

David J Moore

List of Publications by Year in descending order

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83
papers

3,107
citations

126708

33
h-index

161609

54
g-index

86
all docs

86
docs citations

86
times ranked

2631
citing authors

#	ARTICLE	IF	CITATIONS
1	Cleansing without compromise: the impact of cleansers on the skin barrier and the technology of mild cleansing. <i>Dermatologic Therapy</i> , 2004, 17, 16-25.	0.8	280
2	Determination of molecular conformation and permeation in skin via IR spectroscopy, microscopy, and imaging. <i>Biochimica Et Biophysica Acta - Biomembranes</i> , 2006, 1758, 923-933.	1.4	185
3	Vibrational spectroscopic studies of lipid domains in biomembranes and model systems. <i>Chemistry and Physics of Lipids</i> , 1998, 96, 141-157.	1.5	172
4	FTIR Spectroscopy Studies of the Conformational Order and Phase Behavior of Ceramides. <i>Journal of Physical Chemistry B</i> , 1997, 101, 8933-8940.	1.2	159
5	Infrared Analysis of the Mineral and Matrix in Bones of Osteonectin-Null Mice and Their Wildtype Controls. <i>Journal of Bone and Mineral Research</i> , 2003, 18, 1005-1011.	3.1	114
6	Lipid Domains and Orthorhombic Phases in Model Stratum Corneum: Evidence from Fourier Transform Infrared Spectroscopy Studies. <i>Biochemical and Biophysical Research Communications</i> , 1997, 231, 797-801.	1.0	109
7	Phytosphingosine and Sphingosine Ceramide Headgroup Hydrogen Bonding: Structural Insights through Thermotropic Hydrogen/Deuterium Exchange. <i>Journal of Physical Chemistry B</i> , 2001, 105, 9355-9362.	1.2	96
8	Vibrational microscopy and imaging of skin: from single cells to intact tissue. <i>Analytical and Bioanalytical Chemistry</i> , 2007, 387, 1591-1599.	1.9	91
9	Fourier transform infrared spectroscopy and differential scanning calorimetry studies of fatty acid homogeneous ceramide 2. <i>Biochimica Et Biophysica Acta - Biomembranes</i> , 2000, 1468, 293-303.	1.4	90
10	The chemistry, function and (patho)physiology of stratum corneum barrier ceramides. <i>International Journal of Cosmetic Science</i> , 2017, 39, 366-372.	1.2	62
11	Erythrocyte Peroxidation: Quantitation by Fourier Transform Infrared Spectroscopy. <i>Analytical Biochemistry</i> , 1994, 218, 118-123.	1.1	61
12	Infrared microspectroscopic imaging maps the spatial distribution of exogenous molecules in skin. <i>Journal of Biomedical Optics</i> , 2003, 8, 185.	1.4	59
13	Raman microspectroscopic and dynamic vapor sorption characterization of hydration in collagen and dermal tissue. <i>Biopolymers</i> , 2011, 95, 607-615.	1.2	59
14	Feasibility of Tracking Phospholipid Permeation into Skin Using Infrared and Raman Microscopic Imaging. <i>Journal of Investigative Dermatology</i> , 2005, 124, 622-632.	0.3	56
15	Imaging the Prodrug-to-Drug Transformation of a 5-Fluorouracil Derivative in Skin by Confocal Raman Microscopy. <i>Journal of Investigative Dermatology</i> , 2007, 127, 1205-1209.	0.3	56
16	pH-induced alterations in stratum corneum properties. <i>International Journal of Cosmetic Science</i> , 2003, 25, 103-112.	1.2	55
17	FTIR spectroscopic studies of lipid dynamics in phytosphingosine ceramide models of the stratum corneum lipid matrix. <i>Chemistry and Physics of Lipids</i> , 2005, 134, 51-58.	1.5	51
18	Adipocyte Fatty Acid-Binding Protein: Interaction with Phospholipid Membranes and Thermal Stability Studied by FTIR Spectroscopy. <i>Biochemistry</i> , 1997, 36, 8311-8317.	1.2	48

