

# JesÃ³s 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	Pore Formation by a Bax-Derived Peptide: Effect on the Line Tension of the Membrane Probed by AFM. <i>Biophysical Journal</i> , 2007, 93, 103-112.	0.2	128
2	Membrane-Insertion Fragments of Bcl-xL, Bax, and Bid. <i>Biochemistry</i> , 2004, 43, 10930-10943.	1.2	121
3	Membrane-bound structure and alignment of the antimicrobial beta-sheet peptide gramicidin S derived from angular and distance constraints by solid state 19F-NMR. <i>Journal of Biomolecular NMR</i> , 2001, 21, 191-208.	1.6	116
4	A lipocentric view of peptide-induced pores. <i>European Biophysics Journal</i> , 2011, 40, 399-415.	1.2	109
5	Orientation and Dynamics of Peptides in Membranes Calculated from 2H-NMR Data. <i>Biophysical Journal</i> , 2009, 96, 3223-3232.	0.2	99
6	Peptides corresponding to helices 5 and 6 of Bax can independently form large lipid pores. <i>FEBS Journal</i> , 2006, 273, 971-981.	2.2	97
7	Peptides Derived from Apoptotic Bax and Bid Reproduce the Poration Activity of the Parent Full-Length Proteins. <i>Biophysical Journal</i> , 2005, 88, 3976-3990.	0.2	91
8	Hydrophobic mismatch of mobile transmembrane helices: Merging theory and experiments. <i>Biochimica Et Biophysica Acta - Biomembranes</i> , 2012, 1818, 1242-1249.	1.4	88
9	Analysis of the Paramagnetic Copper(II) Site of Amicyanin by 1H NMR Spectroscopy. <i>Biochemistry</i> , 1996, 35, 3085-3092.	1.2	77
10	Pores Formed by Bax Relax to a Smaller Size and Keep at Equilibrium. <i>Biophysical Journal</i> , 2010, 99, 2917-2925.	0.2	77
11	Stability of Asymmetric Lipid Bilayers Assessed by Molecular Dynamics Simulations. <i>Journal of the American Chemical Society</i> , 2009, 131, 15194-15202.	6.6	68
12	1 H NMR spectroscopy of the binuclear Cu(II) active site of Streptomyces antibioticus tyrosinase. <i>FEBS Letters</i> , 1999, 442, 215-220.	1.3	64
13	Understanding the Electronic Properties of the Cu Site from the Soluble Domain of Cytochrome c Oxidase through Paramagnetic 1H NMR. <i>Biochemistry</i> , 1998, 37, 7378-7389.	1.2	63
14	The Dynamic Orientation of Membrane-Bound Peptides: Bridging Simulations and Experiments. <i>Biophysical Journal</i> , 2007, 93, 4278-4288.	0.2	62
15	Influence of Proline Residues in Transmembrane Helix Packing. <i>Journal of Molecular Biology</i> , 2004, 335, 631-640.	2.0	59
16	Paramagnetic Cobalt and Nickel Derivatives of Alcaligenes denitrificans Azurin and Its M121Q Mutant. A 1H NMR Study. <i>Biochemistry</i> , 1996, 35, 1810-1819.	1.2	55
17	Determination of the Magnetic Axes of Cobalt(II) and Nickel(II) Azurins from 1H NMR Data: Influence of the Metal and Axial Ligands on the Origin of Magnetic Anisotropy in Blue Copper Proteins. <i>Biochemistry</i> , 1998, 37, 8659-8673.	1.2	53
18	Self-Assembling of Peptide/Membrane Complexes by Atomistic Molecular Dynamics Simulations. <i>Biophysical Journal</i> , 2007, 92, 903-912.	0.2	53

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19	Switchable Bactericidal Effects from Novel Silica-Coated Silver Nanoparticles Mediated by Light Irradiation. <i>Langmuir</i> , 2011, 27, 2826-2833.	1.6	52
20	Bax-derived membrane-active peptides act as potent and direct inducers of apoptosis in cancer cells. <i>Journal of Cell Science</i> , 2011, 124, 556-564.	1.2	50
21	Kinetic and paramagnetic NMR investigations of the inhibition of <i>Streptomyces antibioticus</i> tyrosinase. <i>Journal of Molecular Catalysis B: Enzymatic</i> , 2000, 8, 27-35.	1.8	46
22	Solid State NMR Structure Analysis of the Antimicrobial Peptide Gramicidin in Lipid Membranes: Concentration-Dependent Re-alignment and Self-Assembly as a $\beta$ -Barrel. <i>Topics in Current Chemistry</i> , 2008, 273, 139-154.	4.0	46
