

# Lus M S Loura

## List of Publications by Year in Descending Order

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The third column is the impact factor (IF) of the journal, and the fourth column is the number of citations of the article.

87  
papers

2,580  
citations

29  
h-index

48  
g-index

92  
ext. papers

2,772  
ext. citations

3.4  
avg, IF

5.09  
L-index

#	Paper	IF	Citations
87	Pulmonary surfactant protein SP-B nanorings induce the multilamellar organization of surfactant complexes. <i>Biochimica Et Biophysica Acta - Biomembranes</i> , <b>2020</b> , 1862, 183216	3.8	12
86	The Secret Lives of Fluorescent Membrane Probes as Revealed by Molecular Dynamics Simulations. <i>Molecules</i> , <b>2020</b> , 25,	4.8	7
85	Orientation of nitro-group governs the fluorescence lifetime of nitrobenzoxadiazole (NBD)-labeled lipids in lipid bilayers. <i>Physical Chemistry Chemical Physics</i> , <b>2019</b> , 21, 1682-1688	3.6	12
84	Förster Resonance Energy Transfer as a Tool for Quantification of Protein-Lipid Selectivity. <i>Methods in Molecular Biology</i> , <b>2019</b> , 2003, 369-382	1.4	0
83	Interaction of Bile Salts With Lipid Bilayers: An Atomistic Molecular Dynamics Study. <i>Frontiers in Physiology</i> , <b>2019</b> , 10, 393	4.6	4
82	Homo- and hetero-oligomerization of hydrophobic pulmonary surfactant proteins SP-B and SP-C in surfactant phospholipid membranes. <i>Journal of Biological Chemistry</i> , <b>2018</b> , 293, 9399-9411	5.4	24
81	Quantitative Assessment of Methods Used To Obtain Rate Constants from Molecular Dynamics Simulations-Translocation of Cholesterol across Lipid Bilayers. <i>Journal of Chemical Theory and Computation</i> , <b>2018</b> , 14, 3840-3848	6.4	10
80	Interaction of Amphiphilic Molecules with Lipid Bilayers: Kinetics of Insertion, Desorption and Translocation. <i>Springer Series in Biophysics</i> , <b>2017</b> , 49-89		2
79	Fluorescence of nitrobenzoxadiazole (NBD)-labeled lipids in model membranes is connected not to lipid mobility but to probe location. <i>Physical Chemistry Chemical Physics</i> , <b>2016</b> , 18, 7042-54	3.6	43
78	Diphenylhexatriene membrane probes DPH and TMA-DPH: A comparative molecular dynamics simulation study. <i>Biochimica Et Biophysica Acta - Biomembranes</i> , <b>2016</b> , 1858, 2647-2661	3.8	65
77	Electrostatically driven lipid-protein interaction: Answers from FRET. <i>Biochimica Et Biophysica Acta - Biomembranes</i> , <b>2015</b> , 1848, 1837-48	3.8	13
76	Interaction of NBD-labelled fatty amines with liquid-ordered membranes: a combined molecular dynamics simulation and fluorescence spectroscopy study. <i>Physical Chemistry Chemical Physics</i> , <b>2015</b> , 17, 27534-47	3.6	10
75	Influence of the sterol aliphatic side chain on membrane properties: a molecular dynamics study. <i>Physical Chemistry Chemical Physics</i> , <b>2015</b> , 17, 22736-48	3.6	10
74	Behaviour of NBD-head group labelled phosphatidylethanolamines in POPC bilayers: a molecular dynamics study. <i>Physical Chemistry Chemical Physics</i> , <b>2015</b> , 17, 20066-79	3.6	20
73	Behavior of pyrene as a polarity probe in palmitoylsphingomyelin and palmitoylsphingomyelin/cholesterol bilayers: A molecular dynamics simulation study. <i>Colloids and Surfaces A: Physicochemical and Engineering Aspects</i> , <b>2015</b> , 480, 296-306	5.1	15
72	Electrostatically driven lipid-lysozyme mixed fibers display a multilamellar structure without amyloid features. <i>Soft Matter</i> , <b>2014</b> , 10, 840-50	3.6	6
71	How to tackle the issues in free energy simulations of long amphiphiles interacting with lipid membranes: convergence and local membrane deformations. <i>Journal of Physical Chemistry B</i> , <b>2014</b> , 118, 3572-81	3.4	50

