

Michelle Paula McIntosh

List of Publications by Year in descending order

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65
papers

2,186
citations

257357

24
h-index

233338

45
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65
all docs

65
docs citations

65
times ranked

2783
citing authors

#	ARTICLE	IF	CITATIONS
1	Miniature inhalation therapy platform using surface acoustic wave microfluidic atomization. <i>Lab on A Chip</i> , 2009, 9, 2184.	3.1	151
2	Pulmonary and Systemic Pharmacokinetics of Inhaled and Intravenous Colistin Methanesulfonate in Cystic Fibrosis Patients: Targeting Advantage of Inhalational Administration. <i>Antimicrobial Agents and Chemotherapy</i> , 2014, 58, 2570-2579.	1.4	138
3	Lipid Digestion as a Trigger for Supersaturation: Evaluation of the Impact of Supersaturation Stabilization on the in Vitro and in Vivo Performance of Self-Emulsifying Drug Delivery Systems. <i>Molecular Pharmaceutics</i> , 2012, 9, 2063-2079.	2.3	125
4	The effect of amino acid excipients on morphology and solid-state properties of multi-component spray-dried formulations for pulmonary delivery of biomacromolecules. <i>European Journal of Pharmaceutics and Biopharmaceutics</i> , 2013, 83, 234-243.	2.0	115
5	New developments in dry powder pulmonary vaccine delivery. <i>Trends in Biotechnology</i> , 2011, 29, 191-198.	4.9	109
6	Ultrasonic nebulization platforms for pulmonary drug delivery. <i>Expert Opinion on Drug Delivery</i> , 2010, 7, 663-679.	2.4	106
7	Pulmonary Administration of PEGylated Polylysine Dendrimers: Absorption from the Lung versus Retention within the Lung Is Highly Size-Dependent. <i>Molecular Pharmaceutics</i> , 2013, 10, 2986-2995.	2.3	93
8	Effective pulmonary delivery of an aerosolized plasmid DNA vaccine via surface acoustic wave nebulization. <i>Respiratory Research</i> , 2014, 15, 60.	1.4	81
9	PEGylated polylysine dendrimers increase lymphatic exposure to doxorubicin when compared to PEGylated liposomal and solution formulations of doxorubicin. <i>Journal of Controlled Release</i> , 2013, 172, 128-136.	4.8	74
10	<i>In vitro</i> pharmacodynamics of fosfomycin against clinical isolates of <i>Pseudomonas aeruginosa</i> . <i>Journal of Antimicrobial Chemotherapy</i> , 2015, 70, 3042-3050.	1.3	72
11	Inhibiting Heat-Shock Protein 90 Reverses Sensory Hypoalgesia in Diabetic Mice. <i>ASN Neuro</i> , 2010, 2, AN20100015.	1.5	67
12	Disposition and safety of inhaled biodegradable nanomedicines: Opportunities and challenges. <i>Nanomedicine: Nanotechnology, Biology, and Medicine</i> , 2016, 12, 1703-1724.	1.7	67
13	Investigating the interactions of amino acid components on a mannitol-based spray-dried powder formulation for pulmonary delivery: A design of experiment approach. <i>International Journal of Pharmaceutics</i> , 2011, 421, 220-229.	2.6	51
14	The Lymphatic System Plays a Major Role in the Intravenous and Subcutaneous Pharmacokinetics of Trastuzumab in Rats. <i>Molecular Pharmaceutics</i> , 2014, 11, 496-504.	2.3	49
15	Evaluation of the impact of altered lipoprotein binding conditions on halofantrine induced QTc interval prolongation in an anaesthetized rabbit model. <i>Journal of Pharmacy and Pharmacology</i> , 2010, 56, 69-77.	1.2	48
16	In Situ Conjugation of Dithiophenol Maleimide Polymers and Oxytocin for Stable and Reversible Polymer-peptide Conjugates. <i>Bioconjugate Chemistry</i> , 2015, 26, 633-638.	1.8	47
17	Population Pharmacokinetics of Colistin Methanesulfonate in Rats: Achieving Sustained Lung Concentrations of Colistin for Targeting Respiratory Infections. <i>Antimicrobial Agents and Chemotherapy</i> , 2013, 57, 5087-5095.	1.4	42
18	Spray-Dried Influenza Antigen with Trehalose and Leucine Produces an Aerosolizable Powder Vaccine Formulation that Induces Strong Systemic and Mucosal Immunity after Pulmonary Administration. <i>Journal of Aerosol Medicine and Pulmonary Drug Delivery</i> , 2015, 28, 361-371.	0.7	42

