

Mara Begoa Delgado Charro

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97
papers

3,265
citations

33
h-index

53
g-index

103
ext. papers

3,603
ext. citations

6.2
avg, IF

5.22
L-index

#	Paper	IF	Citations
97	Iontophoresis: electrorepulsion and electroosmosis. <i>Journal of Controlled Release</i> , 2000 , 64, 129-32	11.7	235
96	Microemulsions for topical delivery of 8-methoxsalen. <i>Journal of Controlled Release</i> , 2000 , 69, 209-18	11.7	157
95	Delivery of a hydrophilic solute through the skin from novel microemulsion systems. <i>European Journal of Pharmaceutics and Biopharmaceutics</i> , 1997 , 43, 37-42	5.7	149
94	Characterization of the iontophoretic permselectivity properties of human and pig skin. <i>Journal of Controlled Release</i> , 2001 , 70, 213-7	11.7	144
93	Objective assessment of nanoparticle disposition in mammalian skin after topical exposure. <i>Journal of Controlled Release</i> , 2012 , 162, 201-7	11.7	118
92	Contributions of electromigration and electroosmosis to iontophoretic drug delivery. <i>Pharmaceutical Research</i> , 2001 , 18, 1701-8	4.5	106
91	Reverse iontophoresis for non-invasive transdermal monitoring. <i>Physiological Measurement</i> , 2004 , 25, R35-50	2.9	97
90	Characterization of convective solvent flow during iontophoresis. <i>Pharmaceutical Research</i> , 1994 , 11, 929-35	4.5	88
89	Frequency and thermal effects on the enhancement of transdermal transport by sonophoresis. <i>Journal of Controlled Release</i> , 2003 , 88, 85-94	11.7	80
88	Noninvasive and minimally invasive methods for transdermal glucose monitoring. <i>Diabetes Technology and Therapeutics</i> , 2005 , 7, 174-97	8.1	76
87	Noninvasive glucose monitoring by reverse iontophoresis in vivo: application of the internal standard concept. <i>Clinical Chemistry</i> , 2004 , 50, 1383-90	5.5	75
86	Passive and iontophoretic transdermal penetration of methotrexate. <i>International Journal of Pharmaceutics</i> , 2001 , 212, 101-7	6.5	67
85	Iontophoretic delivery of 5-aminolevulinic acid (ALA): effect of pH. <i>Pharmaceutical Research</i> , 2001 , 18, 311-5	4.5	64
84	Effective use of transdermal drug delivery in children. <i>Advanced Drug Delivery Reviews</i> , 2014 , 73, 63-82	18.5	57
83	Electroosmosis in transdermal iontophoresis: implications for noninvasive and calibration-free glucose monitoring. <i>Biophysical Journal</i> , 2004 , 87, 3344-50	2.9	56
82	Optimization of aminolevulinic acid delivery by iontophoresis. <i>Journal of Controlled Release</i> , 2003 , 88, 65-70	11.7	54
81	Lithium monitoring by reverse iontophoresis in vivo. <i>Clinical Chemistry</i> , 2004 , 50, 2091-100	5.5	53

