

Gavin Andrews

List of Publications by Year in descending order

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Version: 2024-02-01

106
papers

3,720
citations

136885

32
h-index

143943

57
g-index

108
all docs

108
docs citations

108
times ranked

4077
citing authors

#	ARTICLE	IF	CITATIONS
1	3D Printing: an appealing technology for the manufacturing of solid oral dosage forms. <i>Journal of Pharmacy and Pharmacology</i> , 2022, 74, 1427-1449.	1.2	10
2	The development and optimisation of gastro-retentive floating tablets using fused deposition modelling 3D printing. <i>Journal of Pharmacy and Pharmacology</i> , 2022, 74, 1450-1466.	1.2	6
3	3D printing of pharmaceutical oral solid dosage forms by fused deposition: The enhancement of printability using plasticised HPMCAS. <i>International Journal of Pharmaceutics</i> , 2022, 616, 121553.	2.6	18
4	Recent advances in carbon quantum dots for virus detection, as well as inhibition and treatment of viral infection. <i>Nano Convergence</i> , 2022, 9, 15.	6.3	40
5	The Current States, Challenges, Ongoing Efforts, and Future Perspectives of Pharmaceutical Excipients in Pediatric Patients in Each Country and Region. <i>Children</i> , 2022, 9, 453.	0.6	8
6	Exploiting hydrogen bonding to enhance lidocaine loading and stability in a poly ethylene-co-vinyl acetate carrier matrix. <i>International Journal of Pharmaceutics</i> , 2022, 621, 121819.	2.6	2
7	Development of Polycaprolactone-Based metronidazole matrices for intravaginal extended drug delivery using a mechanochemically prepared therapeutic deep eutectic system. <i>International Journal of Pharmaceutics</i> , 2021, 593, 120071.	2.6	12
8	Drug release from hydroxypropylcellulose gels cannot be statistically predicted from their viscometric and initial viscoelastic properties. <i>Carbohydrate Polymers</i> , 2021, 256, 117512.	5.1	1
9	The optimization of process analytical technology for the inline quantification of multiple drugs in fixed dose combinations during continuous processing. <i>International Journal of Pharmaceutics</i> , 2021, 592, 120024.	2.6	6
10	Drug-Rich Phases Induced by Amorphous Solid Dispersion: Arbitrary or Intentional Goal in Oral Drug Delivery?. <i>Pharmaceutics</i> , 2021, 13, 889.	2.0	17
11	Effect of carrier type and Tween® 80 concentration on the release of silymarin from amorphous solid dispersions. <i>Journal of Drug Delivery Science and Technology</i> , 2021, 63, 102416.	1.4	3
12	Continuous manufacture of hydroxychloroquine sulfate drug products via hot melt extrusion technology to meet increased demand during a global pandemic: From bench to pilot scale. <i>International Journal of Pharmaceutics</i> , 2021, 605, 120818.	2.6	5
13	Solvent-Assisted Hot Melt Extrusion of a Thermally Labile, High Melting Point Compound. <i>AAPS PharmSciTech</i> , 2021, 22, 235.	1.5	2
14	Investigation into the role of the polymer in enhancing microwave-induced in situ amorphization. <i>International Journal of Pharmaceutics</i> , 2021, 609, 121157.	2.6	4
15	Metformin Hydrochloride and Sitagliptin Phosphate Fixed-Dose Combination Product Prepared Using Melt Granulation Continuous Processing Technology. <i>AAPS PharmSciTech</i> , 2020, 21, 23.	1.5	10
16	Microwave-Induced In Situ Amorphization: A New Strategy for Tackling the Stability Issue of Amorphous Solid Dispersions. <i>Pharmaceutics</i> , 2020, 12, 655.	2.0	22
17	IVVC for Extended Release Hydrophilic Matrix Tablets in Consideration of Biorelevant Mechanical Stress. <i>Pharmaceutical Research</i> , 2020, 37, 227.	1.7	5
18	A non-opioid analgesic implant for sustained post-operative intraperitoneal delivery of lidocaine, characterized using an ovine model. <i>Biomaterials</i> , 2020, 263, 120409.	5.7	10

