

# Gerardo Daniel Fidelio

## List of Publications by Year in descending order

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84  
papers

3,163  
citations

159525

30  
h-index

161767

54  
g-index

86  
all docs

86  
docs citations

86  
times ranked

3886  
citing authors

#	ARTICLE	IF	CITATIONS
1	Toxic prefibrillar $\beta$ -synuclein amyloid oligomers adopt a distinctive antiparallel $\beta$ -sheet structure. <i>Biochemical Journal</i> , 2012, 443, 719-726.	1.7	215
2	Direct Visualization of Membrane Leakage Induced by the Antibiotic Peptides: Maculatin, Citropin, and Aurein. <i>Biophysical Journal</i> , 2005, 89, 1874-1881.	0.2	214
3	Interaction of Biotin with Streptavidin. <i>Journal of Biological Chemistry</i> , 1997, 272, 11288-11294.	1.6	208
4	Protein stability induced by ligand binding correlates with changes in protein flexibility. <i>Protein Science</i> , 2003, 12, 1496-1506.	3.1	198
5	Surface Behavior and Lipid Interaction of Alzheimer $\beta$ -Amyloid Peptide 1-42: A Membrane-Disrupting Peptide. <i>Biophysical Journal</i> , 2005, 88, 2706-2713.	0.2	172
6	Amyloid- $\beta$ Peptide Disruption of Lipid Membranes and the Effect of Metal Ions. <i>Journal of Molecular Biology</i> , 2006, 356, 759-770.	2.0	160
7	Extremely high thermal stability of streptavidin and avidin upon biotin binding. <i>New Biotechnology</i> , 1999, 16, 67-72.	2.7	159
8	A Model for the Interaction of 6-lauroyl-2-(dimethylamino)naphthalene with Lipid Environments: Implications for Spectral Properties. <i>Photochemistry and Photobiology</i> , 1999, 70, 557-564.	1.3	101
9	Water Dynamics in Glycosphingolipid Aggregates Studied by LAURDAN Fluorescence. <i>Biophysical Journal</i> , 1998, 75, 331-341.	0.2	96
10	Surface behaviour and peptide-lipid interactions of the antibiotic peptides, Maculatin and Citropin. <i>Biochimica Et Biophysica Acta - Biomembranes</i> , 2004, 1664, 31-37.	1.4	90
11	Superactivity and conformational changes on alpha-chymotrypsin upon interfacial binding to cationic micelles. <i>Biochemical Journal</i> , 2004, 378, 1059-1066.	1.7	79
12	Laurdan properties in glycosphingolipid-phospholipid mixtures: a comparative fluorescence and calorimetric study. <i>Biochimica Et Biophysica Acta - Biomembranes</i> , 1997, 1325, 80-90.	1.4	60
13	Two distinguishable fluorescent modes of 1-anilino-8-naphthalenesulfonate bound to human albumin. <i>Journal of Fluorescence</i> , 1996, 6, 33-40.	1.3	59
14	Interaction of myelin basic protein, melittin and bovine serum albumin with gangliosides, sulphatide and neutral glycosphingolipids in mixed monolayers. <i>Chemistry and Physics of Lipids</i> , 1984, 35, 231-245.	1.5	58
15	Molecular parameters and physical state of neutral glycosphingolipids and gangliosides in monolayers at different temperatures. <i>Biochimica Et Biophysica Acta - Biomembranes</i> , 1986, 854, 231-239.	1.4	58
16	Differential scanning calorimetry as a tool to estimate binding parameters in multiligand binding proteins. <i>Analytical Biochemistry</i> , 2006, 350, 277-284.	1.1	57
17	Effect of sulfatide and gangliosides on phospholipase C and phospholipase A2 activity. A monolayer study. <i>Biochimica Et Biophysica Acta - Biomembranes</i> , 1990, 1026, 179-185.	1.4	56
18	Ligand-induced thermostability in proteins: Thermodynamic analysis of ANS-albumin interaction. <i>Biochimica Et Biophysica Acta - Proteins and Proteomics</i> , 2005, 1750, 122-133.	1.1	54

