Gerardo Daniel Fidelio

List of Publications by Year
in descending order

84 papers	3,163 citations	159585 30 h-index	161849 54 g-index
86 all docs	86 docs citations	86 times ranked	3886 citing authors

#	Article	IF	Citations
1	Toxic prefibrillar Î±-synuclein amyloid oligomers adopt a distinctive antiparallel Î²-sheet structure. Biochemical Journal, 2012, 443, 719-726.	3.7	215
2	Direct Visualization of Membrane Leakage Induced by the Antibiotic Peptides: Maculatin, Citropin, and Aurein. Biophysical Journal, 2005, 89, 1874-1881.	0.5	214
3	Interaction of Biotin with Streptavidin. Journal of Biological Chemistry, 1997, 272, 11288-11294.	3.4	208
4	Protein stability induced by ligand binding correlates with changes in protein flexibility. Protein Science, 2003, 12, 1496-1506.	7.6	198
5	Surface Behavior and Lipid Interaction of Alzheimer Î²-Amyloid Peptide 1â€“42: A Membrane-Disrupting Peptide. Biophysical Journal, 2005, 88, 2706-2713.	0.5	172
6	Amyloid-Î² Peptide Disruption of Lipid Membranes and the Effect of Metal Ions. Journal of Molecular Biology, 2006, 356, 759-770.	4.2	160
7	Extremely high thermal stability of streptavidin and avidin upon biotin binding. New Biotechnology, 1999, 16, 67-72.	2.7	159
8	A Model for the Interaction of 6â€Lauroylâ€2â€(N,Nâ€dimethylamino)naphthalene with Lipid Environments: Implications for Spectral Properties. Photochemistry and Photobiology, 1999, 70, 557-564.	2.5	101
9	Water Dynamics in Glycosphingolipid Aggregates Studied by LAURDAN Fluorescence. Biophysical Journal, 1998, 75, 331-341.	0.5	96
10	Surface behaviour and peptideâ€“lipid interactions of the antibiotic peptides, Maculatin and Citropin. Biochimica Et Biophysica Acta - Biomembranes, 2004, 1664, 31-37.	2.6	90
11	Superactivity and conformational changes on alpha-chymotrypsin upon interfacial binding to cationic micelles. Biochemical Journal, 2004, 378, 1059-1066.	3.7	79
12	Laurdan properties in glycosphingolipid-phospholipid mixtures: a comparative fluorescence and calorimetric study. Biochimica Et Biophysica Acta - Biomembranes, 1997, 1325, 80-90.	2.6	60
13	Two distinguishable fluorescent modes of 1-anilino-8-naphthalenesulfonate bound to human albumin. Journal of Fluorescence, 1996, 6, 33-40.	2.5	59
14	Interaction of myelin basic protein, melittin and bovine serum albumin with gangliosides, sulphatide and neutral glycosphingolipids in mixed monolayers. Chemistry and Physics of Lipids, 1984, 35, 231-245.	3.2	58
15	Molecular parameters and physical state of neutral glycosphingolipids and gangliosides in monolayers at different temperatures. Biochimica Et Biophysica Acta - Biomembranes, 1986, 854, 231-239.	2.6	58
16	Differential scanning calorimetry as a tool to estimate binding parameters in multiligand binding proteins. Analytical Biochemistry, 2006, 350, 277-284.	2.4	57
17	Effect of sulfatide and gangliosides on phospholipase C and phospholipase A2 activity. A monolayer study. Biochimica Et Biophysica Acta - Biomembranes, 1990, 1026, 179-185.	2.6	56
18	Ligand-induced thermostability in proteins: Thermodynamic analysis of ANSâ€“albumin interaction. Biochimica Et Biophysica Acta - Proteins and Proteomics, 2005, 1750, 122-133.	2.3	54

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19	Molecular interactions and thermotropic behavior of glycosphingolipids in model membrane systems. Chemistry and Physics of Lipids, 1986, 42, 49-63.	3.2	51
