

# Leonel Malacrida

## List of Publications by Year in descending order

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Version: 2024-02-01

56  
papers

1,209  
citations

430874

18  
h-index

414414

32  
g-index

65  
all docs

65  
docs citations

65  
times ranked

1612  
citing authors

#	ARTICLE	IF	CITATIONS
1	Fit-free analysis of fluorescence lifetime imaging data using the phasor approach. <i>Nature Protocols</i> , 2018, 13, 1979-2004.	12.0	217
2	PTEN Deficiency and AMPK Activation Promote Nutrient Scavenging and Anabolism in Prostate Cancer Cells. <i>Cancer Discovery</i> , 2018, 8, 866-883.	9.4	141
3	Measurements of absolute concentrations of NADH in cells using the phasor FLIM method. <i>Biomedical Optics Express</i> , 2016, 7, 2441.	2.9	88
4	The Phasor Plot: A Universal Circle to Advance Fluorescence Lifetime Analysis and Interpretation. <i>Annual Review of Biophysics</i> , 2021, 50, 575-593.	10.0	67
5	Spectral phasor analysis of LAURDAN fluorescence in live A549 lung cells to study the hydration and time evolution of intracellular lamellar body-like structures. <i>Biochimica Et Biophysica Acta - Biomembranes</i> , 2016, 1858, 2625-2635.	2.6	62
6	LAURDAN since Weber: The Quest for Visualizing Membrane Heterogeneity. <i>Accounts of Chemical Research</i> , 2021, 54, 976-987.	15.6	50
7	A multidimensional phasor approach reveals LAURDAN photophysics in NIH-3T3 cell membranes. <i>Scientific Reports</i> , 2017, 7, 9215.	3.3	47
8	Model-free methods to study membrane environmental probes: a comparison of the spectral phasor and generalized polarization approaches. <i>Methods and Applications in Fluorescence</i> , 2015, 3, 047001.	2.3	41
9	Alteration in Fluidity of Cell Plasma Membrane in Huntington Disease Revealed by Spectral Phasor Analysis. <i>Scientific Reports</i> , 2018, 8, 734.	3.3	41
10	Determination of the metabolic index using the fluorescence lifetime of free and bound nicotinamide adenine dinucleotide using the phasor approach. <i>Journal of Biophotonics</i> , 2019, 12, e201900156.	2.3	41
11	A global view of standards for open image data formats and repositories. <i>Nature Methods</i> , 2021, 18, 1440-1446.	19.0	36
12	LAURDAN fluorescence and phasor plots reveal the effects of a H <sub>2</sub> O <sub>2</sub> bolus in NIH-3T3 fibroblast membranes dynamics and hydration. <i>Free Radical Biology and Medicine</i> , 2018, 128, 144-156.	2.9	33
13	Phasor-based hyperspectral snapshot microscopy allows fast imaging of live, three-dimensional tissues for biomedical applications. <i>Communications Biology</i> , 2021, 4, 721.	4.4	30
14	Delayed mTOR Inhibition with Low Dose of Everolimus Reduces TGF $\beta$ <sup>2</sup> Expression, Attenuates Proteinuria and Renal Damage in the Renal Mass Reduction Model. <i>PLoS ONE</i> , 2012, 7, e32516.	2.5	30
15	Visualization of barriers and obstacles to molecular diffusion in live cells by spatial pair-cross-correlation in two dimensions. <i>Biomedical Optics Express</i> , 2018, 9, 303.	2.9	26
16	Hyperoxia and Lungs: What We Have Learned From Animal Models. <i>Frontiers in Medicine</i> , 2021, 8, 606678.	2.6	26
17	StarD5: an ER stress protein regulates plasma membrane and intracellular cholesterol homeostasis. <i>Journal of Lipid Research</i> , 2019, 60, 1087-1098.	4.2	25
18	sideSPIM "selective plane illumination based on a conventional inverted microscope. <i>Biomedical Optics Express</i> , 2017, 8, 3918.	2.9	22