23	EPR and Magnetic Susceptibility Studies of Cobalt(II)- and Nickel(II)-Substituted Azurins from <i>Pseudomonas aeruginosa</i> . Electronic Structure of the Active Sites. <i>Inorganic Chemistry</i> , 1996, 35, 2737-2741.	1.9	44
24	The Crystal Structure of Nickel(II)-Azurin. <i>FEBS Journal</i> , 1995, 228, 653-657.	0.2	44
25	Overlap and diversity in antimicrobial peptide databases: compiling a non-redundant set of sequences. <i>Bioinformatics</i> , 2015, 31, 2553-2559.	1.8	42
26	<sup>1</sup> H-NMR Study of a Cobalt-Substituted Blue Copper Protein: <i>Pseudomonas Aeruginosa</i> Co(II)-Azurin. <i>FEBS Journal</i> , 1995, 231, 358-369.	0.2	42
27	COSY and NOESY characterization of cobalt(II)-substituted azurin from <i>Pseudomonas aeruginosa</i> . <i>Inorganic Chemistry</i> , 1993, 32, 3587-3588.	1.9	41
28	Electron relaxation and solvent accessibility of the metal site in wild-type and mutated azurins as determined from nuclear magnetic relaxation dispersion experiments. <i>Journal of Biological Inorganic Chemistry</i> , 1996, 1, 551-559.	1.1	41
29	Paramagnetic NMR studies of blue and purple copper proteins. , 1999, 5, S19-S32.		40
30	Double-spanning Plant Viral Movement Protein Integration into the Endoplasmic Reticulum Membrane Is Signal Recognition Particle-dependent, Translocon-mediated, and Concerted. <i>Journal of Biological Chemistry</i> , 2005, 280, 25907-25912.	1.6	40
31	Influence of Whole-Body Dynamics on <sup>15</sup> N PISEMA NMR Spectra of Membrane Proteins: A Theoretical Analysis. <i>Biophysical Journal</i> , 2009, 96, 3233-3241.	0.2	40
32	Paramagnetic NMR investigations of Co(II) and Ni(II) amicyanin. <i>Journal of Biological Inorganic Chemistry</i> , 1999, 4, 457-467.	1.1	34
33	Amino acid substitutions enhancing thermostability of <i>Bacillus polymyxa</i> $\beta$ -glucosidase A. <i>Biochemical Journal</i> , 1996, 314, 833-838.	1.7	33
34	<sup>19</sup> F NMR screening of unrelated antimicrobial peptides shows that membrane interactions are largely governed by lipids. <i>Biochimica Et Biophysica Acta - Biomembranes</i> , 2014, 1838, 2260-2268.	1.4	33
35	The Dynamic Properties of the M121H Azurin Metal Site as Studied by NMR of the Paramagnetic Cu(II) and Co(II) Metalloderivatives. <i>Journal of Biological Chemistry</i> , 1998, 273, 177-185.	1.6	30
36	Permeabilization of the Outer Mitochondrial Membrane by Bcl-2 Proteins. <i>Advances in Experimental Medicine and Biology</i> , 2010, 677, 91-105.	0.8	30

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37	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
38	Physical-mechanical effects of Nd:YAG laser on the surface of sound dental enamel. Biomaterials, 1993, 14, 313-316.	5.7	25
39	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
40	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
41	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
42	1H 2D-NMR characterization of Ni(II)-substituted azurin from Pseudomonas aeruginosa. Magnetic Resonance in Chemistry, 1993, 31, S41-S46.	1.1	21
43	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
44	Spontaneous and Stress-Induced Pore Formation in Membranes: Theory, Experiments and Simulations. Journal of Membrane Biology, 2019, 252, 241-260.	1.0	20
45	Îµ-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
46	Orientational Landscapes of Peptides in Membranes: Prediction of <sup>2</sup> H NMR Couplings in a Dynamic Context. Biochemistry, 2009, 48, 11441-11448.	1.2	17