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19	Infrared spectroscopy and microscopic imaging of stratum corneum models and skin. <i>Physical Chemistry Chemical Physics</i> , 2000, 2, 4651-4657.	1.3	46
20	Conformational Order of Phospholipids Incorporated into Human Erythrocytes: An FTIR Spectroscopy Study. <i>Biochemistry</i> , 1996, 35, 229-235.	1.2	45
21	Kinetics of Membrane Raft Formation: Fatty Acid Domains in Stratum Corneum Lipid Models. <i>Journal of Physical Chemistry B</i> , 2006, 110, 2378-2386.	1.2	44
22	Infrared Determination of Conformational Order and Phase Behavior in Ceramides and Stratum Corneum Models. <i>Methods in Enzymology</i> , 2000, 312, 228-247.	0.4	43
23	Characterization of yield stress and slip behaviour of skin/hair care gels using steady flow and LAOS measurements and their correlation with sensorial attributes. <i>International Journal of Cosmetic Science</i> , 2012, 34, 193-201.	1.2	43
24	Three of Four Cysteines, Including That Responsible for Substrate Activation, Are Ionized at pH 6.0 in Yeast Pyruvate Decarboxylase: Evidence from Fourier Transform Infrared and Isoelectric Focusing Studies. <i>Biochemistry</i> , 1996, 35, 10249-10255.	1.2	42
25	Vibrational Microspectroscopy and Imaging of Molecular Composition and Structure During Human Corneocyte Maturation. <i>Journal of Investigative Dermatology</i> , 2006, 126, 1088-1094.	0.3	42
26	Quantitative IR studies of acyl chain conformational order in fatty acid homogeneous membranes of live cells of <i>Acholeplasma laidlawii</i> B. <i>Biochemistry</i> , 1993, 32, 6281-6287.	1.2	40
27	Adaptation to altered growth temperatures in <i>Acholeplasma laidlawii</i> B: Fourier transform infrared studies of acyl chain conformational order in live cells. <i>Biochemistry</i> , 1994, 33, 4080-4085.	1.2	40
28	Role of Ceramides 2 and 5 in the Structure of the Stratum Corneum Lipid Barrier. <i>International Journal of Cosmetic Science</i> , 1999, 21, 353-368.	1.2	39
29	Measuring changes in chemistry, composition, and molecular structure within hair fibers by infrared and Raman spectroscopic imaging. <i>Journal of Biomedical Optics</i> , 2011, 16, 056009.	1.4	39
30	Emollient molecule effects on the drying stresses in human stratum corneum. <i>British Journal of Dermatology</i> , 2010, 163, 695-703.	1.4	36
31	Permeation of dimyristoylphosphatidylcholine into skin: Structural and spatial information from IR and Raman microscopic imaging. <i>Vibrational Spectroscopy</i> , 2005, 38, 151-158.	1.2	35
32	Evaluation of the ROS Inhibiting Activity and Mitochondrial Targeting of Phenolic Compounds in Fibroblast Cells Model System and Enhancement of Efficiency by Natural Deep Eutectic Solvent (NADES) Formulation. <i>Pharmaceutical Research</i> , 2017, 34, 1134-1146.	1.7	35
33	Peroxidation of erythrocytes: FTIR spectroscopy studies of extracted lipids, isolated membranes, and intact cells. <i>Biospectroscopy</i> , 1995, 1, 133-140.	0.4	34
34	Insights into the Molecular Organization of Lipids in the Skin Barrier from Infrared Spectroscopy Studies of Stratum Corneum Lipid Models. <i>Acta Dermato-Venereologica</i> , 2000, 80, 16-22.	0.6	34
35	Biophysical Studies of Model Stratum Corneum Lipid Monolayers by Infrared Reflection Absorption Spectroscopy and Brewster Angle Microscopy. <i>Journal of Physical Chemistry B</i> , 2000, 104, 2159-2165.	1.2	34
36	Effect of cholesterol on miscibility and phase behavior in binary mixtures with synthetic ceramide 2 and octadecanoic acid. Infrared studies. <i>Biochimica Et Biophysica Acta - Biomembranes</i> , 2001, 1512, 345-356.	1.4	33

