

Laxman Mainali

List of Publications by Year in descending order

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42
papers

1,097
citations

394421

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414414

32
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42
all docs

42
docs citations

42
times ranked

637
citing authors

#	ARTICLE	IF	CITATIONS
1	High Cholesterol/Low Cholesterol: Effects in Biological Membranes: A Review. <i>Cell Biochemistry and Biophysics</i> , 2017, 75, 369-385.	1.8	204
2	Functions of Cholesterol and the Cholesterol Bilayer Domain Specific to the Fiber-Cell Plasma Membrane of the Eye Lens. <i>Journal of Membrane Biology</i> , 2012, 245, 51-68.	2.1	64
3	Using spin-label electron paramagnetic resonance (EPR) to discriminate and characterize the cholesterol bilayer domain. <i>Chemistry and Physics of Lipids</i> , 2011, 164, 819-829.	3.2	60
4	The immiscible cholesterol bilayer domain exists as an integral part of phospholipid bilayer membranes. <i>Biochimica Et Biophysica Acta - Biomembranes</i> , 2011, 1808, 1072-1080.	2.6	58
5	Formation of Cholesterol Bilayer Domains Precedes Formation of Cholesterol Crystals in Cholesterol/Dimyristoylphosphatidylcholine Membranes: EPR and DSC Studies. <i>Journal of Physical Chemistry B</i> , 2013, 117, 8994-9003.	2.6	52
6	Properties of membranes derived from the total lipids extracted from the human lens cortex and nucleus. <i>Biochimica Et Biophysica Acta - Biomembranes</i> , 2013, 1828, 1432-1440.	2.6	50
7	Membrane fluidity profiles as deduced by saturation-recovery EPR measurements of spin-lattice relaxation times of spin labels. <i>Journal of Magnetic Resonance</i> , 2011, 212, 418-425.	2.1	49
8	Properties of membranes derived from the total lipids extracted from clear and cataractous lenses of 61-70-year-old human donors. <i>European Biophysics Journal</i> , 2015, 44, 91-102.	2.2	39
9	Changes in the Properties and Organization of Human Lens Lipid Membranes Occurring with Age. <i>Current Eye Research</i> , 2017, 42, 721-731.	1.5	38
10	Phases and domains in sphingomyelin-cholesterol membranes: structure and properties using EPR spin-labeling methods. <i>European Biophysics Journal</i> , 2012, 41, 147-159.	2.2	36
11	Using spin-label W-band EPR to study membrane fluidity profiles in samples of small volume. <i>Journal of Magnetic Resonance</i> , 2013, 226, 35-44.	2.1	36
12	Phase-Separation and Domain-Formation in Cholesterol-Sphingomyelin Mixture: Pulse-EPR Oxygen Probing. <i>Biophysical Journal</i> , 2011, 101, 837-846.	0.5	35
13	Properties of fiber cell plasma membranes isolated from the cortex and nucleus of the porcine eye lens. <i>Experimental Eye Research</i> , 2012, 97, 117-129.	2.6	32
14	Cholesterol Bilayer Domains in the Eye Lens Health: A Review. <i>Cell Biochemistry and Biophysics</i> , 2017, 75, 387-398.	1.8	29
15	Lipid domains in intact fiber-cell plasma membranes isolated from cortical and nuclear regions of human eye lenses of donors from different age groups. <i>Experimental Eye Research</i> , 2015, 132, 78-90.	2.6	26
16	Organization of lipids in fiber-cell plasma membranes of the eye lens. <i>Experimental Eye Research</i> , 2017, 156, 79-86.	2.6	25
17	Formation of cholesterol Bilayer Domains Precedes Formation of Cholesterol Crystals in Membranes Made of the Major Phospholipids of Human Eye Lens Fiber Cell Plasma Membranes. <i>Current Eye Research</i> , 2020, 45, 162-172.	1.5	24
18	Spin-label saturation-recovery EPR at W-band: Applications to eye lens lipid membranes. <i>Journal of Magnetic Resonance</i> , 2011, 212, 86-94.	2.1	22

