

Majella E Lane

List of Publications by Year in descending order

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102
papers

3,076
citations

147801

31
h-index

182427

51
g-index

107
all docs

107
docs citations

107
times ranked

3414
citing authors

#	ARTICLE	IF	CITATIONS
1	Skin penetration enhancers. <i>International Journal of Pharmaceutics</i> , 2013, 447, 12-21.	5.2	590
2	NSAID injury to the gastrointestinal tract: evidence that NSAIDs interact with phospholipids to weaken the hydrophobic surface barrier and induce the formation of unstable pores in membranes. <i>Journal of Pharmacy and Pharmacology</i> , 2010, 58, 1421-1428.	2.4	126
3	Oral transmucosal drug delivery – Current status and future prospects. <i>International Journal of Pharmaceutics</i> , 2014, 471, 498-506.	5.2	111
4	Influence of Ethanol on the Solubility, Ionization and Permeation Characteristics of Ibuprofen in Silicone and Human Skin. <i>Skin Pharmacology and Physiology</i> , 2009, 22, 15-21.	2.5	82
5	In Vitro – In Vivo Correlation in Skin Permeation. <i>Pharmaceutical Research</i> , 2014, 31, 394-400.	3.5	80
6	Polymeric Nano-Encapsulation of Curcumin Enhances its Anti-Cancer Activity in Breast (MDA-MB231) and Lung (A549) Cancer Cells Through Reduction in Expression of HIF-1 α and Nuclear p65 (Rel A). <i>Current Drug Delivery</i> , 2018, 15, 286-295.	1.6	60
7	Influence of membrane – solvent – solute interactions on solute permeation in model membranes. <i>International Journal of Pharmaceutics</i> , 2007, 336, 108-114.	5.2	58
8	The influence of volatile solvents on transport across model membranes and human skin. <i>International Journal of Pharmaceutics</i> , 2012, 435, 38-49.	5.2	58
9	Drug crystallization – implications for topical and transdermal delivery. <i>Expert Opinion on Drug Delivery</i> , 2016, 13, 817-830.	5.0	56
10	Influence of niacinamide containing formulations on the molecular and biophysical properties of the stratum corneum. <i>International Journal of Pharmaceutics</i> , 2013, 441, 192-201.	5.2	53
11	Topical and transdermal delivery of caffeine. <i>International Journal of Pharmaceutics</i> , 2015, 490, 155-164.	5.2	53
12	Oxybutynin permeation in skin: The influence of drug and solvent activity. <i>International Journal of Pharmaceutics</i> , 2010, 384, 67-72.	5.2	52
13	Influence of Aqueous Cream BP on corneocyte size, maturity, skin protease activity, protein content and transepidermal water loss. <i>British Journal of Dermatology</i> , 2011, 164, 1304-1310.	1.5	52
14	Influence of membrane – solvent – solute interactions on solute permeation in skin. <i>International Journal of Pharmaceutics</i> , 2007, 340, 65-70.	5.2	50
15	Influence of skin penetration enhancers on skin barrier function and skin protease activity. <i>European Journal of Pharmaceutical Sciences</i> , 2014, 51, 118-122.	4.0	49
16	A comparative study of the in vitro permeation of ibuprofen in mammalian skin, the PAMPA model and silicone membrane. <i>International Journal of Pharmaceutics</i> , 2016, 505, 14-19.	5.2	49
17	Caffeic acid phenethyl ester is protective in experimental ulcerative colitis via reduction in levels of pro-inflammatory mediators and enhancement of epithelial barrier function. <i>Inflammopharmacology</i> , 2018, 26, 561-569.	3.9	47
18	The transdermal delivery of fentanyl. <i>European Journal of Pharmaceutics and Biopharmaceutics</i> , 2013, 84, 449-455.	4.3	46