20	Dual Inhibitory Effect of Gangliosides on Phospholipase C-Promoted Fusion of Lipidic Vesiclesâ€. Biochemistry, 1996, 35, 7506-7513.	2.5	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. Journal of Pharmaceutical Sciences, 1996, 85, 1131-1132.	3.3	44
22	Degradation of dilauroylphosphatidylcholine by phospholipase A2 in monolayers containing glycosphingolipids. Biochemistry, 1991, 30, 1709-1714.	2.5	42
23	The participation of human serum albumin domains in chemical and thermal unfolding. The Protein Journal, 2001, 20, 81-89.	1.1	40
24	A new phospholipase a2 isoform isolated from Bothrops neuwiedii (yararÃ¡ chica) venom with novel kinetic and chromatographic properties. Toxicon, 1997, 35, 1205-1215.	1.6	39
25	Evidence of a strong interaction of 2,4-dichlorophenoxyacetic acid herbicide with human serum albumin. Life Sciences, 1998, 63, 2343-2351.	4.3	37
26	Molecular Parameters of Gangliosides in Monolayers: Comparative Evaluation of Suitable Purification Procedures1. Journal of Biochemistry, 1991, 110, 12-16.	1.7	36
27	Kinetic and Pharmacological Characterization of Phospholipases A2 from Bothrops neuwiedii Venom. Archives of Biochemistry and Biophysics, 1995, 318, 65-70.	3.0	35
28	Differential penetration of fatty acyl-coenzyme A and fatty acylcarnitines into phospholipid monolayers. FEBS Letters, 1995, 357, 75-78.	2.8	34
29	Interaction of melittin with glycosphingolipids and phospholipids in mixed monolayers at different temperatures. Effect of the lipid physical state. Biochimica Et Biophysica Acta - Biomembranes, 1986, 862, 49-56.	2.6	33
30	Inhibition by Gangliosides of Bacillus cereus Phospholipase C Activity Against Monolayers, Micelles and Bilayer Vesicles. FEBS Journal, 1996, 239, 105-110.	0.2	32
31	Thermal Stability of Human Immunoglobulins with Sorbitol. Vox Sanguinis, 1995, 68, 1-4.	1.5	29
32	Thermal Stability of Human Immunoglobulins with Sorbitol: A Critical Evaluation. Vox Sanguinis, 1995, 68, 1-4.	1.5	28
33	Phospholipase-C-promoted liposome fusion. Biochemical Society Transactions, 1994, 22, 839-844.	3.4	26
34	Differential Interaction of Antimicrobial Peptides with Lipid Structures Studied by Coarse-Grained Molecular Dynamics Simulations. Molecules, 2017, 22, 1775.	3.8	25
35	Bioconversion of phospholipids by immobilized phospholipase A2. Journal of Biotechnology, 1995, 40, 145-153.	3.8	23
36	Concerted modulation by myelin basic protein and sulfatide of the activity of phospholipase A2 against phospholipid monolayers. Biochemistry, 1992, 31, 2636-2642.	2.5	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. Biochemical and Biophysical Research Communications, 1997, 239, 570-574.	2.1	20
38	Anti-inflammatory effect of gangliosides in the rat hindpaw edema test. European Journal of Pharmacology, 1991, 199, 93-98.	3.5	19
39	Intravascular hemolysis induced by phospholipases A 2 from the venom of the Eastern coral snake, Micrurus fulvius : Functional profiles of hemolytic and non-hemolytic isoforms. Toxicology Letters, 2018, 286, 39-47.	0.8	19
40	Cholesterol-induced alterations of the packing properties of gangliosides: an EPR study. Chemistry and Physics of Lipids, 2000, 104, 193-206.	3.2	18
41	Binding of the Highly Toxic Tetracycline Derivative, Anhydrotetracycline, to Bovine Serum Albumin. Biological and Pharmaceutical Bulletin, 2011, 34, 1301-1306.	1.4	18