47	Direct Observation of Nanometer-Scale Pores of Melittin in Supported Lipid Monolayers. Langmuir, 2015, 31, 3146-3158.	1.6	16
48	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
49	1H NMR and UV-vis spectroscopic characterization of sulfonamide complexes of nickel(II)-carbonic anhydrase. Resonance assignments based on NOE effects. Journal of Inorganic Biochemistry, 1992, 45, 231-243.	1.5	15
50	1D- and 2D-NMR studies of the pH effects on the metal-site geometry in nickel(II)-azurin from Pseudomonas aeruginosa. Journal of the Chemical Society Chemical Communications, 1993, .	2.0	14
51	Global stability of protein folding from an empirical free energy function. Journal of Theoretical Biology, 2013, 321, 44-53.	0.8	13
52	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
53	Peptides in apoptosis research. Journal of Peptide Science, 2002, 8, 543-560.	0.8	10
54	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

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55	Some morphologic changes induced by Nd:YAG laser on the noncoated enamel surface: A scanning electron microscopy study. <i>Lasers in Surgery and Medicine</i> , 1992, 12, 131-136.	1.1	9
56	Two-dimensional <sup>1</sup> H NMR spectra of ferricytochrome c 551 from <i>Pseudomonas aeruginosa</i> . <i>FEBS Letters</i> , 1993, 324, 305-308.	1.3	9
57	A Hooke's law-based approach to protein folding rate. <i>Journal of Theoretical Biology</i> , 2015, 364, 407-417.	0.8	9
58	Interaction of sulphate and chloride with cobalt(II)-carbonic anhydrase. <i>Journal of Inorganic Biochemistry</i> , 1990, 40, 245-253.	1.5	8
59	The Crystal Structure of Nickel(II)-Azurin. <i>FEBS Journal</i> , 1995, 228, 653-657.	0.2	6
60	Spectroscopic characterization of nickel(II) carboxypeptidase. <i>Journal of the Chemical Society Dalton Transactions</i> , 1992, , 1443.	1.1	5
61	Spectroscopic studies of the interaction of nickel(II) carboxypeptidase with phosphate and pyrophosphate. <i>Journal of the Chemical Society Dalton Transactions</i> , 1992, , 713-717.	1.1	3
62	Canonical Azimuthal Rotations and Flanking Residues Constrain the Orientation of Transmembrane Helices. <i>Biophysical Journal</i> , 2013, 104, 1508-1516.	0.2	3
63	A photoswitchable helical peptide with light-controllable interface/transmembrane topology in lipidic membranes. <i>IScience</i> , 2021, 24, 102771.	1.9	3
64	<sup>1</sup> H NMR Study of a Cobalt-Substituted Blue Copper Protein: <i>Pseudomonas Aeruginosa</i> Co(II)-Azurin. <i>FEBS Journal</i> , 1995, 231, 358-369.	0.2	2
65	Interaction of carboxylate inhibitors with the active site of nickel(II) carboxypeptidase A. <i>Journal of the Chemical Society Dalton Transactions</i> , 1992, , 3317-3324.	1.1	1
66	Interaction of cobalt ions with carboxypeptidase A. <i>Journal of Inorganic Biochemistry</i> , 1994, 53, 1-11.	1.5	1
67	Photoswitchable bactericidal effects from novel silica-coated silver nanoparticles. <i>Proceedings of SPIE</i> , 2011, , .	0.8	1
68	Îŕ-potential determination using a ZetaMeter-Dynamic Speckle assembly. , 2012, , .		1
69	The Alignment of Membrane-Active Peptides Depends on the Lipid Phase State as Viewed by solid state <sup>19</sup> F-NMR. <i>Biophysical Journal</i> , 2009, 96, 156a.	0.2	0
70	Experiments Meet Hydrophobic Mismatch: A Re-evaluation Of The Orientation Of Model Transmembrane Peptides From Solid-State NMR. <i>Biophysical Journal</i> , 2009, 96, 159a.	0.2	0
71	Structure Of Complexes Of Helix-5 From Bax With Lipid Membranes. <i>Biophysical Journal</i> , 2009, 96, 159a.	0.2	0
72	Influence of Dynamics on The Analysis of Solid-State NMR Data From Membrane-bound Peptides. <i>Biophysical Journal</i> , 2009, 96, 408a-409a.	0.2	0