JesÃºs Salgado

List of Publications by Year
in descending order

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72 papers	2,605 citations	126708 33 h-index	197535 49 g-index
74 all docs	74 docs citations	74 times ranked	2447 citing authors

#	Article	IF	Citations
1	A photoswitchable helical peptide with light-controllable interface/transmembrane topology in lipidic membranes. IScience, 2021, 24, 102771.	1.9	3
2	Spontaneous and Stress-Induced Pore Formation in Membranes: Theory, Experiments and Simulations. Journal of Membrane Biology, 2019, 252, 241-260.	1.0	20
3	Direct Observation of Nanometer-Scale Pores of Melittin in Supported Lipid Monolayers. Langmuir, 2015, 31, 3146-3158.	1.6	16
4	Overlap and diversity in antimicrobial peptide databases: compiling a non-redundant set of sequences. Bioinformatics, 2015, 31, 2553-2559.	1.8	42
5	A Hooke×³s law-based approach to protein folding rate. Journal of Theoretical Biology, 2015, 364, 407-417.	0.8	9
6	19F NMR screening of unrelated antimicrobial peptides shows that membrane interactions are largely governed by lipids. Biochimica Et Biophysica Acta - Biomembranes, 2014, 1838, 2260-2268.	1.4	33
7	Canonical Azimuthal Rotations and Flanking Residues Constrain theÂOrientation of Transmembrane Helices. Biophysical Journal, 2013, 104, 1508-1516.	0.2	3
8	Global stability of protein folding from an empirical free energy function. Journal of Theoretical Biology, 2013, 321, 44-53.	0.8	13
9	Î¶-potential determination using a ZetaMeter-Dynamic Speckle assembly. , 2012, , .		1
10	Âµ-Calpain Conversion of Antiapoptotic Bfl-1 (BCL2A1) into a Prodeath Factor Reveals Two Distinct alpha-Helices Inducing Mitochondria-Mediated Apoptosis. PLoS ONE, 2012, 7, e38620.	1.1	18
11	Hydrophobic mismatch of mobile transmembrane helices: Merging theory and experiments. Biochimica Et Biophysica Acta - Biomembranes, 2012, 1818, 1242-1249.	1.4	88
12	Comparative analysis of the orientation of transmembrane peptides using solid-state 2H- and 15N-NMR: mobility matters. European Biophysics Journal, 2012, 41, 475-482.	1.2	22
13	Switchable Bactericidal Effects from Novel Silica-Coated Silver Nanoparticles Mediated by Light Irradiation. Langmuir, 2011, 27, 2826-2833.	1.6	52
14	Photoswitchable bactericidal effects from novel silica-coated silver nanoparticles. Proceedings of SPIE, 2011, , .	0.8	1
15	A lipocentric view of peptide-induced pores. European Biophysics Journal, 2011, 40, 399-415.	1.2	109
16	Bax-derived membrane-active peptides act as potent and direct inducers of apoptosis in cancer cells. Journal of Cell Science, 2011, 124, 556-564.	1.2	50
17	Role of Membrane Lipids for the Activity of Pore Forming Peptides and Proteins. Advances in Experimental Medicine and Biology, 2010, 677, 31-55.	0.8	23
18	Pores Formed by BaxÎ±5 Relax to a Smaller Size and Keep at Equilibrium. Biophysical Journal, 2010, 99, 2917-2925.	0.2	77