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19	Molecular interactions and thermotropic behavior of glycosphingolipids in model membrane systems. <i>Chemistry and Physics of Lipids</i> , 1986, 42, 49-63.	1.5	51
20	Dual Inhibitory Effect of Gangliosides on Phospholipase C-Promoted Fusion of Lipidic Vesicles. <i>Biochemistry</i> , 1996, 35, 7506-7513.	1.2	44
21	Interaction of Small Ligands with Human Serum Albumin Iiia Subdomain. How to Determine the Affinity Constant Using an Easy Steady State Fluorescent Method. <i>Journal of Pharmaceutical Sciences</i> , 1996, 85, 1131-1132.	1.6	44
22	Degradation of dilauroylphosphatidylcholine by phospholipase A2 in monolayers containing glycosphingolipids. <i>Biochemistry</i> , 1991, 30, 1709-1714.	1.2	42
23	The participation of human serum albumin domains in chemical and thermal unfolding. <i>The Protein Journal</i> , 2001, 20, 81-89.	1.1	40
24	A new phospholipase a2 isoform isolated from <i>Bothrops neuwiedii</i> (yara) chica venom with novel kinetic and chromatographic properties. <i>Toxicon</i> , 1997, 35, 1205-1215.	0.8	39
25	Evidence of a strong interaction of 2,4-dichlorophenoxyacetic acid herbicide with human serum albumin. <i>Life Sciences</i> , 1998, 63, 2343-2351.	2.0	37
26	Molecular Parameters of Gangliosides in Monolayers: Comparative Evaluation of Suitable Purification Procedures. <i>Journal of Biochemistry</i> , 1991, 110, 12-16.	0.9	36
27	Kinetic and Pharmacological Characterization of Phospholipases A2 from <i>Bothrops neuwiedii</i> Venom. <i>Archives of Biochemistry and Biophysics</i> , 1995, 318, 65-70.	1.4	35
28	Differential penetration of fatty acyl-coenzyme A and fatty acylcarnitines into phospholipid monolayers. <i>FEBS Letters</i> , 1995, 357, 75-78.	1.3	34
29	Interaction of melittin with glycosphingolipids and phospholipids in mixed monolayers at different temperatures. Effect of the lipid physical state. <i>Biochimica Et Biophysica Acta - Biomembranes</i> , 1986, 862, 49-56.	1.4	33
30	Inhibition by Gangliosides of <i>Bacillus cereus</i> Phospholipase C Activity Against Monolayers, Micelles and Bilayer Vesicles. <i>FEBS Journal</i> , 1996, 239, 105-110.	0.2	32
31	Thermal Stability of Human Immunoglobulins with Sorbitol. <i>Vox Sanguinis</i> , 1995, 68, 1-4.	0.7	29
32	Thermal Stability of Human Immunoglobulins with Sorbitol: A Critical Evaluation. <i>Vox Sanguinis</i> , 1995, 68, 1-4.	0.7	28
33	Phospholipase-C-promoted liposome fusion. <i>Biochemical Society Transactions</i> , 1994, 22, 839-844.	1.6	26
34	Differential Interaction of Antimicrobial Peptides with Lipid Structures Studied by Coarse-Grained Molecular Dynamics Simulations. <i>Molecules</i> , 2017, 22, 1775.	1.7	25
35	Bioconversion of phospholipids by immobilized phospholipase A2. <i>Journal of Biotechnology</i> , 1995, 40, 145-153.	1.9	23
36	Concerted modulation by myelin basic protein and sulfatide of the activity of phospholipase A2 against phospholipid monolayers. <i>Biochemistry</i> , 1992, 31, 2636-2642.	1.2	22