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19	A comparison of the lung clearance kinetics of solid lipid nanoparticles and liposomes by following the 3H-labelled structural lipids after pulmonary delivery in rats. <i>European Journal of Pharmaceutics and Biopharmaceutics</i> , 2018, 125, 1-12.	2.0	42
20	The Role of the Intestinal Lymphatics in the Absorption of Two Highly Lipophilic Cholesterol Ester Transfer Protein Inhibitors (CP524,515 and CP532,623). <i>Pharmaceutical Research</i> , 2010, 27, 878-893.	1.7	35
21	In vitro and in vivo evaluation of a sulfobutyl ether β -cyclodextrin enabled etomidate formulation. <i>Journal of Pharmaceutical Sciences</i> , 2004, 93, 2585-2594.	1.6	33
22	Clinically relevant concentrations of fosfomycin combined with polymyxin B, tobramycin or ciprofloxacin enhance bacterial killing of <i>Pseudomonas aeruginosa</i> , but do not suppress the emergence of fosfomycin resistance. <i>Journal of Antimicrobial Chemotherapy</i> , 2016, 71, 2218-2229.	1.3	32
23	Effect of increased surface hydrophobicity via drug conjugation on the clearance of inhaled PEGylated polylysine dendrimers. <i>European Journal of Pharmaceutics and Biopharmaceutics</i> , 2017, 119, 408-418.	2.0	28
24	Substantial Targeting Advantage Achieved by Pulmonary Administration of Colistin Methanesulfonate in a Large-Animal Model. <i>Antimicrobial Agents and Chemotherapy</i> , 2017, 61, .	1.4	27
25	Local inflammation alters the lung disposition of a drug loaded pegylated liposome after pulmonary dosing to rats. <i>Journal of Controlled Release</i> , 2019, 307, 32-43.	4.8	26
26	Effect of Freezing on Oxytocin Ampules. <i>New England Journal of Medicine</i> , 2013, 368, 2145-2146.	13.9	25
27	Suggested Procedures for the Reproducible Synthesis of Poly(d,l-lactide-co-glycolide) Nanoparticles Using the Emulsification Solvent Diffusion Platform. <i>Current Nanoscience</i> , 2018, 14, 448-453.	0.7	25
28	Differences in the Lipoprotein Binding profile of Halofantrine in Fed and Fasted Human or beagle Plasma are dictated by the Respective Masses of Core Apolar Lipoprotein Lipid. <i>Journal of Pharmaceutical Sciences</i> , 1999, 88, 378-384.	1.6	22
29	Structural influence of cohesive mixtures of salbutamol sulphate and lactose on aerosolisation and de-agglomeration behaviour under dynamic conditions. <i>European Journal of Pharmaceutical Sciences</i> , 2011, 42, 210-219.	1.9	22
30	Comb Poly(Oligo(2-ethyl-2-oxazoline)Methacrylate)-Peptide Conjugates Prepared by Aqueous Cu(O)-Mediated Polymerization and Reductive Amination. <i>Macromolecular Rapid Communications</i> , 2017, 38, 1600534.	2.0	22
31	The impact of size and charge on the pulmonary pharmacokinetics and immunological response of the lungs to PLGA nanoparticles after intratracheal administration to rats. <i>Nanomedicine: Nanotechnology, Biology, and Medicine</i> , 2020, 30, 102291.	1.7	22
32	Elucidation of the pharmacokinetic/pharmacodynamic determinants of fosfomycin activity against <i>Pseudomonas aeruginosa</i> using a dynamic in vitro model. <i>Journal of Antimicrobial Chemotherapy</i> , 2018, 73, 1570-1578.	1.3	21
33	Differences in the lipoprotein distribution of halofantrine are regulated by lipoprotein apolar lipid and protein concentration and lipid transfer protein I activity: In vitro studies in normolipidemic and dyslipidemic human plasmas. <i>Journal of Pharmaceutical Sciences</i> , 1999, 88, 185-190.	1.6	20
34	Designing a Multicomponent Spray-Dried Formulation Platform for Pulmonary Delivery of Biomacromolecules: The Effect of Polymers on the Formation of an Amorphous Matrix for Glassy State Stabilization of Biomacromolecules. <i>Drying Technology</i> , 2013, 31, 1451-1458.	1.7	20
35	Pulmonary Delivery of an Ultra-Fine Oxytocin Dry Powder Formulation: Potential for Treatment of Postpartum Haemorrhage in Developing Countries. <i>PLoS ONE</i> , 2013, 8, e82965.	1.1	20
36	Designing a multi-component spray-dried formulation platform for pulmonary delivery of biopharmaceuticals: The use of polyol, disaccharide, polysaccharide and synthetic polymer to modify solid-state properties for glassy stabilisation. <i>Powder Technology</i> , 2016, 287, 248-255.	2.1	20