70	Modeling FRET to investigate the selectivity of lactose permease of Escherichia coli for lipids. <i>Molecular Membrane Biology</i> , <b>2014</b> , 31, 120-30	3.4	6
69	Behavior of fluorescent cholesterol analogues dehydroergosterol and cholestatrienol in lipid bilayers: a molecular dynamics study. <i>Journal of Physical Chemistry B</i> , <b>2013</b> , 117, 5806-19	3.4	29
68	Förster resonance energy transfer as a tool for quantification of protein-lipid selectivity. <i>Methods in Molecular Biology</i> , <b>2013</b> , 974, 219-32	1.4	
67	Phospholipid-lactose permease interaction as reported by a head-labeled pyrene phosphatidylethanolamine: a FRET study. <i>Journal of Physical Chemistry B</i> , <b>2013</b> , 117, 6741-8	3.4	6
66	Sensing hydration and behavior of pyrene in POPC and POPC/cholesterol bilayers: a molecular dynamics study. <i>Biochimica Et Biophysica Acta - Biomembranes</i> , <b>2013</b> , 1828, 1094-101	3.8	27
65	NBD-labeled cholesterol analogues in phospholipid bilayers: insights from molecular dynamics. <i>Journal of Physical Chemistry B</i> , <b>2013</b> , 117, 13731-42	3.4	28
64	Effect of amphipathic HIV fusion inhibitor peptides on POPC and POPC/cholesterol membrane properties: a molecular simulation study. <i>International Journal of Molecular Sciences</i> , <b>2013</b> , 14, 14724-43	6.3	5
63	Lateral distribution of NBD-PC fluorescent lipid analogs in membranes probed by molecular dynamics-assisted analysis of Förster Resonance Energy Transfer (FRET) and fluorescence quenching. <i>International Journal of Molecular Sciences</i> , <b>2012</b> , 13, 14545-64	6.3	17
62	Membrane protein-lipid selectivity: enhancing sensitivity for modeling FRET data. <i>Journal of Physical Chemistry B</i> , <b>2012</b> , 116, 2438-45	3.4	10
61	Phosphatidylethanolamine-lactose permease interaction: a comparative study based on FRET. <i>Journal of Physical Chemistry B</i> , <b>2012</b> , 116, 14023-8	3.4	7
60	Topology and lipid selectivity of pulmonary surfactant protein SP-B in membranes: Answers from fluorescence. <i>Biochimica Et Biophysica Acta - Biomembranes</i> , <b>2012</b> , 1818, 1717-25	3.8	27
59	Lateral Membrane Heterogeneity Probed by FRET Spectroscopy and Microscopy. <i>Springer Series on Fluorescence</i> , <b>2012</b> , 71-113	0.5	1
58	Simple estimation of Förster Resonance Energy Transfer (FRET) orientation factor distribution in membranes. <i>International Journal of Molecular Sciences</i> , <b>2012</b> , 13, 15252-70	6.3	55
57	Molecular dynamics simulation of HIV fusion inhibitor T-1249: insights on peptide-lipid interaction. <i>Computational and Mathematical Methods in Medicine</i> , <b>2012</b> , 2012, 151854	2.8	7
56	Advanced FRET methodologies: protein-lipid selectivity detection and quantification. <i>Advances in Experimental Medicine and Biology</i> , <b>2012</b> , 749, 171-85	3.6	0
55	Fluorescence methods for lipoplex characterization. <i>Biochimica Et Biophysica Acta - Biomembranes</i> , <b>2011</b> , 1808, 2694-705	3.8	13
54	FRET in Membrane Biophysics: An Overview. <i>Frontiers in Physiology</i> , <b>2011</b> , 2, 82	4.6	74
53	Recent developments in molecular dynamics simulations of fluorescent membrane probes. <i>Molecules</i> , <b>2011</b> , 16, 5437-52	4.8	51