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37	High-Density Lipoprotein from Hypercholesterolemic Animals Has Peroxidized Lipids and Oligomeric Apolipoprotein A-I: Its Putative Role in Atherogenesis. <i>Biochemical and Biophysical Research Communications</i> , 1997, 239, 570-574.	1.0	20
38	Anti-inflammatory effect of gangliosides in the rat hindpaw edema test. <i>European Journal of Pharmacology</i> , 1991, 199, 93-98.	1.7	19
39	Intravascular hemolysis induced by phospholipases A 2 from the venom of the Eastern coral snake, <i>Micurus fulvius</i> : Functional profiles of hemolytic and non-hemolytic isoforms. <i>Toxicology Letters</i> , 2018, 286, 39-47.	0.4	19
40	Cholesterol-induced alterations of the packing properties of gangliosides: an EPR study. <i>Chemistry and Physics of Lipids</i> , 2000, 104, 193-206.	1.5	18
41	Binding of the Highly Toxic Tetracycline Derivative, Anhydrotetracycline, to Bovine Serum Albumin. <i>Biological and Pharmaceutical Bulletin</i> , 2011, 34, 1301-1306.	0.6	18
42	Interaction of $\hat{\pm}$ -MSH and substance P with interfaces containing gangliosides. <i>Peptides</i> , 1996, 17, 269-274.	1.2	17
43	Thermodynamic and structural analysis of homodimeric proteins: Model of $\hat{I}^2$ -lactoglobulin. <i>Biochimica Et Biophysica Acta - Proteins and Proteomics</i> , 2012, 1824, 383-391.	1.1	17
44	Conformational flexibility of avidin: the influence of biotin binding. <i>Biochemical and Biophysical Research Communications</i> , 2004, 325, 922-927.	1.0	16
45	Protein Unfolding Coupled to Ligand Binding: Differential Scanning Calorimetry Simulation Approach. <i>Journal of Chemical Education</i> , 2005, 82, 85.	1.1	15
46	In silico and in vitro characterization of phospholipase A2 isoforms from soybean ( <i>Glycine max</i> ). <i>Biochimie</i> , 2012, 94, 2608-2619.	1.3	15
47	The rheological properties of beta amyloid Langmuir monolayers: Comparative studies with melittin peptide. <i>Colloids and Surfaces B: Biointerfaces</i> , 2016, 146, 180-187.	2.5	15
48	Calcium dependency of arachidonic acid incorporation into cellular phospholipids of different cell types. <i>Prostaglandins and Other Lipid Mediators</i> , 1999, 57, 341-350.	1.0	14
49	Sphingolipids (Galactosylceramide and Sulfatide) in Lamellar Hexagonal Phospholipid Phase Transitions and in Membrane Fusion. <i>Langmuir</i> , 2000, 16, 8958-8963.	1.6	14
50	Thermodynamic Model for the Analysis of Calorimetric Data of Oligomeric Proteins. <i>Journal of Physical Chemistry B</i> , 2008, 112, 14325-14333.	1.2	13
51	Cloning and functional expression of secreted phospholipases A2 from <i>Bothrops diporus</i> (Yararaj). <i>Tj ETQq1 1 0.784314 rgBT /Overlook</i>	1.0	13
52	Fatty acid-indole fluorescent derivatives as probes to measure the polarity of interfaces containing gangliosides. <i>Chemistry and Physics of Lipids</i> , 1995, 78, 193-202.	1.5	12
53	Thyroid Hormones Affect the Membrane Dipolar Organization. Is It a General Event in Their Non-genomic Action?. <i>Journal of Membrane Biology</i> , 2003, 191, 209-213.	1.0	12
54	Lipid-like behavior of signal sequence peptides at air-water interface. <i>Biochimica Et Biophysica Acta - Biomembranes</i> , 2013, 1828, 708-714.	1.4	12