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19	Topical therapies for skin cancer and actinic keratosis. <i>European Journal of Pharmaceutical Sciences</i> , 2015, 77, 279-289.	4.0	46
20	Early-life regional and temporal variation in filaggrin-derived natural moisturizing factor, filaggrin-processing enzyme activity, corneocyte phenotypes and plasmin activity: implications for atopic dermatitis. <i>British Journal of Dermatology</i> , 2018, 179, 431-441.	1.5	43
21	A fundamental investigation into aspects of the physiology and biochemistry of the stratum corneum in subjects with sensitive skin. <i>International Journal of Cosmetic Science</i> , 2017, 39, 2-10.	2.6	42
22	Depth profiling of stratum corneum biophysical and molecular properties. <i>British Journal of Dermatology</i> , 2011, 164, 957-965.	1.5	40
23	Nanoparticles and the skin – applications and limitations. <i>Journal of Microencapsulation</i> , 2011, 28, 709-716.	2.8	37
24	Formulation of diclofenac for dermal delivery. <i>International Journal of Pharmaceutics</i> , 2014, 473, 607-616.	5.2	37
25	Developing Transdermal Applications of Ketorolac Tromethamine Entrapped in Stimuli Sensitive Block Copolymer Hydrogels. <i>Pharmaceutical Research</i> , 2017, 34, 1728-1740.	3.5	37
26	Rational formulation design. <i>International Journal of Cosmetic Science</i> , 2012, 34, 496-501.	2.6	36
27	Rotigotine: The first new chemical entity for transdermal drug delivery. <i>European Journal of Pharmaceutics and Biopharmaceutics</i> , 2014, 88, 586-593.	4.3	35
28	Advanced topical formulations (ATF). <i>International Journal of Pharmaceutics</i> , 2016, 514, 52-57.	5.2	35
29	A comparison of the in vitro permeation of niacinamide in mammalian skin and in the Parallel Artificial Membrane Permeation Assay (PAMPA) model. <i>International Journal of Pharmaceutics</i> , 2019, 556, 142-149.	5.2	35
30	Transdermal delivery of testosterone. <i>European Journal of Pharmaceutics and Biopharmaceutics</i> , 2015, 92, 42-48.	4.3	34
31	The role of vehicle interactions on permeation of an active through model membranes and human skin. <i>International Journal of Cosmetic Science</i> , 2012, 34, 536-545.	2.6	32
32	Percutaneous absorption of salicylic acid – in vitro and in vivo studies. <i>International Journal of Pharmaceutics</i> , 2014, 475, 471-474.	5.2	32
33	Passive Transdermal Drug Delivery Systems. <i>American Journal of Drug Delivery</i> , 2006, 4, 153-160.	0.6	28
34	Topical delivery of anthramycin I. Influence of neat solvents. <i>European Journal of Pharmaceutical Sciences</i> , 2017, 104, 188-195.	4.0	28
35	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> , 2017, 111, 16-25.	4.3	28
36	Effect of allergens and irritants on levels of natural moisturizing factor and corneocyte morphology. <i>Contact Dermatitis</i> , 2017, 76, 287-295.	1.4	27