52	FRET studies of lipid-protein aggregates related to amyloid-like fibers. <i>Journal of Neurochemistry</i> , <b>2011</b> , 116, 696-701	6	7
51	Molecular dynamics simulations of T-20 HIV fusion inhibitor interacting with model membranes. <i>Biophysical Chemistry</i> , <b>2011</b> , 159, 275-86	3.5	10
50	Interaction of 7-nitrobenz-2-oxa-1,3-diazol-4-yl-labeled fatty amines with 1-palmitoyl, 2-oleoyl-sn-glycero-3-phosphocholine bilayers: a molecular dynamics study. <i>Journal of Physical Chemistry B</i> , <b>2011</b> , 115, 10109-19	3.4	25
49	Lactose permease lipid selectivity using Förster resonance energy transfer. <i>Biochimica Et Biophysica Acta - Biomembranes</i> , <b>2010</b> , 1798, 1707-13	3.8	17
48	Quantification of protein-lipid selectivity using FRET. <i>European Biophysics Journal</i> , <b>2010</b> , 39, 565-78	1.9	35
47	Membrane microheterogeneity: Förster resonance energy transfer characterization of lateral membrane domains. <i>European Biophysics Journal</i> , <b>2010</b> , 39, 589-607	1.9	28
46	Direct calculation of Förster orientation factor of membrane probes by molecular simulation. <i>Computational and Theoretical Chemistry</i> , <b>2010</b> , 946, 107-112		15
45	Structure and conformation of HIV fusion inhibitor peptide T-1249 in presence of model membranes: A molecular dynamics study. <i>Computational and Theoretical Chemistry</i> , <b>2010</b> , 946, 119-124		8
44	Fluorescent membrane probes behavior in lipid bilayers: insights from molecular dynamics simulations. <i>Biophysical Reviews</i> , <b>2009</b> , 1, 141	3.7	27
43	Membrane lipid domains and rafts: current applications of fluorescence lifetime spectroscopy and imaging. <i>Chemistry and Physics of Lipids</i> , <b>2009</b> , 157, 61-77	3.7	115
42	FRET analysis of domain formation and properties in complex membrane systems. <i>Biochimica Et Biophysica Acta - Biomembranes</i> , <b>2009</b> , 1788, 209-24	3.8	44
41	Characterization of peptide-induced morphological alterations in membranes by fluorescence resonance energy transfer. <i>Protein and Peptide Letters</i> , <b>2009</b> , 16, 726-35	1.9	3
40	Role of helix 0 of the N-BAR domain in membrane curvature generation. <i>Biophysical Journal</i> , <b>2008</b> , 94, 3065-73	2.9	48
39	Pinched multilamellar structure of aggregates of lysozyme and phosphatidylserine-containing membranes revealed by FRET. <i>Biophysical Journal</i> , <b>2008</b> , 95, 4726-36	2.9	25
38	Sifuvirtide screens rigid membrane surfaces. establishment of a correlation between efficacy and membrane domain selectivity among HIV fusion inhibitor peptides. <i>Journal of the American Chemical Society</i> , <b>2008</b> , 130, 6215-23	16.4	48
37	Effects of fluorescent probe NBD-PC on the structure, dynamics and phase transition of DPPC. A molecular dynamics and differential scanning calorimetry study. <i>Biochimica Et Biophysica Acta - Biomembranes</i> , <b>2008</b> , 1778, 491-501	3.8	52
36	Is there a preferential interaction between cholesterol and tryptophan residues in membrane proteins?. <i>Biochemistry</i> , <b>2008</b> , 47, 2638-49	3.2	25
35	Effect of ionic strength and presence of serum on lipoplexes structure monitored by FRET. <i>BMC Biotechnology</i> , <b>2008</b> , 8, 20	3.5	20

34	T-20 and T-1249 HIV fusion inhibitors structure and conformation in solution: a molecular dynamics study. <i>Journal of Peptide Science</i> , <b>2008</b> , 14, 442-7	2.1	16
33	Resonance Energy Transfer in Biophysics: Formalisms and Application to Membrane Model Systems. <i>Springer Series on Fluorescence</i> , <b>2007</b> , 299-322	0.5	
32	Liposome complexation efficiency monitored by FRET: effect of charge ratio, helper lipid and plasmid size. <i>European Biophysics Journal</i> , <b>2007</b> , 36, 609-20	1.9	9
31	Location and dynamics of acyl chain NBD-labeled phosphatidylcholine (NBD-PC) in DPPC bilayers. A molecular dynamics and time-resolved fluorescence anisotropy study. <i>Biochimica Et Biophysica Acta - Biomembranes</i> , <b>2007</b> , 1768, 467-78	3.8	74
30	Ciprofloxacin interactions with bacterial protein OmpF: modelling of FRET from a multi-tryptophan protein trimer. <i>Biochimica Et Biophysica Acta - Biomembranes</i> , <b>2007</b> , 1768, 2822-30	3.8	30
29	Fluorescence resonance energy transfer to characterize cholesterol-induced domains. <i>Methods in Molecular Biology</i> , <b>2007</b> , 400, 489-501	1.4	4
28	Absence of clustering of phosphatidylinositol-(4,5)-bisphosphate in fluid phosphatidylcholine. <i>Journal of Lipid Research</i> , <b>2006</b> , 47, 1521-5	6.3	36
27	Structure and dynamics of the gammaM4 transmembrane domain of the acetylcholine receptor in lipid bilayers: insights into receptor assembly and function. <i>Molecular Membrane Biology</i> , <b>2006</b> , 23, 305-15	3.4	17
26	Structural effects of a basic peptide on the organization of dipalmitoylphosphatidylcholine/dipalmitoylphosphatidylserine membranes: a fluorescent resonance energy transfer study. <i>Journal of Physical Chemistry B</i> , <b>2006</b> , 110, 8130-41	3.4	25
25	Interaction of the indole class of vacuolar H(+)-ATPase inhibitors with lipid bilayers. <i>Biochemistry</i> , <b>2006</b> , 45, 5271-9	3.2	5
24	Binding assays of inhibitors towards selected V-ATPase domains. <i>Biochimica Et Biophysica Acta - Biomembranes</i> , <b>2006</b> , 1758, 1777-86	3.8	12
23	Non-uniform membrane probe distribution in resonance energy transfer: application to protein-lipid selectivity. <i>Journal of Fluorescence</i> , <b>2006</b> , 16, 161-72	2.4	8
22	From Lipid Phases to Membrane Protein Organization: Fluorescence Methodologies in the Study of Lipid-Protein Interactions. <i>Springer Series in Biophysics</i> , <b>2006</b> , 1-33		1
21	Application of Fluorescence to Understand the Interaction of Peptides with Binary Lipid Membranes. <i>Reviews in Fluorescence</i> , <b>2005</b> , 271-323	0	2
20	Lipid rafts have different sizes depending on membrane composition: a time-resolved fluorescence resonance energy transfer study. <i>Journal of Molecular Biology</i> , <b>2005</b> , 346, 1109-20	6.5	263
19	Photophysical behavior of a dimeric cyanine dye (BOBO-1) within cationic liposomes. <i>Photochemistry and Photobiology</i> , <b>2005</b> , 81, 1450-9	3.6	6
18	Quantification of Protein-Lipid Selectivity using FRET: Application to the M13 Major Coat Protein. <i>Biophysical Journal</i> , <b>2004</b> , 87, 344-52	2.9	40
17	HIV fusion inhibitor peptide T-1249 is able to insert or adsorb to lipidic bilayers. Putative correlation with improved efficiency. <i>Journal of the American Chemical Society</i> , <b>2004</b> , 126, 14758-63	16.4	65