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55	Secretory Phospholipases A2 in Plants. <i>Frontiers in Plant Science</i> , 2019, 10, 861.	1.7	12
56	Reversing the peptide sequence impacts on molecular surface behaviour. <i>Colloids and Surfaces B: Biointerfaces</i> , 2016, 139, 25-32.	2.5	11
57	Mixed lipid aggregates containing gangliosides impose different <sup>2</sup> H-NMR dynamical parameters on water environment depending on their lipid composition. <i>Molecular Membrane Biology</i> , 2003, 20, 319-327.	2.0	10
58	Thyroid hormones-membrane interaction: Reversible association of hormones with organized phospholipids with changes in fluidity and dipole potential. <i>Chemistry and Physics of Lipids</i> , 2013, 175-176, 131-137.	1.5	10
59	A $\beta$ -Amyloid Fibrils Are Self-Triggered by the Interfacial Lipid Environment and Low Peptide Content. <i>Langmuir</i> , 2020, 36, 8056-8065.	1.6	10
60	Effect of gangliosides on trypanosoma cruzi infection in mice. <i>Life Sciences</i> , 1993, 53, PL69-PL73.	2.0	9
61	Interfacial properties of the M1 segment of the nicotinic acetylcholine receptor. <i>Biophysical Chemistry</i> , 2006, 121, 171-176.	1.5	9
62	Kinetic characterization, optimum conditions for catalysis and substrate preference of secretory phospholipase A2 from <i>Glycine max</i> in model membrane systems. <i>Biochimie</i> , 2015, 108, 48-58.	1.3	9
63	The interaction of an anti-lipid antibody (TEPC 15) with a model biomembrane system (monolayer). <i>Biochimica Et Biophysica Acta - Biomembranes</i> , 1987, 898, 253-256.	1.4	8
64	A simple method to obtain a covalent immobilized phospholipase A2. <i>Bioorganic and Medicinal Chemistry Letters</i> , 2001, 11, 1663-1664.	1.0	8
65	Inhibition of Human Platelet Aggregation by Gangliosides. <i>Thrombosis Research</i> , 2000, 98, 51-57.	0.8	7
66	Cholesterol-induced stabilization of lamellar structures in ganglioside-containing lipid aggregates. A <sup>31</sup> P-NMR study. <i>Chemistry and Physics of Lipids</i> , 1998, 94, 109-118.	1.5	6
67	CNS myelin structural modification induced in vitro by phospholipases A2. <i>Biochimica Et Biophysica Acta - Biomembranes</i> , 2016, 1858, 123-129.	1.4	6
68	The Effect of Phospholipase A2 Immobilization upon Calcium Interaction: A Kinetic Study. <i>Journal of Biochemistry</i> , 1999, 126, 1060-1066.	0.9	5
69	Coupling Reaction and Properties of Poly(ethylene glycol)-linked Phospholipases A2. <i>Bioscience, Biotechnology and Biochemistry</i> , 2002, 66, 722-729.	0.6	5
70	Biophysical properties of a synthetic transit peptide from wheat chloroplast ribulose 1,5-bisphosphate carboxylase. <i>Journal of Peptide Science</i> , 2007, 13, 245-252.	0.8	5
71	A constant area monolayer method to assess optimal lipid packing for lipolysis tested with several secreted phospholipase A2. <i>Biochimica Et Biophysica Acta - Biomembranes</i> , 2015, 1848, 2216-2224.	1.4	5
72	Synergic action of gangliosides on $\beta$ -MSH-induced cyclic AMP levels in rat brain slices. <i>Peptides</i> , 1996, 17, 345-347.	1.2	4

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73	Surface and Aggregation Properties of N-(4-Nitrophenyl)perfluorononamide. <i>Langmuir</i> , 1997, 13, 4079-4084.	1.6	4
74	An <i>in Vitro</i> System Simulates in Membranes the Antibacterial Mechanism Postulated for the Action of Isoxazolynaphthoquinoneimine in <i>Staphylococcus aureus</i> . <i>Biochemical and Biophysical Research Communications</i> , 1997, 239, 186-190.	1.0	4
75	Stabilization of homogeneous preparations of pregnancy zone protein lyophilized in the presence of saccharose. <i>Journal of Proteomics</i> , 2000, 46, 95-105.	2.4	4
76	Chymotrypsin <i>in situ</i> Eudragit <sup>®</sup> complex formation. <i>Biotechnology and Bioprocess Engineering</i> , 2013, 18, 538-545.	1.4	4
77	Auxins action on <i>Glycine max</i> secretory phospholipase A2 is mediated by the interfacial properties imposed by the phytohormones. <i>Chemistry and Physics of Lipids</i> , 2015, 189, 1-6.	1.5	4
78	Stitching together a nm thick peptide-based semiconductor sheet using UV light. <i>Colloids and Surfaces B: Biointerfaces</i> , 2021, 203, 111734.	2.5	3
79	Secondary structure of signal sequence peptides in the presence and absence of lipid: a Fourier transform infrared spectroscopic investigation. <i>Biochemical Society Transactions</i> , 1987, 15, 1129-1131.	1.6	2
80	Detecting phospholipase activity with the amphipathic lipid packing sensor motif of ArfGAP1. <i>Biochemical and Biophysical Research Communications</i> , 2018, 505, 290-294.	1.0	2
81	Signal sequence peptides at an air-water interface. <i>Biochemical Society Transactions</i> , 1986, 14, 1131-1132.	1.6	1
82	Maintenance and thermal stabilization of NADH dehydrogenase-2 conformation upon elimination of its C-terminal region. <i>Biochimie</i> , 2013, 95, 382-387.	1.3	1
83	Gangliosides smelt nanostructured amyloid A <sup>2</sup> (1-40) fibrils in a membrane lipid environment. <i>Biochimica Et Biophysica Acta - Biomembranes</i> , 2022, 1864, 183749.	1.4	1
84	Protein Oligomerization: Thermodynamic and Structural Analysis of the Dimerization of Beta-lactoglobulin. <i>Biophysical Journal</i> , 2010, 98, 28a-29a.	0.2	0