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19	The design and development of high drug loading amorphous solid dispersion for hot-melt extrusion platform. <i>International Journal of Pharmaceutics</i> , 2020, 586, 119545.	2.6	44
20	The development and validation of a quality by design based process analytical tool for the inline quantification of Ramipril during hot-melt extrusion. <i>International Journal of Pharmaceutics</i> , 2020, 584, 119382.	2.6	19
21	The Investigation of Flory-Huggins Interaction Parameters for Amorphous Solid Dispersion Across the Entire Temperature and Composition Range. <i>Pharmaceutics</i> , 2019, 11, 420.	2.0	23
22	Fixed Dose Combination Formulations: Multilayered Platforms Designed for the Management of Cardiovascular Disease. <i>Molecular Pharmaceutics</i> , 2019, 16, 1827-1838.	2.3	14
23	The development of an inline Raman spectroscopic analysis method as a quality control tool for hot melt extruded ramipril fixed-dose combination products. <i>International Journal of Pharmaceutics</i> , 2019, 566, 476-487.	2.6	21
24	A statistical determination of the contribution of viscoelasticity of aqueous carbohydrate polymer networks to drug release. <i>Carbohydrate Polymers</i> , 2019, 206, 511-519.	5.1	2
25	Understanding the physicochemical properties and degradation kinetics of nicotinamide riboside, a promising vitamin B3 nutritional supplement. <i>Food and Nutrition Research</i> , 2019, 63, .	1.2	10
26	A comparative study between hot-melt extrusion and spray-drying for the manufacture of anti-hypertension compatible monolithic fixed-dose combination products. <i>International Journal of Pharmaceutics</i> , 2018, 545, 183-196.	2.6	31
27	Comparing human peritoneal fluid and phosphate-buffered saline for drug delivery: do we need bio-relevant media?. <i>Drug Delivery and Translational Research</i> , 2018, 8, 708-718.	3.0	10
28	Mechanochemical Synthesis of Pharmaceutical Cocrystal Suspensions via Hot Melt Extrusion: Enhancing Cocrystal Yield. <i>Molecular Pharmaceutics</i> , 2018, 15, 3741-3754.	2.3	24
29	A New Method of Constructing a Drug-Polymer Temperature-Composition Phase Diagram Using Hot-Melt Extrusion. <i>Molecular Pharmaceutics</i> , 2018, 15, 1379-1391.	2.3	16
30	Metal nanoparticle-hydrogel nanocomposites for biomedical applications - An atmospheric pressure plasma synthesis approach. <i>Plasma Processes and Polymers</i> , 2018, 15, 1800112.	1.6	34
31	Development, Validation and Application of a Stability Indicating HPLC Method to Quantify Lidocaine from Polyethylene-co-Vinyl Acetate (EVA) Matrices and Biological Fluids. <i>Journal of Chromatographic Science</i> , 2017, 55, 832-838.	0.7	16
32	Strontium-containing, carbohydrate-based polymer networks as tooth-adherent systems for the treatment of dentine hypersensitivity. <i>Carbohydrate Polymers</i> , 2017, 157, 400-408.	5.1	1
33	Optimization of singlet oxygen production from photosensitizer-incorporated, medically relevant hydrogels. <i>Journal of Biomedical Materials Research - Part B Applied Biomaterials</i> , 2017, 105, 320-326.	1.6	16
34	Systematic optimization of poly(vinyl chloride) surface modification with an aromatic thiol. <i>European Polymer Journal</i> , 2017, 97, 40-48.	2.6	15
35	An Infection-Responsive Approach To Reduce Bacterial Adhesion in Urinary Biomaterials. <i>Molecular Pharmaceutics</i> , 2016, 13, 2817-2822.	2.3	26
36	Statistical modelling of the rheological and mucoadhesive properties of aqueous poly(methylvinylether-co-maleic acid) networks: Redefining biomedical applications and the relationship between viscoelasticity and mucoadhesion. <i>Colloids and Surfaces B: Biointerfaces</i> , 2016, 144, 125-134.	2.5	25