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19	The DIVER Microscope for Imaging in Scattering Media. <i>Methods and Protocols</i> , 2019, 2, 53.	2.0	22
20	Differences between FLIM phasor analyses for data collected with the Becker and Hickl SPC830 card and with the FLIMbox card. <i>Microscopy Research and Technique</i> , 2018, 81, 980-989.	2.2	19
21	Spectral phasor analysis reveals altered membrane order and function of root hair cells in <i>Arabidopsis dry2/sqe1-5</i> drought hypersensitive mutant. <i>Plant Physiology and Biochemistry</i> , 2017, 119, 224-231.	5.8	18
22	CAPRYDAA, an anthracene dye analog to LAURDAN: a comparative study using cuvette and microscopy. <i>Journal of Materials Chemistry B</i> , 2020, 8, 88-99.	5.8	18
23	Linear Combination Properties of the Phasor Space in Fluorescence Imaging. <i>Sensors</i> , 2022, 22, 999.	3.8	16
24	Comparison between iMSD and 2D-pCF analysis for molecular motion studies on in vivo cells: The case of the epidermal growth factor receptor. <i>Methods</i> , 2018, 140-141, 74-84.	3.8	12
25	In vivo macromolecular crowding is differentially modulated by aquaporin 0 in zebrafish lens: Insights from a nanoenvironment sensor and spectral imaging. <i>Science Advances</i> , 2022, 8, eabj4833.	10.3	11
26	Adenosine triphosphate-dependent calcium signaling during ventilator-induced lung injury is amplified by hypercapnia. <i>Experimental Lung Research</i> , 2011, 37, 471-481.	1.2	9
27	Sevoflurane anesthesia deteriorates pulmonary surfactant promoting alveolar collapse in male Sprague-Dawley rats. <i>Pulmonary Pharmacology and Therapeutics</i> , 2014, 28, 122-129.	2.6	9
28	A novel nitroalkene-tocopherol analogue inhibits inflammation and ameliorates atherosclerosis in Apo E knockout mice. <i>British Journal of Pharmacology</i> , 2019, 176, 757-772.	5.4	9
29	Membrane Remodeling by Arc/Arg3.1. <i>Frontiers in Molecular Biosciences</i> , 2021, 8, 630625.	3.5	8
30	Redox Behavior of Re(V)-Amino Acid Containing Complexes. <i>Journal of Colloid and Interface Science</i> , 2002, 249, 366-371.	9.4	6
31	Fluorescence Lifetime Phasor Analysis of the Decamer-Dimer Equilibrium of Human Peroxiredoxin 1. <i>International Journal of Molecular Sciences</i> , 2022, 23, 5260.	4.1	5
32	Insights into <i>in vivo</i> adipocyte differentiation through cell-specific labeling in zebrafish. <i>Biology Open</i> , 2021, 10, .	1.2	4
33	Salbutamol Improves Diaphragmatic Contractility in Chronic Airway Obstruction. <i>Archivos De Bronconeumologia</i> , 2009, 45, 230-234.	0.8	3
34	Halogenated Anesthetics Impairs Biophysical Properties of a Membrane Model of Pulmonary Surfactant. <i>Biophysical Journal</i> , 2011, 100, 505a-506a.	0.5	3
35	Barriers to Diffusion in Cells: Visualization of Membraneless Particles in the Nucleus. <i>The Biophysicist</i> , 2020, 1, .	0.3	2
36	Halogenated Anesthetics Impairs Phospholipid Composition From A Pulmonary Surfactant System. , 2010, , .		0

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37	Halogenated Anesthetics Impairs Biophysical Properties Of Pulmonary Surfactant. , 2011, , .		0
38	Deterioration of Pulmonary Surfactant by Volatile Anesthetics. Biophysical Journal, 2012, 102, 496a.	0.5	0
39	Sleeping Bubbles: Effects of Volatile Anesthetics in the Lateral Structure of Giant Unilamellar Vesicles. Biophysical Journal, 2013, 104, 33a.	0.5	0
40	Phasor Plots and Spectral Phasor Analysis of Laurdan and Prodan for Membrane Heterogeneity Studies: New Frontiers in Membrane Biophysics. Biophysical Journal, 2014, 106, 84a.	0.5	0
41	Hydration and Supramolecular Organization Studies of Lamellar Bodies in A549 Lung Cells using Laurdan Fluorescence. Biophysical Journal, 2015, 108, 413a.	0.5	0
42	Linear Combination between Lifetime and Spectral Phasor Plots: A New Approach to Study Membrane Organization with Laurdan. Biophysical Journal, 2016, 110, 492a.	0.5	0
43	Water Activity Inside the Nucleus: Some Clues using ACDAN Fluorescence and its Implications in the Chromatin Supramolecular Organization. Biophysical Journal, 2017, 112, 218a.	0.5	0
44	Of Absolute Concentrations of NADH in Cells using the Phasor Flim Method. Biophysical Journal, 2017, 112, 581a.	0.5	0
45	Selective Plane Illumination Microscopy in the Conventional Inverted Microscope Geometry. Biophysical Journal, 2017, 112, 145a.	0.5	0
46	SideSPIM - A Flexible Multipurpose Platform for Light Sheet Microscopy. Biophysical Journal, 2018, 114, 187a.	0.5	0
47	Elucidating Invisible Barriers and Obstacles to Molecular Diffusion in Live Cells by the Spatial Pair-Correlation Function: A Connectivity View of the Cell. Biophysical Journal, 2018, 114, 166a.	0.5	0
48	Intracellular Transport Characterization of the Transcription Factor Gli2 by Fluorescence Correlation Spectroscopy Approaches. Biophysical Journal, 2018, 114, 630a.	0.5	0
49	Photophysical Characterization and Microscopy Application of an Anthracene Analogous of Laurdan. Biophysical Journal, 2019, 116, 81a.	0.5	0
50	The Fluorescence Lifetime of Bound NADH: Clues from the Phasor Plots. Biophysical Journal, 2019, 116, 565a.	0.5	0
51	In Vivo Chromatin Compaction Changes as Detected by Water Dipolar Relaxations: the Molecular Crowding Role Revealed by the Acdan Fluorescence. Biophysical Journal, 2019, 116, 70a.	0.5	0
52	Characterization of the Metabolic State and Molecular Crowding in Breast Cancer Spheroids. Biophysical Journal, 2019, 116, 421a.	0.5	0
53	Multi-Modal Fluorescence Characterization of Cell Cycle Progression and Cytokinesis. Biophysical Journal, 2019, 116, 24a.	0.5	0
54	Primary Cilium Submicron Organization and Dynamics. Biophysical Journal, 2020, 118, 437a.	0.5	0

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55	Measuring the Spatial Distribution of Dipolar Relaxation in Live Zebrafish Eye Lenses during Development. <i>Biophysical Journal</i> , 2020, 118, 308a.	0.5	0
56	Solvatochromic Properties of Acdan and Spectral Phasor Analysis Reveal the Role of Aquaporin OA in Regulating Macromolecular Crowding in the Zebrafish Lens In Vivo. <i>Biophysical Journal</i> , 2020, 118, 166a.	0.5	0