80	The determination of stratum corneum thickness: an alternative approach. <i>European Journal of Pharmaceutics and Biopharmaceutics</i> , 2008 , 69, 861-70	5.7	51
79	Trans-scleral iontophoretic delivery of low molecular weight therapeutics. <i>Journal of Controlled Release</i> , 2010 , 147, 225-31	11.7	48
78	Hydration and N-acetyl-l-cysteine alter the microstructure of human nail and bovine hoof: implications for drug delivery. <i>Journal of Controlled Release</i> , 2011 , 156, 337-44	11.7	47
77	Quantitative structure-permeation relationship for iontophoretic transport across the skin. <i>Journal of Controlled Release</i> , 2007 , 122, 165-72	11.7	47
76	Thermogelling hydrogels of cyclodextrin/poloxamer polypseudorotaxanes as aqueous-based nail lacquers: application to the delivery of triamcinolone acetonide and ciclopirox olamine. <i>European Journal of Pharmaceutics and Biopharmaceutics</i> , 2013 , 83, 370-7	5.7	45
75	Enhanced delivery of 5-aminolevulinic acid esters by iontophoresis in vitro. <i>Photochemistry and Photobiology</i> , 2003 , 77, 304-8	3.6	45
74	Iontophoretic delivery of nafarelin across the skin. <i>International Journal of Pharmaceutics</i> , 1995 , 117, 165-172	6.5	42
73	Iontophoretic transport across the skin. <i>Skin Pharmacology and Physiology</i> , 2001 , 14 Suppl 1, 35-40	3	41
72	Iontophoretic delivery of ropinirole hydrochloride: effect of current density and vehicle formulation. <i>Pharmaceutical Research</i> , 2001 , 18, 1714-20	4.5	40
71	Optimizing iontophoretic drug delivery: identification and distribution of the charge-carrying species. <i>Pharmaceutical Research</i> , 2001 , 18, 1709-13	4.5	40
70	Transport numbers in transdermal iontophoresis. <i>Biophysical Journal</i> , 2006 , 90, 2822-30	2.9	39
69	A non-rewarding, non-aversive buprenorphine/naltrexone combination attenuates drug-primed reinstatement to cocaine and morphine in rats in a conditioned place preference paradigm. <i>Addiction Biology</i> , 2014 , 19, 575-86	4.6	35
68	Transdermal reverse iontophoresis of valproate: a noninvasive method for therapeutic drug monitoring. <i>Pharmaceutical Research</i> , 2003 , 20, 1508-13	4.5	35
67	Reverse iontophoresis for noninvasive glucose monitoring: the internal standard concept. <i>Journal of Pharmaceutical Sciences</i> , 2003 , 92, 2295-302	3.9	34
66	Iontophoresis of nafarelin: Effects of current density and concentration on electrotransport in vitro. <i>Journal of Controlled Release</i> , 1995 , 35, 35-40	11.7	34
65	Molecular diffusion in the human nail measured by stimulated Raman scattering microscopy. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2015 , 112, 7725-30	11.5	33
64	Transdermal iontophoresis of ranitidine: an opportunity in paediatric drug therapy. <i>International Journal of Pharmaceutics</i> , 2012 , 435, 27-32	6.5	33
63	Non-invasive monitoring of phenytoin by reverse iontophoresis. <i>European Journal of Pharmaceutical Sciences</i> , 2004 , 22, 427-33	5.1	33

62	Iontophoresis-targeted, follicular delivery of minoxidil sulfate for the treatment of alopecia. <i>Journal of Pharmaceutical Sciences</i> , 2013 , 102, 1488-94	3.9	32
61	Iontophoretic permselectivity of mammalian skin: characterization of hairless mouse and porcine membrane models. <i>Pharmaceutical Research</i> , 1998 , 15, 984-7	4.5	30
60	Topical bioavailability of diclofenac from locally-acting, dermatological formulations. <i>International Journal of Pharmaceutics</i> , 2017 , 529, 55-64	6.5	29
59	Novel beads made of alpha-cyclodextrin and oil for topical delivery of a lipophilic drug. <i>Pharmaceutical Research</i> , 2008 , 25, 435-40	4.5	29
58	Drug delivery into microneedle-porated nails from nanoparticle reservoirs. <i>Journal of Controlled Release</i> , 2015 , 220, 98-106	11.7	28
57	In vivo transungual iontophoresis: effect of DC current application on ionic transport and on transonychial water loss. <i>Journal of Controlled Release</i> , 2009 , 140, 117-25	11.7	28
56	Prediction of iontophoretic transport across the skin. <i>Journal of Controlled Release</i> , 2006 , 111, 362-7	11.7	28
55	In vitro optimization of dexamethasone phosphate delivery by iontophoresis. <i>Physical Therapy</i> , 2008 , 88, 1177-85	3.3	27
54	Dermatopharmacokinetics: factors influencing drug clearance from the stratum corneum. <i>Pharmaceutical Research</i> , 2009 , 26, 865-71	4.5	26
53	Iontophoretic drug delivery across the nail. <i>Expert Opinion on Drug Delivery</i> , 2012 , 9, 91-103	8	25
52	Reverse iontophoresis as a noninvasive tool for lithium monitoring and pharmacokinetic profiling. <i>Pharmaceutical Research</i> , 2004 , 21, 1214-22	4.5	25
51	Iontophoresis of minoxidil sulphate loaded microparticles, a strategy for follicular drug targeting?. <i>Colloids and Surfaces B: Biointerfaces</i> , 2015 , 134, 408-12	6	24
50	Development and in vitro evaluation of lipid nanoparticle-based dressings for topical treatment of chronic wounds. <i>International Journal of Pharmaceutics</i> , 2015 , 490, 404-11	6.5	24
49	Extraction and quantification of amino acids in human stratum corneum in vivo. <i>British Journal of Dermatology</i> , 2010 , 163, 458-65	4	24
48	Extraction of amino acids by reverse iontophoresis in vivo. <i>European Journal of Pharmaceutics and Biopharmaceutics</i> , 2009 , 72, 226-31	5.7	24
47	Monitoring of urea and potassium by reverse iontophoresis in vitro. <i>Pharmaceutical Research</i> , 2007 , 24, 1131-7	4.5	22
46	Design and evaluation of buccoadhesive metoclopramide hydrogels composed of poly(acrylic acid) crosslinked with sucrose. <i>International Journal of Pharmaceutics</i> , 1993 , 100, 65-70	6.5	22
45	Iontophoresis of dexamethasone phosphate: competition with chloride ions. <i>Journal of Controlled Release</i> , 2008 , 131, 41-6	11.7	21

