

Richard Mendelsohn

List of Publications by Year in descending order

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48
papers

2,958
citations

218677

26
h-index

243625

44
g-index

50
all docs

50
docs citations

50
times ranked

3818
citing authors

#	ARTICLE	IF	CITATIONS
1	<p>Visualization of Epidermal Reservoir Formation from Topical Diclofenac Gels by Raman Spectroscopy</p>. Journal of Pain Research, 2020, Volume 13, 1621-1627.	2.0	6
2	Microwave-Enabled Incorporation of Single Atomic Cu Catalytic Sites in Holey Graphene: Unifying Structural Requirements of a Carbon Matrix for Simultaneous Achievement of High Activity and Long-Term Durability. ACS Applied Energy Materials, 2020, 3, 8266-8275.	5.1	9
3	FT-IR investigation of Terbinafine interaction with stratum corneum constituents. Biochimica Et Biophysica Acta - Biomembranes, 2020, 1862, 183335.	2.6	8
4	<p>A unique gel matrix moisturizer delivers deep hydration resulting in significant clinical improvement in radiance and texture</p>. Clinical, Cosmetic and Investigational Dermatology, 2019, Volume 12, 229-239.	1.8	2
5	Novel confocal Raman microscopy method to investigate hydration mechanisms in human skin. Skin Research and Technology, 2019, 25, 653-661.	1.6	9
6	Graphene oxide catalyzed ketone Î±-alkylation with alkenes: enhancement of graphene oxide activity by hydrogen bonding. Chemical Communications, 2019, 55, 5379-5382.	4.1	17
7	Dynamic structure and composition of bone investigated by nanoscale infrared spectroscopy. PLoS ONE, 2018, 13, e0202833.	2.5	28
8	Biological control of aragonite formation in stony corals. Science, 2017, 356, 933-938.	12.6	163
9	Functionalization of MgZnO nanorod films and characterization by FTIR microscopic imaging. Analytical and Bioanalytical Chemistry, 2017, 409, 6379-6386.	3.7	4
10	Lactation-Induced Changes in the Volume of Osteocyte Lacunar-Canalicular Space Alter Mechanical Properties in Cortical Bone Tissue. Journal of Bone and Mineral Research, 2017, 32, 688-697.	2.8	75
11	In vitro modeling of unsaturated free fatty acid-mediated tissue impairments seen in acne lesions. Archives of Dermatological Research, 2017, 309, 529-540.	1.9	19
12	Effects of permeation enhancers on flufenamic acid delivery in Ex vivo human skin by confocal Raman microscopy. International Journal of Pharmaceutics, 2016, 505, 319-328.	5.2	29
13	P-Doped Porous Carbon as Metal Free Catalysts for Selective Aerobic Oxidation with an Unexpected Mechanism. ACS Nano, 2016, 10, 2305-2315.	14.6	276
14	Graphene: Microwave Enabled One-Pot, One-Step Fabrication and Nitrogen Doping of Holey Graphene Oxide for Catalytic Applications (Small 27/2015). Small, 2015, 11, 3357-3357.	10.0	1
15	Topically applied ceramide accumulates in skin glyphs. Clinical, Cosmetic and Investigational Dermatology, 2015, 8, 329.	1.8	12
16	Microwave Enabled Oneâ€Pot, Oneâ€Step Fabrication and Nitrogen Doping of Holey Graphene Oxide for Catalytic Applications. Small, 2015, 11, 3358-3368.	10.0	106
17	Fatty Acid Chain Length Dependence of Phase Separation Kinetics in Stratum Corneum Models by IR Spectroscopy. Journal of Physical Chemistry B, 2015, 119, 9740-9750.	2.6	9
18	Graphene-Catalyzed Direct Friedelâ€Crafts Alkylation Reactions: Mechanism, Selectivity, and Synthetic Utility. Journal of the American Chemical Society, 2015, 137, 14473-14480.	13.7	147