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37	Effect of different alcohols on stratum corneum kallikrein 5 and phospholipase A ₂ together with epidermal keratinocytes and skin irritation. <i>International Journal of Cosmetic Science</i> , 2017, 39, 188-196.	2.6	27
38	3-O-ethyl-L-ascorbic acid: Characterisation and investigation of single solvent systems for delivery to the skin. <i>International Journal of Pharmaceutics: X</i> , 2019, 1, 100025.	1.6	25
39	A Hexa-Herbal TCM Decoction Used to Treat Skin Inflammation: An LC-MS-Based Phytochemical Analysis. <i>Planta Medica</i> , 2016, 82, 1134-1141.	1.3	24
40	Topical delivery of climbazole to mammalian skin. <i>International Journal of Pharmaceutics</i> , 2018, 549, 317-324.	5.2	23
41	A novel non-invasive diagnostic sampling technique for cutaneous leishmaniasis. <i>PLoS Neglected Tropical Diseases</i> , 2017, 11, e0005750.	3.0	23
42	Application of three-dimensional printing for colon targeted drug delivery systems. <i>International Journal of Pharmaceutical Investigation</i> , 2017, 7, 47.	0.3	23
43	In Vitro–In Vivo Correlation in Dermal Delivery: The Role of Excipients. <i>Pharmaceutics</i> , 2021, 13, 542.	4.5	22
44	Quantitative estimation of the effects of bile salt surfactant systems on insulin stability and permeability in the rat intestine using a mass balance model. <i>Journal of Pharmacy and Pharmacology</i> , 2010, 57, 169-175.	2.4	21
45	Formulation issues associated with transdermal fentanyl delivery. <i>International Journal of Pharmaceutics</i> , 2011, 416, 155-9.	5.2	21
46	The effects of heat on skin barrier function and in vivo dermal absorption. <i>International Journal of Pharmaceutics</i> , 2014, 464, 145-151.	5.2	21
47	Variation in the activities of late stage filaggrin processing enzymes, calpain-1 and bleomycin hydrolase, together with pyrrolidone carboxylic acid levels, corneocyte phenotypes and plasmin activities in non-sun-exposed and sun-exposed facial stratum corneum of different ethnicities. <i>International Journal of Cosmetic Science</i> , 2016, 38, 567-575.	2.6	21
48	Topical delivery of niacinamide: Influence of neat solvents. <i>International Journal of Pharmaceutics</i> , 2020, 579, 119137.	5.2	20
49	Variation in stratum corneum protein content as a function of anatomical site and ethnic group. <i>International Journal of Cosmetic Science</i> , 2016, 38, 224-231.	2.6	19
50	Preparation, Characterisation, and Topical Delivery of Terbinafine. <i>Pharmaceutics</i> , 2019, 11, 548.	4.5	19
51	Monitoring Drug Crystallization in Percutaneous Penetration Using Localized Nanothermal Analysis and Photothermal Microspectroscopy. <i>Molecular Pharmaceutics</i> , 2019, 16, 359-370.	4.6	19
52	Franz Cell Diffusion Testing and Quantitative Confocal Raman Spectroscopy: In Vitro-In Vivo Correlation. <i>Pharmaceutics</i> , 2020, 12, 887.	4.5	19
53	Chemical ultraviolet absorbers topically applied in a skin barrier mimetic formulation remain in the outer stratum corneum of porcine skin. <i>International Journal of Pharmaceutics</i> , 2016, 510, 250-254.	5.2	18
54	An Investigation of the Influence of PEG 400 and PEG-6-Caprylic/Capric Glycerides on Dermal Delivery of Niacinamide. <i>Polymers</i> , 2020, 12, 2907.	4.5	17