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37	Design of binary polymeric platforms containing É©-carrageenan and hydroxypropylcellulose for use in cataract surgery. Carbohydrate Polymers, 2016, 154, 296-304.	5.1	3
38	The Use of Binary Polymeric Networks in Stabilizing Polyethylene Oxide Solid Dispersions. Journal of Pharmaceutical Sciences, 2016, 105, 3064-3072.	1.6	8
39	The development of sustained release drug delivery platforms using melt-extruded cellulose-based polymer blends. Journal of Pharmacy and Pharmacology, 2016, 69, 32-42.	1.2	14
40	Mechanochemical Synthesis of Pharmaceutical Cocrystal Suspensions via Hot Melt Extrusion: Feasibility Studies and Physicochemical Characterization. Molecular Pharmaceutics, 2016, 13, 3054-3068.	2.3	81
41	Solubility parameter-based screening methods for early-stage formulation development of itraconazole amorphous solid dispersions. Journal of Pharmacy and Pharmacology, 2016, 68, 705-720.	1.2	32
42	Optimising Drug Solubilisation in Amorphous Polymer Dispersions: Rational Selection of Hot-melt Extrusion Processing Parameters. AAPS PharmSciTech, 2016, 17, 200-213.	1.5	40
43	Rheological Analysis of Polymer Interactions and Ageing of Poly(Methylvinylether-Co-Maleic) Tj ETQq1 1 0.784314 rgBT /Overlock 10 Tf Pharmaceutical Sciences, 2015, 104, 4329-4338.	1.6	6
44	Novel Supercritical Carbon Dioxide Impregnation Technique for the Production of Amorphous Solid Drug Dispersions: A Comparison to Hot Melt Extrusion. Molecular Pharmaceutics, 2015, 12, 1377-1390.	2.3	41
45	Probing the Effects of Experimental Conditions on the Character of Drug-Polymer Phase Diagrams Constructed Using Flory-Huggins Theory. Pharmaceutical Research, 2015, 32, 167-179.	1.7	54
46	An Investigation into the Role of Polymeric Carriers on Crystal Growth within Amorphous Solid Dispersion Systems. Molecular Pharmaceutics, 2015, 12, 1180-1192.	2.3	38
47	Comparative Study of Different Methods for the Prediction of Drugâ€™ Polymer Solubility. Molecular Pharmaceutics, 2015, 12, 3408-3419.	2.3	111
48	Characterisation and modelling of the thermorheological properties of pharmaceutical polymers and their blends using capillary rheometry: Implications for hot melt processing of dosage forms. International Journal of Pharmaceutics, 2015, 493, 251-259.	2.6	9
49	Hydrogel Antimicrobial Capture Coatings for Endotracheal Tubes: A Pharmaceutical Strategy Designed to Prevent Ventilator-Associated Pneumonia. Molecular Pharmaceutics, 2015, 12, 2928-2936.	2.3	16
50	Reprint of â€™Characterisation and modelling of the thermorheological properties of pharmaceutical polymers and their blends using capillary rheometry: Implications for hot melt processing of dosage formsâ€™. International Journal of Pharmaceutics, 2015, 496, 86-94.	2.6	4
51	Characterization of Bioadhesion. , 2015, , 23-46.		0
52	Hot melt extrusion â€™ processing solid solutions?. Journal of Pharmacy and Pharmacology, 2014, 66, 145-147.	1.2	7
53	Thermodynamically stable amorphous drug dispersions in amorphous hydrophilic polymers engineered by hot melt extrusion. Chemical Engineering Research and Design, 2014, 92, 3046-3054.	2.7	9
54	Gastroretentive Extended-Release Floating Granules Prepared Using a Novel Fluidized Hot Melt Granulation (FHMG) Technique. Molecular Pharmaceutics, 2014, 11, 3471-3483.	2.3	13