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19	Synergy of oxygen and a piranha solution for eco-friendly production of highly conductive graphene dispersions. <i>Green Chemistry</i> , 2015, 17, 869-881.	9.0	27
20	Kinetic Evidence Suggests Spinodal Phase Separation in Stratum Corneum Models by IR Spectroscopy. <i>Journal of Physical Chemistry B</i> , 2014, 118, 4378-4387.	2.6	16
21	Vibrational Microspectroscopic Imaging: Applications To Skin Science And Wound Healing. , 2010, , .		0
22	Infrared reflection-absorption spectroscopy: Principles and applications to lipid-protein interaction in Langmuir films. <i>Biochimica Et Biophysica Acta - Biomembranes</i> , 2010, 1798, 788-800.	2.6	197
23	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.	2.6	185
24	FT-IR studies of sickle hemoglobin interaction with phosphatidylserine. <i>Spectroscopy</i> , 2004, 18, 407-413.	0.8	0
25	Infrared microspectroscopic imaging maps the spatial distribution of exogenous molecules in skin. <i>Journal of Biomedical Optics</i> , 2003, 8, 185.	2.6	59
26	A Polyalanine-Based Peptide Cannot Form a Stable Transmembrane α -Helix in Fully Hydrated Phospholipid Bilayers. <i>Biochemistry</i> , 2001, 40, 12103-12111.	2.5	37
27	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.	2.6	96
28	FTIR microscopic imaging of collagen and proteoglycan in bovine cartilage. <i>Biopolymers</i> , 2001, 62, 1-8.	2.4	376
29	FTIR microscopic imaging of collagen and proteoglycan in bovine cartilage. , 2001, 62, 1.		2
30	Infrared spectroscopy and microscopic imaging of stratum corneum models and skin. <i>Physical Chemistry Chemical Physics</i> , 2000, 2, 4651-4657.	2.8	46
31	^{13}C Isotope Labeling of Hydrophobic Peptides. Origin of the Anomalous Intensity Distribution in the Infrared Amide I Spectral Region of β -Sheet Structures. <i>Journal of the American Chemical Society</i> , 2000, 122, 677-683.	13.7	141
32	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.	2.6	39
33	Characterization of biological samples by two-dimensional infrared spectroscopy: Simulation of frequency, bandwidth, and intensity changes. <i>Biospectroscopy</i> , 1998, 2, 341-351.	0.6	36
34	Conformational Order of Specific Phospholipids in Human Erythrocytes: Correlations with Changes in Cell Shape. <i>Biochemistry</i> , 1997, 36, 660-664.	2.5	25
35	Quantitative Determination of Molecular Chain Tilt Angles in Monolayer Films at the Air/Water Interface: Infrared Reflection/Absorption Spectroscopy of Behenic Acid Methyl Ester. <i>Journal of Physical Chemistry B</i> , 1997, 101, 58-65.	2.6	190
36	FTIR Spectroscopy Studies of the Conformational Order and Phase Behavior of Ceramides. <i>Journal of Physical Chemistry B</i> , 1997, 101, 8933-8940.	2.6	159

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37	Adipocyte Fatty Acid-Binding Protein: Interaction with Phospholipid Membranes and Thermal Stability Studied by FTIR Spectroscopy. <i>Biochemistry</i> , 1997, 36, 8311-8317.	2.5	48
38	Partial Chain Deuteration as an IRRAS Probe of Conformational Order of Different Regions in Hexadecanoic Acid Monolayers at the Air/Water Interface. <i>Langmuir</i> , 1996, 12, 758-762.	3.5	28
39	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.	2.5	42
40	Conformational Order of Phospholipids Incorporated into Human Erythrocytes: An FTIR Spectroscopy Study. <i>Biochemistry</i> , 1996, 35, 229-235.	2.5	45
41	Polarized FT-IR Microscopy of Calcified Turkey Leg Tendon. <i>Connective Tissue Research</i> , 1996, 34, 203-211.	2.3	55
42	Characterization of biological samples by two-dimensional infrared spectroscopy: Simulation of frequency, bandwidth, and intensity changes. <i>Biospectroscopy</i> , 1996, 2, 341-351.	0.6	63
43	Peroxidation of erythrocytes: FTIR spectroscopy studies of extracted lipids, isolated membranes, and intact cells. <i>Biospectroscopy</i> , 1995, 1, 133-140.	0.6	34
44	An FT-IR microscopic investigation of the effects of tissue preservation on bone. <i>Calcified Tissue International</i> , 1992, 51, 72-77.	3.1	79
45	CD ₂ Rocking Modes as Quantitative Fourier Transform Infrared Spectroscopic Probes of Conformational Disorder in Phospholipid Bilayers. <i>ACS Symposium Series</i> , 1990, , 24-43.	0.5	3
46	Spectroscopic studies of a hydrophobic peptide in membranelike environments. <i>Biopolymers</i> , 1983, 22, 381-385.	2.4	4
47	Raman spectroscopic studies of the dipalmitoylphosphatidylcholine/glucagon and the dipalmitoylphosphatidylcholine/cardiolipin/insulin systems. <i>Journal of Raman Spectroscopy</i> , 1979, 8, 279-283.	2.5	3
48	Interplay of Univariate and Multivariate Analysis in Vibrational Microscopic Imaging of Mineralized Tissue and Skin. , 0, , 357-378.		3