biomedical and ophthalmic applications of biodegradable polymers (BDPs): literature and patent review. <i>Pharmaceutical Development and Technology</i> , 2022, 27, 341-356.	2.4	10

#	ARTICLE	IF	CITATIONS
55	Immersion mode material pocket dynamic mechanical analysis (IMP-DMA): A novel tool to study gelatinisation of purified starches and starch-containing plant materials. <i>Carbohydrate Polymers</i> , 2012, 90, 628-636.	10.2	9
56	Mechanistic study of the solubilization effect of basic amino acids on a poorly water-soluble drug. <i>RSC Advances</i> , 2022, 12, 19040-19053.	3.6	8
57	The use of albumin solid dispersion to enhance the solubility of unionizable drugs. <i>Pharmaceutical Development and Technology</i> , 2018, 23, 732-738.	2.4	7
58	Solid-state epimerisation and disproportionation of pilocarpine HCl: Why we need a 5-stage approach to validate melting point measurements for heat-sensitive drugs. <i>International Journal of Pharmaceutics</i> , 2020, 574, 118869.	5.2	7
59	Digital Image Disintegration Analysis: a Novel Quality Control Method for Fast Disintegrating Tablets. <i>AAPS PharmSciTech</i> , 2021, 22, 219.	3.3	7
60	The effect of hydration on the thermal behaviour of hydrophilic non-aqueous gels stabilised by Carbopol 974P. <i>Thermochimica Acta</i> , 2004, 417, 251-255.	2.7	6
61	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.	2.7	5
62	Repurposing Melt Degradation for the Evaluation of Mixed Amorphous-Crystalline Blends. <i>AAPS PharmSciTech</i> , 2021, 22, 105.	3.3	4
63	Development of a point-of-care test for the detection of MDMA in latent fingerprints using surface plasmon resonance and lateral flow technology. <i>Drug Testing and Analysis</i> , 2022, 14, 613-621.	2.6	3
64	Enabling Safe and Sustainable Medical Deliveries by Connected Autonomous Freight Vehicles Operating within Dangerous Goods Regulations. <i>Sustainability</i> , 2022, 14, 930.	3.2	3
65	A Cyclodextrin-Stabilized Spermine-Tagged Drug Triplex that Targets Theophylline to the Lungs Selectively in Respiratory Emergency. <i>Advanced Therapeutics</i> , 2020, 3, 2000153.	3.2	2
66	Polyelectrolyte Multi-Layered Griseofulvin Nanoparticles: Conventional versus Continuous In-Situ Layer-by-Layer Fabrication. <i>Journal of Nanoscience and Nanotechnology</i> , 2021, 21, 5611-5621.	0.9	1
67	A Novel Multilayer Natural Coating for Fed-State Gastric Protection. <i>Pharmaceutics</i> , 2022, 14, 283.	4.5	1
68	Monitor: Profiles. <i>Pharmaceutical Science & Technology Today</i> , 1999, 2, 217-219.	0.7	0