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55	Ion Pairs for Transdermal and Dermal Drug Delivery: A Review. <i>Pharmaceutics</i> , 2021, 13, 909.	4.5	17
56	Effect of intestinal fluid flux on ibuprofen absorption in the rat intestine. <i>International Journal of Pharmaceutics</i> , 2006, 309, 60-66.	5.2	16
57	In vitro permeation and disposition of niacinamide in silicone and porcine skin of skin barrier-mimetic formulations. <i>International Journal of Pharmaceutics</i> , 2017, 520, 158-162.	5.2	15
58	Comparison of post-emulsification freeze drying or spray drying processes for the microencapsulation of plasmid DNA. <i>Journal of Pharmacy and Pharmacology</i> , 2010, 57, 831-838.	2.4	14
59	Topical delivery of hexamidine. <i>International Journal of Pharmaceutics</i> , 2016, 506, 332-339.	5.2	14
60	Investigation of binary and ternary solvent systems for dermal delivery of methadone. <i>International Journal of Pharmaceutics</i> , 2020, 586, 119538.	5.2	14
61	Huygens principle based UWB microwave imaging method for skin cancer detection. , 2016, , .		13
62	A new approach to assess the effect of photodamage on corneocyte envelope maturity using combined hydrophobicity and mechanical fragility assays. <i>International Journal of Cosmetic Science</i> , 2018, 40, 207-216.	2.6	13
63	Topical delivery of anthramycin II. Influence of binary and ternary solvent systems. <i>European Journal of Pharmaceutical Sciences</i> , 2018, 121, 59-64.	4.0	13
64	Skin Barrier Function in Infants: Update and Outlook. <i>Pharmaceutics</i> , 2022, 14, 433.	4.5	12
65	Paracellular and transcellular pathways facilitate insulin permeability in rat gut. <i>Journal of Pharmacy and Pharmacology</i> , 2010, 58, 271-275.	2.4	11
66	Assessment and prevention of gastrointestinal toxicity of non-steroidal anti-inflammatory drugs. <i>Journal of Pharmacy and Pharmacology</i> , 2010, 58, 1295-1304.	2.4	11
67	Influence of lidocaine hydrochloride and penetration enhancers on the barrier function of human skin. <i>International Journal of Pharmaceutics</i> , 2014, 477, 416-420.	5.2	11
68	The importance of 12R α -lipoxygenase and transglutaminase activities in the hydration α -dependent <i>in vivo</i> maturation of corneocyte envelopes. <i>International Journal of Cosmetic Science</i> , 2019, 41, 563-578.	2.6	11
69	Profiling of drug crystallization in the skin. <i>Expert Opinion on Drug Delivery</i> , 2020, 17, 1321-1334.	5.0	11
70	Preparation, characterization and buccal permeation of naratriptan. <i>International Journal of Pharmaceutics</i> , 2015, 493, 146-151.	5.2	10
71	Nano-thermal imaging of the stratum corneum and its potential use for understanding of the mechanism of skin penetration enhancer. <i>Thermochimica Acta</i> , 2017, 655, 278-283.	2.7	10
72	Disentangling the Complexity of a Hexa-Herbal Chinese Medicine Used for Inflammatory Skin Conditions α Predicting the Active Components by Combining LC-MS-Based Metabolite Profiles and <i>in vitro</i> Pharmacology. <i>Frontiers in Pharmacology</i> , 2018, 9, 1091.	3.5	10