42	Interaction of Î±-MSH and substance P with interfaces containing gangliosides. Peptides, 1996, 17, 269-274.	2.4	17
43	Thermodynamic and structural analysis of homodimeric proteins: Model of Î²-lactoglobulin. Biochimica Et Biophysica Acta - Proteins and Proteomics, 2012, 1824, 383-391.	2.3	17
44	Conformational flexibility of avidin: the influence of biotin binding. Biochemical and Biophysical Research Communications, 2004, 325, 922-927.	2.1	16
45	Protein Unfolding Coupled to Ligand Binding: Differential Scanning Calorimetry Simulation Approach. Journal of Chemical Education, 2005, 82, 85.	2.3	15
46	In silico and inÂvitro characterization of phospholipase A2 isoforms from soybean (Glycine max). Biochimie, 2012, 94, 2608-2619.	2.6	15
47	The rheological properties of beta amyloid Langmuir monolayers: Comparative studies with melittin peptide. Colloids and Surfaces B: Biointerfaces, 2016, 146, 180-187.	5.0	15
48	Calcium dependency of arachidonic acid incorporation into cellular phospholipids of different cell types. Prostaglandins and Other Lipid Mediators, 1999, 57, 341-350.	1.9	14
49	Sphingolipids (Galactosylceramide and Sulfatide) in Lamellarâ"Hexagonal Phospholipid Phase Transitions and in Membrane Fusionâ€. Langmuir, 2000, 16, 8958-8963.	3.5	14
50	Thermodynamic Model for the Analysis of Calorimetric Data of Oligomeric Proteins. Journal of Physical Chemistry B, 2008, 112, 14325-14333.	2.6	13
51	Cloning and functional expression of secreted phospholipases A2 from Bothrops diporus (YararÃ¡) Tj ETQq1 1 0.784314 rgBT /Overlock	2.1	13
52	Fatty acid-indole fluorescent derivatives as probes to measure the polarity of interfaces containing gangliosides. Chemistry and Physics of Lipids, 1995, 78, 193-202.	3.2	12
53	Thyroid Hormones Affect the Membrane Dipolar Organization. Is It a General Event in Their Non-genomic Action?. Journal of Membrane Biology, 2003, 191, 209-213.	2.1	12
54	Lipid-like behavior of signal sequence peptides at airâ€"water interface. Biochimica Et Biophysica Acta - Biomembranes, 2013, 1828, 708-714.	2.6	12

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55	Secretory Phospholipases A2 in Plants. Frontiers in Plant Science, 2019, 10, 861.	3.6	12
56	Reversing the peptide sequence impacts on molecular surface behaviour. Colloids and Surfaces B: Biointerfaces, 2016, 139, 25-32.	5.0	11
57	Mixed lipid aggregates containing gangliosides impose different2H-NMR dynamical parameters on water environment depending on their lipid composition. Molecular Membrane Biology, 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. Chemistry and Physics of Lipids, 2013, 175-176, 131-137.	3.2	10
59	AÎ²-Amyloid Fibrils Are Self-Triggered by the Interfacial Lipid Environment and Low Peptide Content. Langmuir, 2020, 36, 8056-8065.	3.5	10
60	Effect of gangliosides on trypanosoma cruzi infection in mice. Life Sciences, 1993, 53, PL69-PL73.	4.3	9
61	Interfacial properties of the M1 segment of the nicotinic acetylcholine receptor. Biophysical Chemistry, 2006, 121, 171-176.	2.8	9
62	Kinetic characterization, optimum conditions for catalysis and substrate preference of secretory phospholipase A2 from Glycine max in model membrane systems. Biochimie, 2015, 108, 48-58.	2.6	9
63	The interaction of an anti-lipid antibody (TEPC 15) with a model biomembrane system (monolayer). Biochimica Et Biophysica Acta - Biomembranes, 1987, 898, 253-256.	2.6	8