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37	Knowledge, perception and practice towards oxytocin stability and quality: A qualitative study of stakeholders in three resource-limited countries. PLoS ONE, 2018, 13, e0203810.	1.1	20
38	Comparative canine Pharmacokinetics and Pharmacodynamics of Fospropofol Disodium Injection, Propofol Emulsion, and Cyclodextrin-Enabled Propofol Solution Following Bolus Parenteral Administration. Journal of Pharmaceutical Sciences, 2012, 101, 3547-3552.	1.6	19
39	The Effect of Intravenous Sulfobutylether- β -Cyclodextrin on the Pharmacokinetics of a Series of Adamantane-Containing Compounds. Journal of Pharmaceutical Sciences, 2015, 104, 1492-1498.	1.6	17
40	Safety, Tolerability and Pharmacokinetics of Single Doses of Oxytocin Administered via an Inhaled Route in Healthy Females: Randomized, Single-blind, Phase 1 Study. EBioMedicine, 2017, 22, 249-255.	2.7	17
41	A simple and efficient high-performance liquid chromatographic assay for etomidate in plasma. Journal of Pharmaceutical and Biomedical Analysis, 2001, 24, 689-694.	1.4	14
42	Stability Enhancing N-Terminal PEGylation of Oxytocin Exploiting Different Polymer Architectures and Conjugation Approaches. Biomacromolecules, 2016, 17, 2755-2766.	2.6	13
43	Ongoing In Vivo Studies with Cytoskeletal Drugs in Tau Transgenic Mice. Current Alzheimer Research, 2006, 3, 215-219.	0.7	12
44	Preclinical comparison of intravenous melphalan pharmacokinetics administered in formulations containing either (SBE) β -CD or β -cyclodextrin or a co-solvent system. Biopharmaceutics and Drug Disposition, 2010, 31, 450-454.	1.1	12
45	Quality of oxytocin ampoules available in health care facilities in the Democratic Republic of Congo: an exploratory study in five provinces. Journal of Global Health, 2018, 8, 020415.	1.2	12
46	Desbutylhalofantrine: Evaluation of QT Prolongation and Other Cardiovascular Effects after Intravenous Administration In Vivo. Journal of Cardiovascular Pharmacology, 2003, 41, 406-413.	0.8	11
47	Impact of Chlorpromazine Self-Association on Its Apparent Binding Constants With Cyclodextrins: Effect of SBE β -CD on the Disposition of Chlorpromazine in the Rat. Journal of Pharmaceutical Sciences, 2010, 99, 2999-3008.	1.6	10
48	Removal of interstitial hyaluronan with recombinant human hyaluronidase improves the systemic and lymphatic uptake of cetuximab in rats. Journal of Controlled Release, 2019, 315, 85-96.	4.8	10
49	Temperature stability of oxytocin ampoules labelled for storage at 2-8°C and below 25°C: an observational assessment under controlled accelerated and temperature cycling conditions. BMJ Open, 2019, 9, e029083.	0.8	10
50	Single quadrupole mass spectrometry for pre-clinical pharmacokinetic analysis: Quantitation of carvedilol in dog plasma. Journal of Chromatography B: Analytical Technologies in the Biomedical and Life Sciences, 2007, 852, 665-668.	1.2	9
51	Oxytocin quality: evidence to support updated global recommendations on oxytocin for postpartum hemorrhage. Journal of Pharmaceutical Policy and Practice, 2020, 13, 14.	1.1	9
52	Global testing of a consensus solubility assessment to enhance robustness of the WHO biopharmaceutical classification system. ADMET and DMPK, 2021, 9, 23-39.	1.1	7
53	Influence of physicochemical properties on the patterns of association of a series of aliphatic esters of halofantrine with plasma lipoproteins. Journal of Controlled Release, 2004, 95, 275-289.	4.8	6
54	Evaluation of mean arterial blood pressure, heart rate, and sympathetic nerve activity in rabbits after administration of two formulations of etomidate. Veterinary Anaesthesia and Analgesia, 2007, 34, 149-156.	0.3	6