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73	Preparation, Characterization and Dermal Delivery of Methadone. <i>Pharmaceutics</i> , 2019, 11, 509.	4.5	10
74	Topical Delivery of Niacinamide: Influence of Binary and Ternary Solvent Systems. <i>Pharmaceutics</i> , 2019, 11, 668.	4.5	10
75	Thermal analysis of mammalian stratum corneum using differential scanning calorimetry for advancing skin research and drug delivery. <i>International Journal of Pharmaceutics</i> , 2022, 614, 121447.	5.2	10
76	Transdermal delivery of Angiotensin Converting Enzyme inhibitors. <i>European Journal of Pharmaceutics and Biopharmaceutics</i> , 2014, 88, 1-7.	4.3	9
77	Characterization and topical delivery of phenylethyl resorcinol. <i>International Journal of Cosmetic Science</i> , 2019, 41, 479-488.	2.6	9
78	12Râ€liipoxygenase activity is reduced in photodamaged facial stratum corneum. A novel activity assay indicates a key function in corneocyte maturation. <i>International Journal of Cosmetic Science</i> , 2019, 41, 274-280.	2.6	9
79	Topical Delivery of 3-O-ethyl l-ascorbic Acid from Complex Solvent Systems. <i>Scientia Pharmaceutica</i> , 2020, 88, 19.	2.0	9
80	3Dâ€printed Franz type diffusion cells. <i>International Journal of Cosmetic Science</i> , 2018, 40, 604-609.	2.6	7
81	A comparison of the <i>in vitro</i> permeation of 3â€ethylâ€ascorbic acid in human skin and in a living skin equivalent (LabSkinâ„©). <i>International Journal of Cosmetic Science</i> , 2021, 43, 107-112.	2.6	7
82	Advanced structural characterisation of pharmaceuticals using nano-thermal analysis (nano-TA). <i>Advanced Drug Delivery Reviews</i> , 2022, 180, 114077.	13.7	6
83	Comparative assessment of two indices of drug induced permeability changes in the perfused rat intestine. <i>International Journal of Pharmaceutics</i> , 2006, 312, 196-199.	5.2	5
84	Preparation and characterisation of hexamidine salts. <i>International Journal of Pharmaceutics</i> , 2015, 493, 404-411.	5.2	5
85	Modeling of a natural lipstick formulation using an artificial neural network. <i>RSC Advances</i> , 2015, 5, 68632-68638.	3.6	4
86	Oral transmucosal delivery of naratriptan. <i>International Journal of Pharmaceutics</i> , 2016, 514, 263-269.	5.2	4
87	Use of buccal morphine in the management of pain in children with life-limiting conditions: Results of a laboratory study. <i>Palliative Medicine</i> , 2018, 32, 554-558.	3.1	4
88	A proofâ€ofâ€principle study comparing barrier function and cell morphology in face and body skin. <i>International Journal of Cosmetic Science</i> , 2019, 41, 613-616.	2.6	4
89	Topical niacinamide enhances hydrophobicity and resilience of corneocyte envelopes on different facial locations. <i>International Journal of Cosmetic Science</i> , 2020, 42, 632-636.	2.6	4
90	Dermal delivery of amitriptyline for topical analgesia. <i>Drug Delivery and Translational Research</i> , 2022, 12, 805-815.	5.8	4

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91	Use of LC-MS analysis to elucidate by-products of niacinamide transformation following <i>in vitro</i> skin permeation studies. International Journal of Cosmetic Science, 2018, 40, 525-529.	2.6	3
92	A Preliminary Investigation of Additive Manufacture to Fabricate Human Nail Plate Surrogates for Pharmaceutical Testing. Pharmaceutics, 2019, 11, 250.	4.5	3
93	In Vivo Human Hair Hydration Measurements by Using Opto-Thermal Radiometry. International Journal of Thermophysics, 2019, 40, 1.	2.1	3
94	3D-Printed Franz cells – update on optimization of manufacture and evaluation. International Journal of Cosmetic Science, 2020, 42, 415-419.	2.6	3
95	Letter to the Editor Regarding “An Investigation of the Skin Barrier Restoring Effects of a Cream and Lotion Containing Ceramides in a Multi-Vesicular Emulsion in People with Dry, Eczema-Prone Skin: The RESTORE Study Phase 1”. Dermatology and Therapy, 2021, 11, 2245-2248.	3.0	3
96	Influence of post-emulsification drying processes on the microencapsulation of Human Serum Albumin. International Journal of Pharmaceutics, 2006, 307, 16-22.	5.2	2
97	Spatial resolution of drug crystallisation in the skin by X-ray micro-computed tomography. Micron, 2021, 145, 103045.	2.2	2
98	Burns with emollients. BMJ, The, 2022, 376, e066102.	6.0	2
99	Percutaneous Penetration Paradigms: The Contribution of Jonathan Hadgraft. Skin Pharmacology and Physiology, 2013, 26, 277-285.	2.5	1
100	Hexamidine salts – applications in skin health and personal care products. International Journal of Cosmetic Science, 2017, 39, 361-365.	2.6	1
101	Society of cosmetic scientists - birthday greetings!. International Journal of Cosmetic Science, 2013, 35, 411-411.	2.6	0
102	Comment on “Clinical significance of the water retention and barrier function-improving capabilities of ceramide-containing formulations: A qualitative review”. Journal of Dermatology, 2022, 49, .	1.2	0