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55	Using Flory-Huggins phase diagrams as a pre-formulation tool for the production of amorphous solid dispersions: a comparison between hot-melt extrusion and spray drying. <i>Journal of Pharmacy and Pharmacology</i> , 2014, 66, 256-274.	1.2	58
56	Mucoadhesion and Characterization of Mucoadhesive Properties. , 2014, , 35-58.		22
57	The effect of dilute solution properties on poly(vinyl alcohol) films. <i>Journal of the Mechanical Behavior of Biomedical Materials</i> , 2013, 28, 222-231.	1.5	10
58	Lecithin-based emulsions for potential use as saliva substitutes in patients with xerostomia - viscoelastic properties. <i>International Journal of Pharmaceutics</i> , 2013, 456, 560-568.	2.6	19
59	Enhanced antimicrobial activities of 1-alkyl-3-methyl imidazolium ionic liquids based on silver or copper containing anions. <i>New Journal of Chemistry</i> , 2013, 37, 873.	1.4	45
60	Synthesis and release kinetics of polymerisable ester drug conjugates: towards pH-responsive infection-resistant urinary biomaterials. <i>Tetrahedron Letters</i> , 2013, 54, 2511-2514.	0.7	4
61	Construction of Drug-Polymer Thermodynamic Phase Diagrams Using Flory-Huggins Interaction Theory: Identifying the Relevance of Temperature and Drug Weight Fraction to Phase Separation within Solid Dispersions. <i>Molecular Pharmaceutics</i> , 2013, 10, 236-248.	2.3	187
62	Preparation and Evaluation of Sustained-Release Matrix Tablets Based on Metoprolol and an Acrylic Carrier Using Injection Moulding. <i>AAPS PharmSciTech</i> , 2012, 13, 1197-1211.	1.5	21
63	Hot-melt extrusion technology and pharmaceutical application. <i>Therapeutic Delivery</i> , 2012, 3, 787-797.	1.2	78
64	Hydrogels as drug-delivery platforms: physicochemical barriers and solutions. <i>Therapeutic Delivery</i> , 2012, 3, 775-786.	1.2	8
65	Novel semi-interpenetrating hydrogel networks with enhanced mechanical properties and thermoresponsive engineered drug delivery, designed as bioactive endotracheal tube biomaterials. <i>European Journal of Pharmaceutics and Biopharmaceutics</i> , 2012, 82, 563-571.	2.0	41
66	Pharmaceutical applications of dynamic mechanical thermal analysis. <i>Advanced Drug Delivery Reviews</i> , 2012, 64, 440-448.	6.6	41
67	Characterisation of protein stability in rod-insert vaginal rings. <i>International Journal of Pharmaceutics</i> , 2012, 430, 89-97.	2.6	14
68	Development of liposome gel based formulations for intravaginal delivery of the recombinant HIV-1 envelope protein CN54gp140. <i>European Journal of Pharmaceutical Sciences</i> , 2012, 46, 315-322.	1.9	47
69	Understanding the Performance of Melt-Extruded Poly(ethylene oxide)-Bicalutamide Solid Dispersions: Characterisation of Microstructural Properties Using Thermal, Spectroscopic and Drug Release Methods. <i>Journal of Pharmaceutical Sciences</i> , 2012, 101, 200-213.	1.6	52
70	Effect of the incorporation of hydroxy-terminated liquid silicones on the cure characteristics, morphology, and release of a model protein from silicone elastomer-covered rods. <i>Journal of Applied Polymer Science</i> , 2012, 124, 805-812.	1.3	5
71	An Investigation into the Dissolution Properties of Celecoxib Melt Extrudates: Understanding the Role of Polymer Type and Concentration in Stabilizing Supersaturated Drug Concentrations. <i>Molecular Pharmaceutics</i> , 2011, 8, 1362-1371.	2.3	92
72	Sustained release of proteins from a modified vaginal ring device. <i>European Journal of Pharmaceutics and Biopharmaceutics</i> , 2011, 77, 3-10.	2.0	48

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73	Intravaginal immunization using the recombinant HIV-1 clade-C trimeric envelope glycoprotein CN54gp140 formulated within lyophilized solid dosage forms. <i>Vaccine</i> , 2011, 29, 4512-4520.	1.7	27
74	Development of Novel Oral Formulations Prepared <i>via</i> Hot Melt Extrusion for Targeted Delivery of Photosensitizer to the Colon. <i>Photochemistry and Photobiology</i> , 2011, 87, 867-876.	1.3	24
75	Vaginal gel drug delivery systems: understanding rheological characteristics and performance. <i>Expert Opinion on Drug Delivery</i> , 2011, 8, 1309-1322.	2.4	42
76	Reduction of <i>Staphylococcus aureus</i> and <i>Pseudomonas aeruginosa</i> colonisation on PVC through covalent surface attachment of fluorinated thiols. <i>Journal of Pharmacy and Pharmacology</i> , 2010, 61, 1163-1169.	1.2	10
77	Development of liposome-based freeze-dried rods for vaginal vaccine delivery against HIV-1. <i>Journal of Controlled Release</i> , 2010, 148, e108-e110.	4.8	4
78	Rheological evaluation of the isothermal cure characteristics of medical grade silicone elastomers. <i>Journal of Applied Polymer Science</i> , 2010, 116, 2320-2327.	1.3	9
79	Physicochemical Characterization of Hot Melt Extruded Bicalutamide-Polyvinylpyrrolidone Solid Dispersions. <i>Journal of Pharmaceutical Sciences</i> , 2010, 99, 1322-1335.	1.6	106
80	Moisture-activated rheological structuring of nonaqueous poloxamine-poly(acrylic acid) systems designed as novel biomedical implants. <i>Journal of Pharmaceutical Sciences</i> , 2010, 99, 1838-1854.	1.6	8
81	Selection of an analytical method for evaluating bovine serum albumin concentrations in pharmaceutical polymeric formulations. <i>Journal of Pharmaceutical and Biomedical Analysis</i> , 2010, 51, 1175-1179.	1.4	28
82	Triggered drug delivery from biomaterials. <i>Expert Opinion on Drug Delivery</i> , 2010, 7, 605-616.	2.4	72
83	Physicochemical characterization and drug-release properties of celecoxib hot-melt extruded glass solutions. <i>Journal of Pharmacy and Pharmacology</i> , 2010, 62, 1580-1590.	1.2	100
84	Characterisation of the thermal, spectroscopic and drug dissolution properties of mefenamic acid and polyoxyethylene-polyoxypropylene solid dispersions. <i>Journal of Pharmaceutical Sciences</i> , 2009, 98, 4545-4556.	1.6	31
85	Rheological, mechanical and mucoadhesive properties of thermoresponsive, bioadhesive binary mixtures composed of poloxamer 407 and carbopol 974P designed as platforms for implantable drug delivery systems for use in the oral cavity. <i>International Journal of Pharmaceutics</i> , 2009, 372, 49-58.	2.6	180
86	Characterization of the Rheological, Mucoadhesive, and Drug Release Properties of Highly Structured Gel Platforms for Intravaginal Drug Delivery. <i>Biomacromolecules</i> , 2009, 10, 2427-2435.	2.6	68
87	Mucoadhesive polymeric platforms for controlled drug delivery. <i>European Journal of Pharmaceutics and Biopharmaceutics</i> , 2009, 71, 505-518.	2.0	625
88	Vaginal delivery of the recombinant HIV-1 clade-C trimeric gp140 envelope protein CN54gp140 within novel rheologically structured vehicles elicits specific immune responses. <i>Vaccine</i> , 2009, 27, 6791-6798.	1.7	46
89	Physicochemical Characterization of Bioactive Polyacrylic Acid Organogels as Potential Antimicrobial Implants for the Buccal Cavity. <i>Biomacromolecules</i> , 2008, 9, 624-633.	2.6	25
90	The manufacture and characterisation of hot-melt extruded enteric tablets. <i>European Journal of Pharmaceutics and Biopharmaceutics</i> , 2008, 69, 264-273.	2.0	63