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19	Solid state NMR analysis of peptides in membranes: Influence of dynamics and labeling scheme. Biochimica Et Biophysica Acta - Biomembranes, 2010, 1798, 252-257.	1.4	20
20	Permeabilization of the Outer Mitochondrial Membrane by Bcl-2 Proteins. Advances in Experimental Medicine and Biology, 2010, 677, 91-105.	0.8	30
21	Active Fragments from Pro- and Antiapoptotic BCL-2 Proteins Have Distinct Membrane Behavior Reflecting Their Functional Divergence. PLoS ONE, 2010, 5, e9066.	1.1	26
22	Orientational Landscapes of Peptides in Membranes: Prediction of ²H NMR Couplings in a Dynamic Context. Biochemistry, 2009, 48, 11441-11448.	1.2	17
23	Stability of Asymmetric Lipid Bilayers Assessed by Molecular Dynamics Simulations. Journal of the American Chemical Society, 2009, 131, 15194-15202.	6.6	68
24	Influence of Whole-Body Dynamics on 15N PISEMA NMR Spectra of Membrane Proteins: A Theoretical Analysis. Biophysical Journal, 2009, 96, 3233-3241.	0.2	40
25	The Alignment of Membrane-Active Peptides Depends on the Lipid Phase State as Viewed by solid state 19F-NMR. Biophysical Journal, 2009, 96, 156a.	0.2	0
26	Experiments Meet Hydrophobic Mismatch: A Re-evaluation Of The Orientation Of Model Transmembrane Peptides From Solid-State NMR. Biophysical Journal, 2009, 96, 159a.	0.2	0
27	Structure Of Complexes Of Helix-5 From Bax With Lipid Membranes. Biophysical Journal, 2009, 96, 159a.	0.2	0
28	Orientation and Dynamics of Peptides in Membranes Calculated from 2H-NMR Data. Biophysical Journal, 2009, 96, 3223-3232.	0.2	99
29	Influence of Dynamics on The Analysis of Solid-State NMR Data From Membrane-bound Peptides. Biophysical Journal, 2009, 96, 408a-409a.	0.2	0
30	Design of a bivalent peptide with two independent elements of secondary structure able to fold autonomously. Journal of Peptide Science, 2008, 14, 845-854.	0.8	10
31	Solid State NMR Structure Analysis of the Antimicrobial Peptide GramicidinÂS in Lipid Membranes: Concentration-Dependent Re-alignment and Self-Assembly as aÃ Í²-Barrel. Topics in Current Chemistry, 2008, 273, 139-154.	4.0	46
32	Self-Assembling of Peptide/Membrane Complexes by Atomistic Molecular Dynamics Simulations. Biophysical Journal, 2007, 92, 903-912.	0.2	53
33	Pore Formation by a Bax-Derived Peptide: Effect on the Line Tension of the Membrane Probed by AFM. Biophysical Journal, 2007, 93, 103-112.	0.2	128
34	The Dynamic Orientation of Membrane-Bound Peptides: Bridging Simulations and Experiments. Biophysical Journal, 2007, 93, 4278-4288.	0.2	62
35	Production and characterisation of recombinant forms of human pulmonary surfactant protein C (SP-C): Structure and surface activity. Biochimica Et Biophysica Acta - Biomembranes, 2006, 1758, 509-518.	1.4	24
36	Peptides corresponding to helices 5 and 6 of Bax can independently form large lipid pores. FEBS Journal, 2006, 273, 971-981.	2.2	97

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37	Double-spanning Plant Viral Movement Protein Integration into theEndoplasmic Reticulum Membrane Is Signal Recognition Particle-dependent,Translocon-mediated, andConcerted. Journal of Biological Chemistry, 2005, 280, 25907-25912.	1.6	40
38	Peptides Derived from Apoptotic Bax and Bid Reproduce the Poration Activity of the Parent Full-Length Proteins. Biophysical Journal, 2005, 88, 3976-3990.	0.2	91
39	Influence of Proline Residues in Transmembrane Helix Packing. Journal of Molecular Biology, 2004, 335, 631-640.	2.0	59
40	Membrane-Insertion Fragments of Bcl-xL, Bax, and Bidâ€. Biochemistry, 2004, 43, 10930-10943.	1.2	121
41	Peptides in apoptosis research. Journal of Peptide Science, 2002, 8, 543-560.	0.8	10
42	Membrane-bound structure and alignment of the antimicrobial beta-sheet peptide gramicidin S derived from angular and distance constraints by solid state 19F-NMR. Journal of Biomolecular NMR, 2001, 21, 191-208.	1.6	116
43	Kinetic and paramagnetic NMR investigations of the inhibition of Streptomyces antibioticus tyrosinase. Journal of Molecular Catalysis B: Enzymatic, 2000, 8, 27-35.	1.8	46
44	Paramagnetic NMR investigations of Co(II) and Ni(II) amicyanin. Journal of Biological Inorganic Chemistry, 1999, 4, 457-467.	1.1	34
45	Paramagnetic NMR studies of blue and purple copper proteins. , 1999, 5, S19-S32.		40
46	1 H NMR spectroscopy of the binuclear Cu(II) active site of Streptomyces antibioticus tyrosinase. FEBS Letters, 1999, 442, 215-220.	1.3	64
47	Determination of the Magnetic Axes of Cobalt(II) and Nickel(II) Azurins from1H NMR Data:Â Influence of the Metal and Axial Ligands on the Origin of Magnetic Anisotropy in Blue Copper Proteinsâ€. Biochemistry, 1998, 37, 8659-8673.	1.2	53
48	Understanding the Electronic Properties of the CuASite from the Soluble Domain of CytochromecOxidase through Paramagnetic1H NMRâ€. Biochemistry, 1998, 37, 7378-7389.	1.2	63
49	The Dynamic Properties of the M121H Azurin Metal Site as Studied by NMR of the Paramagnetic Cu(II) and Co(II) Metalloderivatives. Journal of Biological Chemistry, 1998, 273, 177-185.	1.6	30
50	Selective observation of the Cu(I)-amicyanin metal site by paramagnetic NMR on partially oxidised samples. Journal of Biomolecular NMR, 1997, 9, 299-305.	1.6	10
51	Paramagnetic Cobalt and Nickel Derivatives ofAlcaligenes denitrificansAzurin and Its M121Q Mutant. A1H NMR Studyâ€. Biochemistry, 1996, 35, 1810-1819.	1.2	55
52	EPR and Magnetic Susceptibility Studies of Cobalt(II)- and Nickel(II)-Substituted Azurins fromPseudomonas aeruginosa. Electronic Structure of the Active Sites. Inorganic Chemistry, 1996, 35, 2737-2741.	1.9	44
53	Analysis of the Paramagnetic Copper(II) Site of Amicyanin by1H NMR Spectroscopyâ€. Biochemistry, 1996, 35, 3085-3092.	1.2	77
54	Amino acid substitutions enhancing thermostability of Bacillus polymyxa Î²-glucosidase A. Biochemical Journal, 1996, 314, 833-838.	1.7	33

