Francesca M Marassi

List of Publications by Year
in descending order

77	3,621	201674 27	138484 58
papers	citations	h-index	g-index

79	79	79	3003
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	Structure of the chemokine receptor CXCR1 in phospholipid bilayers. Nature, 2012, 491, 779-783.	27.8	407
2	Structure Determination of Membrane Proteins by NMR Spectroscopy. Chemical Reviews, 2004, 104, 3587-3606.	47.7	396
3	A Solid-State NMR Index of Helical Membrane Protein Structure and Topology. Journal of Magnetic Resonance, 2000, 144, 150-155.	2.1	345
4	Simultaneous assignment and structure determination of a membrane protein from NMR orientational restraints. Protein Science, 2003, 12, 403-411.	7.6	183
5	Dipolar Waves as NMR Maps of Protein Structure. Journal of the American Chemical Society, 2002, 124, 4206-4207.	13.7	109
6	Expression, purification, and activities of full-length and truncated versions of the integral membrane protein Vpu from HIV-1. Protein Science, 2009, 11, 546-557.	7.6	108
7	Dipolar Waves Map the Structure and Topology of Helices in Membrane Proteins. Journal of the American Chemical Society, 2003, 125, 8928-8935.	13.7	99
8	Bicelles: A natural â€˜molecular goniometerâ€™ for structural, dynamical and topological studies of molecules in membranes. Biochimie, 2009, 91, 744-751.	2.6	97
9	Structure Determination of a Membrane Protein in Proteoliposomes. Journal of the American Chemical Society, 2012, 134, 2047-2056.	13.7	89
10	Orientation of Cecropin A Helices in Phospholipid Bilayers Determined by Solid-State NMR Spectroscopy. Biophysical Journal, 1999, 77, 3152-3155.	0.5	88
11	A Simple Approach to Membrane Protein Secondary Structure and Topology based on NMR Spectroscopy. Biophysical Journal, 2001, 80, 994-1003.	0.5	81
12	Structure of the Na,K-ATPase Regulatory Protein FXYD1 in Micellesâ€. Biochemistry, 2007, 46, 6774-6783.	2.5	81
13	FXYD Proteins Reverse Inhibition of the Na+-K+ Pump Mediated by Glutathionylation of Its Î²1 Subunit. Journal of Biological Chemistry, 2011, 286, 18562-18572.	3.4	79
14	Nuclear Magnetic Resonance of Membrane-Associated Peptides and Proteins. Methods in Enzymology, 2001, 339, 285-313.	1.0	72
15	Structure and Dynamics of the Membrane-Bound Form of Pf1 Coat Protein: Implications of Structural Rearrangement for Virus Assembly. Biophysical Journal, 2010, 99, 1465-1474.	0.5	70
16	Applications of NMR to membrane proteins. Archives of Biochemistry and Biophysics, 2017, 628, 92-101.	3.0	65
17	Orientation of the Escherichia coli Outer Membrane Protein OmpX in Phospholipid Bilayer Membranes Determined by Solid-State NMR. Biochemistry, 2008, 47, 6531-6538.	2.5	59
18	Conformation of BCL-XL upon Membrane Integration. Journal of Molecular Biology, 2015, 427, 2262-2270.	4.2	54

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19	Conformation of Membrane-associated Proapoptotic tBid. Journal of Biological Chemistry, 2004, 279, 28954-28960.	3.4	52
20	Structural Similarity of a Membrane Protein in Micelles and Membranes. Journal of the American Chemical Society, 2007, 129, 8078-8079.	13.7	50
21	A practical implicit solvent potential for NMR structure calculation. Journal of Magnetic Resonance, 2014, 243, 54-64.	2.1	45
22	Surface acoustic wave sensor response and molecular modeling: selective binding of nitrobenzene derivatives to (aminopropyl)triethoxysilane. Analytical Chemistry, 1990, 62, 32-37.	6.5	43
23	Regulation of apoptosis by an intrinsically disordered region of Bcl-xL. Nature Chemical Biology, 2018, 14, 458-465.	8.0	42
24	Structural studies of apoptosis and ion transport regulatory proteins in membranes. Magnetic Resonance in Chemistry, 2004, 42, 172-179.	1.9	40
25	Serine 68 Phospholemman Phosphorylation during Forskolin-Induced Swine Carotid Artery Relaxation. Journal of Vascular Research, 2005, 42, 483-491.	1.4	35
26	Influence of the lipid membrane environment on structure and activity of the outer membrane protein Ail from Yersinia pestis. Biochimica Et Biophysica Acta - Biomembranes, 2015, 1848, 712-720.	2.6	32
27	Structure of monomeric Interleukin-8 and its interactions with the N-terminal Binding Site-I of CXCR1 by solution NMR spectroscopy. Journal of Biomolecular NMR, 2017, 69, 111-121.	2.8	31
28	High quality NMR structures: a new force field with implicit water and membrane solvation for Xplor-NIH. Journal of Biomolecular NMR, 2017, 67, 35-49.	2.8	30
29	NMR structural studies of the bacterial outer membrane protein OmpX in oriented lipid bilayer membranes. Biochimica Et Biophysica Acta - Biomembranes, 2007, 1768, 3216-3224.	2.6	29
30	Mapping the Interaction of Pro-Apoptotic tBID with Pro-Survival BCL-XL. Biochemistry, 2009, 48, 8704-8711.	2.5	28
31	Structure determination of membrane proteins in five easy pieces. Methods, 2011, 55, 363-369.	3.8	28
32	Structural Insights into the Yersinia pestis Outer Membrane Protein Ail in Lipid Bilayers. Journal of Physical Chemistry B, 2017, 121, 7561-7570.	2.6	28
33	Using pisa pies to resolve ambiguities in angular constraints from PISEMA spectra of aligned proteins. Journal of Biomolecular NMR, 2002, 23, 239-242.	2.8	27
34	Bcl-XL as a fusion protein for the high-level expression of membrane-associated proteins. Protein Science, 2005, 14, 948-955.	7.6	27
35	The Structure of the Mercury Transporter MerF in Phospholipid Bilayers: A Large Conformational Rearrangement Results from N-Terminal Truncation. Journal of the American Chemical Society, 2013, 135, 9299-9302.	13.7	27
36	Membrane Protein Structure Determination in Membrana. Accounts of Chemical Research, 2013, 46, 2182-2190.	15.6	27