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37	Infrared Kinetic/Structural Studies of Barrier Reformation in Intact Stratum Corneum following Thermal Perturbation. <i>Applied Spectroscopy</i> , 2006, 60, 1399-1404.	1.2	32
38	Solid-State Stabilization of Γ -Chymotrypsin and Catalase with Carbohydrates. <i>Industrial & Engineering Chemistry Research</i> , 2006, 45, 5134-5147.	1.8	32
39	Percutaneous absorption of salicylic acid $\hat{\alpha}$ in vitro and in vivo studies. <i>International Journal of Pharmaceutics</i> , 2014, 475, 471-474.	2.6	32
40	Partially deuterated phospholipids as IR structure probes of conformational order in bulk and monolayer phases. <i>Journal of Molecular Structure</i> , 1996, 379, 227-239.	1.8	31
41	Infrared and Raman imaging spectroscopy of ex vivo skin. <i>International Journal of Cosmetic Science</i> , 2013, 35, 125-135.	1.2	29
42	Conformational Order of Specific Phospholipids in Human Erythrocytes: $\hat{\alpha}$ Correlations with Changes in Cell Shape. <i>Biochemistry</i> , 1997, 36, 660-664.	1.2	25
43	Some relationships between membrane phospholipid domains, conformational order, and cell shape in intact human erythrocytes. <i>Biochimica Et Biophysica Acta - Biomembranes</i> , 1999, 1415, 342-348.	1.4	25
44	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.	1.2	25
45	Study of surfactant $\hat{\alpha}$ skin interactions by skin impedance measurements. <i>International Journal of Cosmetic Science</i> , 2012, 34, 74-80.	1.2	23
46	The rational design of biomimetic skin barrier lipid formulations using biophysical methods. <i>International Journal of Cosmetic Science</i> , 2017, 39, 206-216.	1.2	23
47	Investigating the Structure of Multicomponent Gel-Phase Lipid Bilayers. <i>Biophysical Journal</i> , 2016, 111, 813-823.	0.2	22
48	Interactions of dipalmitoylphosphatidylcholine with ceramide-based mixtures. <i>Biochimica Et Biophysica Acta - Biomembranes</i> , 2018, 1860, 1272-1281.	1.4	20
49	Topical delivery of niacinamide: Influence of neat solvents. <i>International Journal of Pharmaceutics</i> , 2020, 579, 119137.	2.6	20
50	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.	2.6	18
51	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.	2.0	17
52	Kinetic Evidence Suggests Spinodal Phase Separation in Stratum Corneum Models by IR Spectroscopy. <i>Journal of Physical Chemistry B</i> , 2014, 118, 4378-4387.	1.2	16
53	Image analysis to quantify histological and immunofluorescent staining of <i>ex vivo</i> skin and skin cell cultures. <i>International Journal of Cosmetic Science</i> , 2010, 32, 143-154.	1.2	15
54	Effect of glycerin on drying stresses in human stratum corneum. <i>Journal of Dermatological Science</i> , 2011, 61, 129-131.	1.0	15