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19	Lipid-protein interactions in plasma membranes of fiber cells isolated from the human eye lens. <i>Experimental Eye Research</i> , 2014, 120, 138-151.	2.6	22
20	Spin-label W-band EPR with Seven-Loop-Six-Gap Resonator: Application to Lens Membranes Derived from Eyes of a Single Donor. <i>Applied Magnetic Resonance</i> , 2014, 45, 1343-1358.	1.2	17
21	Detection of cholesterol bilayer domains in intact biological membranes: Methodology development and its application to studies of eye lens fiber cell plasma membranes. <i>Experimental Eye Research</i> , 2019, 178, 72-81.	2.6	15
22	Association of Alpha-Crystallin with Fiber Cell Plasma Membrane of the Eye Lens Accompanied by Light Scattering and Cataract Formation. <i>Membranes</i> , 2021, 11, 447.	3.0	15
23	Saturation Recovery EPR Spin-Labeling Method for Quantification of Lipids in Biological Membrane Domains. <i>Applied Magnetic Resonance</i> , 2017, 48, 1355-1373.	1.2	14
24	Interaction of alpha-crystallin with four major phospholipids of eye lens membranes. <i>Experimental Eye Research</i> , 2021, 202, 108337.	2.6	14
25	Interaction of Alpha-Crystallin with Phospholipid Membranes. <i>Current Eye Research</i> , 2021, 46, 185-194.	1.5	13
26	Mechanical properties of the high cholesterol-containing membrane: An AFM study. <i>Biochimica Et Biophysica Acta - Biomembranes</i> , 2021, 1863, 183625.	2.6	12
27	Confocal Microscopy Confirmed that in Phosphatidylcholine Giant Unilamellar Vesicles with very High Cholesterol Content Pure Cholesterol Bilayer Domains Form. <i>Cell Biochemistry and Biophysics</i> , 2019, 77, 309-317.	1.8	11
28	Characterization of the Distribution of Spin-Lattice Relaxation Rates of Lipid Spin Labels in Fiber Cell Plasma Membranes of Eye Lenses with a Stretched Exponential Function. <i>Applied Magnetic Resonance</i> , 2019, 50, 903-918.	1.2	11
29	Factors Determining the Oxygen Permeability of Biological Membranes: Oxygen Transport Across Eye Lens Fiber-Cell Plasma Membranes. <i>Advances in Experimental Medicine and Biology</i> , 2017, 977, 27-34.	1.6	10
30	Cholesterol and cholesterol bilayer domains inhibit binding of alpha-crystallin to the membranes made of the major phospholipids of eye lens fiber cell plasma membranes. <i>Experimental Eye Research</i> , 2021, 206, 108544.	2.6	10
31	Amounts of phospholipids and cholesterol in lipid domains formed in intact lens membranes: Methodology development and its application to studies of porcine lens membranes. <i>Experimental Eye Research</i> , 2015, 140, 179-186.	2.6	9
32	Alpha-Crystallin Association with the Model of Human and Animal Eye Lens-Lipid Membranes is Modulated by Surface Hydrophobicity of Membranes. <i>Current Eye Research</i> , 2022, 47, 843-853.	1.5	8
33	Magnetic Resonance Spectra and Statistical Geometry. <i>Applied Magnetic Resonance</i> , 2010, 37, 865-880.	1.2	7
34	Spin-Labeled Small Unilamellar Vesicles with the T 1-Sensitive Saturation-Recovery EPR Display as an Oxygen-Sensitive Analyte for Measurement of Cellular Respiration. <i>Applied Magnetic Resonance</i> , 2015, 46, 885-895.	1.2	6
35	Alpha-Crystallin-Membrane Association Modulated by Phospholipid Acyl Chain Length and Degree of Unsaturation. <i>Membranes</i> , 2022, 12, 455.	3.0	6
36	Membrane elasticity modulated by cholesterol in model of porcine eye lens-lipid membrane. <i>Experimental Eye Research</i> , 2022, 220, 109131.	2.6	5

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37	Oxidation of Polyunsaturated Phospholipid Decreases the Cholesterol Content at which Cholesterol Bilayer Domains Start to form in Phospholipid-Cholesterol Membranes. <i>Biophysical Journal</i> , 2017, 112, 375a.	0.5	4
38	Hyperbolic-cosine waveguide tapers and oversize rectangular waveguide for reduced broadband insertion loss in W-band electron paramagnetic resonance spectroscopy. II. Broadband characterization. <i>Review of Scientific Instruments</i> , 2016, 87, 034704.	1.3	3
39	An AFM Approach Applied in a Study of $\hat{I}\pm$ -Crystallin Membrane Association: New Insights into Lens Hardening and Presbyopia Development. <i>Membranes</i> , 2022, 12, 522.	3.0	3
40	Cholesterol Bilayer Domain in Phospholipid Bilayer Membranes can be Detected by Confocal Microscope. <i>Biophysical Journal</i> , 2015, 108, 403a-404a.	0.5	2
41	Lipid-Protein Interactions in Fiber Cell Plasma Membrane Isolated From Human and Porcine Eye Lenses. <i>Biophysical Journal</i> , 2017, 112, 319a.	0.5	1
42	Phase Boundaries in Phosphatidylcholine Membranes Saturated and Oversaturated with Cholesterol. <i>Biophysical Journal</i> , 2012, 102, 81a-82a.	0.5	0