44	Simultaneous extraction of urea and glucose by reverse iontophoresis in vivo. <i>Pharmaceutical Research</i> , 2004 , 21, 1805-10	4.5	21
43	In vivo iontophoretic administration of ropinirole hydrochloride. <i>Journal of Pharmaceutical Sciences</i> , 2003 , 92, 2441-8	3.9	20
42	Generating power from transdermal extracts using a multi-electrode miniature enzymatic fuel cell. <i>Biosensors and Bioelectronics</i> , 2016 , 78, 411-417	11.8	18
41	Reverse iontophoresis of L-lactate: in vitro and in vivo studies. <i>Journal of Pharmaceutical Sciences</i> , 2007 , 96, 3457-65	3.9	18
40	Electromigration of ions across the skin: determination and prediction of transport numbers. <i>Journal of Pharmaceutical Sciences</i> , 2006 , 95, 561-9	3.9	18
39	Passive and iontophoretic transdermal delivery of phenobarbital: Implications in paediatric therapy. <i>International Journal of Pharmaceutics</i> , 2012 , 435, 76-82	6.5	17
38	Transungual iontophoresis of lithium and sodium: effect of pH and co-ion competition on cationic transport numbers. <i>Journal of Controlled Release</i> , 2010 , 144, 168-74	11.7	17
37	Bioequivalence Methodologies for Topical Drug Products: In Vitro and Ex Vivo Studies with a Corticosteroid and an Anti-Fungal Drug. <i>Pharmaceutical Research</i> , 2017 , 34, 730-737	4.5	16
36	Influence of glycerol concentration and carbopol molecular weight on swelling and drug release characteristics of metoclopramide hydrogels. <i>International Journal of Pharmaceutics</i> , 1994 , 104, 107-113	6.5	16
35	Reverse iontophoresis of amino acids: identification and separation of stratum corneum and subdermal sources in vitro. <i>Pharmaceutical Research</i> , 2009 , 26, 2630-8	4.5	14
34	Effect of Penetration Enhancers on Drug Nail Permeability from Cyclodextrin/Poloxamer-Soluble Polypseudorotaxane-Based Nail Lacquers. <i>Pharmaceutics</i> , 2018 , 10,	6.4	14
33	Influence of Chemical Enhancers and Iontophoresis on the In Vitro Transdermal Permeation of Propranolol: Evaluation by Dermatopharmacokinetics. <i>Pharmaceutics</i> , 2018 , 10,	6.4	14
32	The Biosimilar Landscape: An Overview of Regulatory Approvals by the EMA and FDA. <i>Pharmaceutics</i> , 2020 , 13,	6.4	13
31	Recent advances on transdermal iontophoretic drug delivery and non-invasive sampling. <i>Journal of Drug Delivery Science and Technology</i> , 2009 , 19, 75-88	4.5	12
30	Electroosmotic transport of mannitol across human nail during constant current iontophoresis. <i>Journal of Pharmacy and Pharmacology</i> , 2010 , 62, 721-9	4.8	12
29	Enhancement of tioconazole unguinal delivery: Combining nanocapsule formulation and nail poration approaches. <i>International Journal of Pharmaceutics</i> , 2018 , 535, 237-244	6.5	12
28	Simultaneous Transdermal Delivery of Buprenorphine Hydrochloride and Naltrexone Hydrochloride by Iontophoresis. <i>Molecular Pharmaceutics</i> , 2019 , 16, 2808-2816	5.6	10
27	Microstructural alterations in the onychomycotic and psoriatic nail: Relevance in drug delivery. <i>European Journal of Pharmaceutics and Biopharmaceutics</i> , 2018 , 128, 48-56	5.7	10