64	A simple method to obtain a covalent immobilized phospholipase A2. Bioorganic and Medicinal Chemistry Letters, 2001, 11, 1663-1664.	2.2	8
65	Inhibition of Human Platelet Aggregation by Gangliosides. Thrombosis Research, 2000, 98, 51-57.	1.7	7
66	Cholesterol-induced stabilization of lamellar structures in ganglioside-containing lipid aggregates. A 31P-NMR study. Chemistry and Physics of Lipids, 1998, 94, 109-118.	3.2	6
67	CNS myelin structural modification induced in vitro by phospholipases A2. Biochimica Et Biophysica Acta - Biomembranes, 2016, 1858, 123-129.	2.6	6
68	The Effect of Phospholipase A2 Immobilization upon Calcium Interaction: A Kinetic Study. Journal of Biochemistry, 1999, 126, 1060-1066.	1.7	5
69	Coupling Reaction and Properties of Poly(ethylene glycol)-linked Phospholipases A2. Bioscience, Biotechnology and Biochemistry, 2002, 66, 722-729.	1.3	5
70	Biophysical properties of a synthetic transit peptide from wheat chloroplast ribulose 1,5-bisphosphate carboxylase. Journal of Peptide Science, 2007, 13, 245-252.	1.4	5
71	A constant area monolayer method to assess optimal lipid packing for lipolysis tested with several secreted phospholipase A2. Biochimica Et Biophysica Acta - Biomembranes, 2015, 1848, 2216-2224.	2.6	5
72	Synergic action of gangliosides on Î±-MSH-induced cyclic AMP levels in rat brain slices. Peptides, 1996, 17, 345-347.	2.4	4

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73	Surface and Aggregation Properties of N-(4-Nitrophenyl)perfluorononanamide. Langmuir, 1997, 13, 4079-4084.	3.5	4
74	An â€œIn Vitroâ€•System Simulates in Membranes the Antibacterial Mechanism Postulated for the Action of Isoxazolylnaphtoquinoneimine inStaphylococcus aureus. Biochemical and Biophysical Research Communications, 1997, 239, 186-190.	2.1	4
75	Stabilization of homogeneous preparations of pregnancy zone protein lyophilized in the presence of saccharose. Journal of Proteomics, 2000, 46, 95-105.	2.4	4
76	Chymotrypsin â€" EudragitÂ® complex formation. Biotechnology and Bioprocess Engineering, 2013, 18, 538-545.	2.6	4
77	Auxins action on Glycine max secretory phospholipase A2 is mediated by the interfacial properties imposed by the phytohormones. Chemistry and Physics of Lipids, 2015, 189, 1-6.	3.2	4
78	Stitching together a nm thick peptide-based semiconductor sheet using UV light. Colloids and Surfaces B: Biointerfaces, 2021, 203, 111734.	5.0	3
79	Secondary structure of signal sequence peptides in the presence and absence of lipid: a Fourier transform infrared spectroscopic investigation. Biochemical Society Transactions, 1987, 15, 1129-1131.	3.4	2
80	Detecting phospholipase activity with the amphipathic lipid packing sensor motif of ArfGAP1. Biochemical and Biophysical Research Communications, 2018, 505, 290-294.	2.1	2
81	Signal sequence peptides at an air-water interface. Biochemical Society Transactions, 1986, 14, 1131-1132.	3.4	1
82	Maintenance and thermal stabilization of NADH dehydrogenase-2 conformation upon elimination of its C-terminal region. Biochimie, 2013, 95, 382-387.	2.6	1
83	Gangliosides smelt nanostructured amyloid AÎ²(1â€“40) fibrils in a membrane lipid environment. Biochimica Et Biophysica Acta - Biomembranes, 2022, 1864, 183749.	2.6	1
84	Protein Oligomerization: Thermodynamic and Structural Analysis of the Dimerization of Beta-lactoglobulin. Biophysical Journal, 2010, 98, 28a-29a.	0.5	0