16	Cholesterol modulates the organization of the gammaM4 transmembrane domain of the muscle nicotinic acetylcholine receptor. <i>Biophysical Journal</i> , <b>2004</b> , 86, 2261-72	2.9	42
15	Methodologies and formalisms of resonance energy transfer in biophysics. Application to membrane model systems. <i>International Journal of Photoenergy</i> , <b>2003</b> , 5, 223-231	2.1	2
14	Interaction of peptides with binary phospholipid membranes: application of fluorescence methodologies. <i>Chemistry and Physics of Lipids</i> , <b>2003</b> , 122, 77-96	3.7	29
13	Dependence of M13 major coat protein oligomerization and lateral segregation on bilayer composition. <i>Biophysical Journal</i> , <b>2003</b> , 85, 2430-41	2.9	41
12	Characterization of DNA/lipid complexes by fluorescence resonance energy transfer. <i>Biophysical Journal</i> , <b>2003</b> , 85, 3106-19	2.9	40
11	Nonequilibrium phenomena in the phase separation of a two-component lipid bilayer. <i>Biophysical Journal</i> , <b>2002</b> , 82, 823-34	2.9	72
10	Detection and Characterization of Membrane Microheterogeneity by Resonance Energy Transfer. <i>Journal of Fluorescence</i> , <b>2001</b> , 11, 197-209	2.4	27
9	Fluid-fluid membrane microheterogeneity: a fluorescence resonance energy transfer study. <i>Biophysical Journal</i> , <b>2001</b> , 80, 776-88	2.9	105
8	A photophysical study of the polyene antibiotic filipin. Self-aggregation and filipin--ergosterol interaction. <i>Biochimica Et Biophysica Acta - Biomembranes</i> , <b>2001</b> , 1510, 125-35	3.8	9
7	Exclusion of a cholesterol analog from the cholesterol-rich phase in model membranes. <i>Biochimica Et Biophysica Acta - Biomembranes</i> , <b>2001</b> , 1511, 236-43	3.8	61
6	Partition of membrane probes in a gel/fluid two-component lipid system: a fluorescence resonance energy transfer study. <i>Biochimica Et Biophysica Acta - Biomembranes</i> , <b>2000</b> , 1467, 101-12	3.8	57
5	Membrane Probe Distribution Heterogeneity: A Resonance Energy Transfer Study. <i>Journal of Physical Chemistry B</i> , <b>2000</b> , 104, 6920-6931	3.4	43
4	Resonance Energy Transfer in Heterogeneous Planar and Bilayer Systems: Theory and Simulation. <i>Journal of Physical Chemistry B</i> , <b>2000</b> , 104, 6911-6919	3.4	26
3	Dehydroergosterol structural organization in aqueous medium and in a model system of membranes. <i>Biophysical Journal</i> , <b>1997</b> , 72, 2226-36	2.9	60
2	Separating the turbidity spectra of vesicles from the absorption spectra of membrane probes and other chromophores. <i>European Biophysics Journal</i> , <b>1997</b> , 26, 253-259	1.9	44
1	Resonance energy transfer in a model system of membranes: application to gel and liquid crystalline phases. <i>Biophysical Journal</i> , <b>1996</b> , 71, 1823-36	2.9	88