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55	Electron relaxation and solvent accessibility of the metal site in wild-type and mutated azurins as determined from nuclear magnetic relaxation dispersion experiments. Journal of Biological Inorganic Chemistry, 1996, 1, 551-559.	1.1	41
56	The Crystal Structure of Nickel(II)-Azurin. FEBS Journal, 1995, 228, 653-657.	0.2	6
57	¹ Hâ€NMR Study of a Cobaltâ€Substituted Blue Copper Protein: Pseudomonas Aeruginosa Co(II)â€Azurin. FEBS Journal, 1995, 231, 358-369.	0.2	2
58	The Crystal Structure of Nickel(II)-Azurin. FEBS Journal, 1995, 228, 653-657.	0.2	44
59	1 H-NMR Study of a Cobalt-Substituted Blue Copper Protein: Pseudomonas Aeruginosa Co(II)-Azurin. FEBS Journal, 1995, 231, 358-369.	0.2	42
60	Interaction of cobalt ions with carboxypeptidase A. Journal of Inorganic Biochemistry, 1994, 53, 1-11.	1.5	1
61	1H 2D-NMR characterization of Ni(II)-substituted azurin fromPseudomonas aeruginosa. Magnetic Resonance in Chemistry, 1993, 31, S41-S46.	1.1	21
62	Physical-mechanical effects of Nd:YAG laser on the surface of sound dental enamel. Biomaterials, 1993, 14, 313-316.	5.7	25
63	Two-dimensional 1 H NMR spectra of ferricytochrome c 551 from Pseudomonas aeruginosa. FEBS Letters, 1993, 324, 305-308.	1.3	9
64	1D- and 2D-NMR studies of the pH effects on the metal-site geometry in nickel(II)â€“azurin from Pseudomonas aeruginosa. Journal of the Chemical Society Chemical Communications, 1993, .	2.0	14
65	COSY and NOESY characterization of cobalt(II)-substituted azurin from Pseudomonas aeruginosa. Inorganic Chemistry, 1993, 32, 3587-3588.	1.9	41
66	Interaction of carboxylate inhibitors with the active site of nickel(II) carboxypeptidase A. Journal of the Chemical Society Dalton Transactions, 1992, , 3317-3324.	1.1	1
67	Spectroscopic studies of the interaction of nickel(II) carboxypeptidase with phosphate and pyrophosphate. Journal of the Chemical Society Dalton Transactions, 1992, , 713-717.	1.1	3
68	Spectroscopic characterization of nickel(II) carboxypeptidase. Journal of the Chemical Society Dalton Transactions, 1992, , 1443.	1.1	5
69	1H NMR and UV-vis spectroscopic characterization of sulfonamide complexes of nickek(II)-carbonic anhydrase. Resonance assignments based on NOE effects. Journal of Inorganic Biochemistry, 1992, 45, 231-243.	1.5	15
70	Some morphologic changes induced by Nd:YAG laser on the noncoated enamel surface: A scanning electron microscopy study. Lasers in Surgery and Medicine, 1992, 12, 131-136.	1.1	9
71	Spectroscopic studies of nickel(II) carbonic anhydrase and its adducts with inorganic anions. Journal of the Chemical Society Dalton Transactions, 1991, , 3393-3399.	1.1	15
72	Interaction of sulphate and chloride with cobalt(II)-carbonic anhydrase. Journal of Inorganic Biochemistry, 1990, 40, 245-253.	1.5	8