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55	Preliminary Evaluation of Polymer-Based Drug Composite Microparticle Production by Coacervate Desolvation with Supercritical Carbon Dioxide. <i>Journal of Pharmaceutical Sciences</i> , 2006, 95, 581-588.	1.6	5
56	Hemodynamic Profile in Rabbits of Fospropofol Disodium Injection Relative to Propofol Emulsion Following Rapid Bolus Injection. <i>Journal of Pharmaceutical Sciences</i> , 2012, 101, 3518-3525.	1.6	5
57	Depolymerization of hyaluronan using PEGylated human recombinant hyaluronidase promotes nanoparticle tumor penetration. <i>Nanomedicine</i> , 2021, 16, 275-292.	1.7	5
58	Assessing the operational feasibility and acceptability of an inhalable formulation of oxytocin for improving community-based prevention of postpartum haemorrhage in Myanmar: a qualitative inquiry. <i>BMJ Open</i> , 2018, 8, e022140.	0.8	4
59	Cost-effectiveness of inhaled oxytocin for prevention of postpartum haemorrhage: a modelling study applied to two high burden settings. <i>BMC Medicine</i> , 2020, 18, 201.	2.3	4
60	Preparation and Purification of Desethylamidarone Hydrochloride. <i>Synthetic Communications</i> , 2006, 36, 3371-3376.	1.1	3
61	Probing a Potential In Vivo Drug-Excipient Interaction: Temporal Effects of a Modified β -Cyclodextrin on the Intravenous Pharmacokinetics of a Model High-Affinity Drug Ligand. <i>Journal of Pharmaceutical Sciences</i> , 2012, 101, 3381-3389.	1.6	3
62	Evaluation of the Impact of Sulfobutylether7- β -Cyclodextrin on the Liquid Chromatography-Mass spectrometry Analysis of Biological Samples Arising from In Vivo Pharmacokinetic Studies. <i>Journal of Pharmaceutical Sciences</i> , 2015, 104, 1561-1562.	1.6	2
63	Qualitative formative implementation research to inform introduction of a new essential medicine. <i>Research in Social and Administrative Pharmacy</i> , 2020, 16, 535-543.	1.5	2
64	Pharmacokinetics and Safety of Inhaled Oxytocin Compared with Intramuscular Oxytocin: The First Randomised Open-Label Study in Women in the Third Stage of Labour. <i>SSRN Electronic Journal</i> , 0, , .	0.4	0
65	Oxytocin injection quality in Ethiopia: a post-marketing surveillance study in public and private facilities across three regions. <i>Journal of Forensic Odonto-Stomatology</i> , 0, 3, .	0.2	0