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55	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.	2.6	15
56	Composition Dependence of Water Permeation Across Multicomponent Gel-Phase Bilayers. <i>Journal of Physical Chemistry B</i> , 2018, 122, 3113-3123.	1.2	15
57	Fourier transform infrared spectroscopy studies of lipid domain formation in normal and ceramide deficient stratum corneum lipid models. <i>International Journal of Pharmaceutics</i> , 2012, 435, 63-68.	2.6	14
58	<i>In Vivo</i> Barrier Challenge and Initial Recovery in Human Facial Skin. <i>Skin Research and Technology</i> , 2013, 19, e375-82.	0.8	14
59	Spectrofluorescence of skin and hair. <i>International Journal of Cosmetic Science</i> , 2012, 34, 246-256.	1.2	13
60	Structure–energy relations in hen egg white lysozyme observed during refolding from a quenched unfolded state. <i>Chemical Communications</i> , 2009, , 4441.	2.2	10
61	Clinical and in vitro evaluation of new anti-redness cosmetic products in subjects with winter xerosis and sensitive skin. <i>International Journal of Cosmetic Science</i> , 2019, 41, 534-547.	1.2	10
62	Infrared spectroscopy and differential scanning calorimetry studies of binary combinations of cis-6-octadecenoic acid and octadecanoic acid. <i>Chemistry and Physics of Lipids</i> , 2007, 150, 109-115.	1.5	9
63	Topical Delivery of 3-O-ethyl L-ascorbic Acid from Complex Solvent Systems. <i>Scientia Pharmaceutica</i> , 2020, 88, 19.	0.7	9
64	Fluctuations in IR spectral parameters detected in mixed acyl chain membranes of <i>Acholeplasma laidlawii</i> B. <i>Biochimica Et Biophysica Acta - Biomembranes</i> , 1996, 1279, 49-57.	1.4	7
65	Structural Properties of Phospholipid-based Bilayers with Long-Chain Alcohol Molecules in the Gel Phase. <i>Journal of Physical Chemistry B</i> , 2016, 120, 12863-12871.	1.2	7
66	3D-printed Franz type diffusion cells. <i>International Journal of Cosmetic Science</i> , 2018, 40, 604-609.	1.2	7
67	Optimised detection of mitochondrial DNA strand breaks. <i>Mitochondrion</i> , 2019, 46, 172-178.	1.6	7
68	Study of water vapor and surfactant absorption by lipid model systems using the quartz crystal microbalance. <i>Chemistry and Physics of Lipids</i> , 2011, 164, 259-265.	1.5	6
69	A series of in vitro and human studies of a novel lip cream formulation for protecting against environmental triggers of recurrent herpes labialis. <i>Clinical, Cosmetic and Investigational Dermatology</i> , 2019, Volume 12, 193-208.	0.8	6
70	<i>In vivo</i> barrier challenge and long-term recovery in human facial skin. <i>International Journal of Cosmetic Science</i> , 2013, 35, 250-256.	1.2	5
71	A proof-of-principle study comparing barrier function and cell morphology in face and body skin. <i>International Journal of Cosmetic Science</i> , 2019, 41, 613-616.	1.2	4
72	Use of LC-MS analysis to elucidate by-products of niacinamide transformation following <i>in vitro</i> skin permeation studies. <i>International Journal of Cosmetic Science</i> , 2018, 40, 525-529.	1.2	3

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73	A Preliminary Investigation of Additive Manufacture to Fabricate Human Nail Plate Surrogates for Pharmaceutical Testing. <i>Pharmaceutics</i> , 2019, 11, 250.	2.0	3
74	Cosmetic benefit of a biomimetic lamellar cream formulation on barrier function or the appearance of fine lines and wrinkles in randomized proof-of-concept clinical studies. <i>International Journal of Cosmetic Science</i> , 2019, 41, 1-11.	1.2	3
75	Examining Tail and Headgroup Effects on Binary and Ternary Gel-Phase Lipid Bilayer Structure. <i>Journal of Physical Chemistry B</i> , 2020, 124, 3043-3053.	1.2	3
76	3D-Printed Franz cells – update on optimization of manufacture and evaluation. <i>International Journal of Cosmetic Science</i> , 2020, 42, 415-419.	1.2	3
77	Exploratory in vivo biophysical studies of stratum corneum lipid organization in human face and arm skin. <i>International Journal of Pharmaceutics</i> , 2022, 622, 121887.	2.6	3
78	pH induced alterations in stratum corneum properties. <i>Journal of the American Academy of Dermatology</i> , 2004, 50, P33.	0.6	2
79	Quantitative IR Spectroscopy Studies of Changes in Lipid Dynamics and Organization in Isolated Stratum Corneum Exposed to Basic pH. <i>Biophysical Journal</i> , 2010, 98, 275a.	0.2	1
80	Cosmetic benefits of a novel biomimetic lamellar formulation containing niacinamide in healthy females with oily, blemish-prone skin in a randomized proof-of-concept study. <i>International Journal of Cosmetic Science</i> , 2020, 42, 29-35.	1.2	1
81	FT-IR studies of sickle hemoglobin interaction with phosphatidylserine. <i>Spectroscopy</i> , 2004, 18, 407-413.	0.8	0
82	Fluorescencia de los Tejidos Queratinosos. <i>International Journal of Morphology</i> , 2012, 30, 956-963.	0.1	0
83	Vibrational Imaging and Microspectroscopy of Natural Moisturizing Factor Concentration in Human Corneocytes. <i>Basic and Clinical Dermatology</i> , 2009, , 433-440.	0.1	0