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91	Advances in solid dosage form manufacturing technology. Philosophical Transactions Series A, Mathematical, Physical, and Engineering Sciences, 2007, 365, 2935-2949.	1.6	20
92	An examination of the thermorheological and drug release properties of zinc tetraphenylporphyrin-containing thermoresponsive hydrogels, designed as light activated antimicrobial implants. Chemical Engineering Science, 2007, 62, 990-999.	1.9	18
93	Rheological Characterization of Bioadhesive Binary Polymeric Systems Designed as Platforms for Drug Delivery Implants. Biomacromolecules, 2006, 7, 899-906.	2.6	65
94	Analysis of pyrazine 2,5-dipropionic acid in 5-aminolevulinic acid-loaded urological and topical delivery vehicles: methodology and assay validation. Journal of Pharmaceutical and Biomedical Analysis, 2005, 36, 1099-1105.	1.4	13
95	Rheological characterisation of primary and binary interactive bioadhesive gels composed of cellulose derivatives designed as ophthalmic viscosurgical devices. Biomaterials, 2005, 26, 571-580.	5.7	70
96	Stability of 5-aminolevulinic acid in novel non-aqueous gel and patch-type systems intended for topical application. Journal of Pharmaceutical Sciences, 2005, 94, 1756-1771.	1.6	24
97	Using the effect size to model change in preference values from descriptive health status. Quality of Life Research, 2004, 13, 1255-1264.	1.5	40
98	Influence of plasticizer type and storage conditions on properties of poly(methyl vinyl) Tj ETQq0 0 0 rgBT /Overlock 10 Tf 50 462 Td (eth	1.3	55
99	In reply: Measuring outcomes in patients with depression and anxiety: an essential part of clinical practice. Medical Journal of Australia, 2003, 178, 48-48.	0.8	2
100	Outcome Measurement: Sharing Experiences in Australia. Australasian Psychiatry, 1996, 4, 316-318.	0.4	14
101	The Prospect of Cure: Implications for Mental Health Planning. Behaviour Change, 1992, 9, 246-253.	0.6	3
102	The diagnosis and management of pathological anxiety. Medical Journal of Australia, 1990, 152, 656-659.	0.8	10
103	Early and late components of the contingent negative variation prior to manual and speech responses in stutterers and non-stutterers. International Journal of Psychophysiology, 1984, 2, 121-130.	0.5	10
104	Brief Psychotherapy in Family Practice. British Journal of Psychiatry, 1983, 143, 11-19.	1.7	76
105	General Practitioner as Psychotherapist. Medical Journal of Australia, 1980, 2, 655-659.	0.8	14
106	Factors Affecting the Intelligibility of Cerebral Palsied Speech to the Average Listener. Folia Phoniatica Et Logopaedica, 1977, 29, 292-301.	0.5	10