26	Assessment of iontophoretic and passive unguinal penetration by laser scanning confocal microscopy. <i>Pharmaceutical Research</i> , 2012 , 29, 3464-74	4.5	10
25	Extraction of amino acids by reverse iontophoresis: simulation of therapeutic monitoring in vitro. <i>European Journal of Pharmaceutics and Biopharmaceutics</i> , 2008 , 70, 908-13	5.7	10
24	Influence of Cyclodextrin concentration and polyacrylic acid molecular weight on swelling and release characteristics of metoclopramide-containing hydrogels. <i>International Journal of Pharmaceutics</i> , 1993 , 100, 25-31	6.5	10
23	Topical bio(in)equivalence of metronidazole formulations in vivo. <i>International Journal of Pharmaceutics</i> , 2018 , 541, 167-172	6.5	9
22	Effects of iontophoresis, hydration, and permeation enhancers on human nail plate: infrared and impedance spectroscopy assessment. <i>Pharmaceutical Research</i> , 2013 , 30, 1652-62	4.5	9
21	Textile-based non-invasive lithium drug monitoring: A proof-of-concept study for wearable sensing. <i>Biosensors and Bioelectronics</i> , 2020 , 150, 111897	11.8	9
20	Reverse iontophoresis of lithium: electrode formulation using a thermoreversible polymer. <i>European Journal of Pharmaceutics and Biopharmaceutics</i> , 2005 , 59, 237-40	5.7	8
19	Effect on Nail Structure and Transungual Permeability of the Ethanol and Poloxamer Ratio from Cyclodextrin-Soluble Polypseudorotaxanes Based Nail Lacquer. <i>Pharmaceutics</i> , 2018 , 10,	6.4	7
18	Transdermal flux predictions for selected selective oestrogen receptor modulators (SERMs): comparison with experimental results. <i>Journal of Controlled Release</i> , 2013 , 172, 601-6	11.7	6
17	Predicting topical drug clearance from the skin. <i>Drug Delivery and Translational Research</i> , 2021 , 11, 729-740	11.0	6
16	Is the Skin Absorption of Hydrocortisone Modified by the Variability in Dosing Topical Products?. <i>Pharmaceutics</i> , 2018 , 10,	6.4	5
15	Potential of iontophoresis as a drug delivery method for midazolam in pediatrics. <i>European Journal of Pharmaceutical Sciences</i> , 2019 , 128, 137-143	5.1	5
14	A mechanistic approach to modelling the formation of a drug reservoir in the skin. <i>Mathematical Biosciences</i> , 2016 , 281, 36-45	3.9	4
13	Iontophoretic transdermal sampling of iohexol as a non-invasive tool to assess glomerular filtration rate. <i>Pharmaceutical Research</i> , 2015 , 32, 590-603	4.5	4
12	Richard Guy and his collaborators: Cracking the skin code. <i>Skin Pharmacology and Physiology</i> , 2013 , 26, 302-12	3	3
11	Cardiovascular Paediatric Medicines Development: Have Paediatric Investigation Plans Lost Heart?. <i>Pharmaceutics</i> , 2020 , 12,	6.4	3
10	Evaluation of an Explanted Porcine Skin Model to Investigate Infection with the Dermatophyte <i>Trichophyton rubrum</i> . <i>Mycopathologia</i> , 2020 , 185, 233-243	2.9	2
9	Comparison of drug release from poly(lactide-co-glycolide) microspheres and novel fibre formulations. <i>Journal of Biomaterials Applications</i> , 2016 , 30, 1142-53	2.9	2

8	Modelling Formation of a Drug Reservoir in the Stratum Corneum and Its Impact on Drug Monitoring Using Reverse Iontophoresis. <i>Computational and Mathematical Methods in Medicine</i> , 2010 , 11, 353-368	2.8	2
7	Enhanced Delivery of 5-Aminolevulinic Acid Esters by Iontophoresis In Vitro. <i>Photochemistry and Photobiology</i> , 2007 , 77, 304-308	3.6	2
6	Skin pharmacokinetics of diclofenac and co-delivered functional excipients.. <i>International Journal of Pharmaceutics</i> , 2022 , 614, 121469	6.5	2
5	Iontophoresis: Applications in Drug Delivery and Noninvasive Monitoring * 2002 , 199-224		2
4	Skin Pharmacokinetics of Transdermal Scopolamine: Measurements and Modeling. <i>Molecular Pharmaceutics</i> , 2021 , 18, 2714-2723	5.6	2
3	Iontophoresis for Therapeutic Drug Delivery and Non-invasive Sampling Applications 2017 , 77-101		1
2	Assessment of dermal bioavailability: predicting the input function for topical glucocorticoids using stratum corneum sampling. <i>Drug Delivery and Translational Research</i> , 2021 , 1	6.2	1
1	Modelling formation of a drug reservoir in the stratum corneum and its impact on drug monitoring using reverse iontophoresis. <i>Computational and Mathematical Methods in Medicine</i> , 2010 , 11, 353-68	2.8	1