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37	Structures of the FXYD regulatory proteins in lipid micelles and membranes. Journal of Bioenergetics and Biomembranes, 2007, 39, 379-383.	2.3	25
38	Yersinia pestis uses the Ail outer membrane protein to recruit vitronectin. Microbiology (United) Tj ETQq0 0 0 rgBT /Overlock 10 Tf 50 70	1.8	25
39	A Practical Implicit Membrane Potential for NMR Structure Calculations of Membrane Proteins. Biophysical Journal, 2015, 109, 574-585.	0.5	24
40	Solid-state NMR of the Yersinia pestis outer membrane protein Ail in lipid bilayer nanodiscs sedimented by ultracentrifugation. Journal of Biomolecular NMR, 2015, 61, 275-286.	2.8	24
41	Backbone structure of Yersinia pestis Ail determined in micelles by NMR-restrained simulated annealing with implicit membrane solvation. Journal of Biomolecular NMR, 2015, 63, 59-65.	2.8	24
42	Characterization of the membrane-inserted C-terminus of cytoprotective BCL-XL. Protein Expression and Purification, 2016, 122, 56-63.	1.3	22
43	Competitive Interactions of Collagen and a Jararhagin-derived Disintegrin Peptide with the Integrin Î±2-I Domain. Journal of Biological Chemistry, 2008, 283, 16665-16672.	3.4	21
44	Expression, refolding, and initial structural characterization of the Y. pestis Ail outer membrane protein in lipids. Biochimica Et Biophysica Acta - Biomembranes, 2011, 1808, 482-489.	2.6	21
45	The Anti-angiogenic Peptide Anginex Disrupts the Cell Membrane. Journal of Molecular Biology, 2006, 356, 876-885.	4.2	20
46	Structure of human Vitronectin C-terminal domain and interaction with Yersinia pestis outer membrane protein Ail. Science Advances, 2019, 5, eaax5068.	10.3	19
47	Mutually constructive roles of Ail and LPS in Yersinia pestis serum survival. Molecular Microbiology, 2020, 114, 510-520.	2.5	19
48	AssignFit: A program for simultaneous assignment and structure refinement from solid-state NMR spectra. Journal of Magnetic Resonance, 2012, 214, 42-50.	2.1	18
49	NMR-Based Simulation Studies of Pf1 Coat Protein in Explicit Membranes. Biophysical Journal, 2013, 105, 691-698.	0.5	18
50	Structural basis for the association of PLEKHA7 with membrane-embedded phosphatidylinositol lipids. Structure, 2021, 29, 1029-1039.e3.	3.3	18
51	Mapping the Specific Cytoprotective Interaction of Humanin with the Pro-apoptotic Protein Bid. Chemical Biology and Drug Design, 2007, 70, 383-392.	3.2	17
52	Molecular Structure and Peptidoglycan Recognition of Mycobacterium tuberculosis ArfA (Rv0899). Journal of Molecular Biology, 2012, 416, 208-220.	4.2	17
53	Orphan Nuclear Receptor NR4A1 Binds a Novel Protein Interaction Site on Anti-apoptotic B Cell Lymphoma Gene 2 Family Proteins. Journal of Biological Chemistry, 2016, 291, 14072-14084.	3.4	17
54	Correlation of Gene and Protein Structures in the FXYD Family Proteins. Journal of Molecular Biology, 2005, 354, 743-750.	4.2	16

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55	Structure of the membrane protein MerF, a bacterial mercury transporter, improved by the inclusion of chemical shift anisotropy constraints. Journal of Biomolecular NMR, 2014, 60, 67-71.	2.8	16
56	Structure and Activity of CPNGRC: A Modified CD13/APN Peptidic Homing Motif. Chemical Biology and Drug Design, 2010, 75, 551-562.	3.2	14
57	Membrane proteins in magnetically aligned phospholipid polymer discs for solid-state NMR spectroscopy. Biochimica Et Biophysica Acta - Biomembranes, 2020, 1862, 183333.	2.6	14
58	Solid-State NMR-Restrained Ensemble Dynamics of a Membrane Protein in Explicit Membranes. Biophysical Journal, 2015, 108, 1954-1962.	0.5	11
59	High resolution solid-state NMR spectroscopy of the Yersinia pestis outer membrane protein Ail in lipid membranes. Journal of Biomolecular NMR, 2017, 67, 179-190.	2.8	11
60	Calcium and hydroxyapatite binding site of human vitronectin provides insights to abnormal deposit formation. Proceedings of the National Academy of Sciences of the United States of America, 2020, 117, 18504-18510.	7.1	11
61	Conformational States of the Cytoprotective Protein Bcl-xL. Biophysical Journal, 2020, 119, 1324-1334.	0.5	10
62	Structure of the Na,K-ATPase regulatory protein FXYD2b in micelles: Implications for membraneâ€“water interfacial arginines. Biochimica Et Biophysica Acta - Biomembranes, 2015, 1848, 299-306.	2.6	9
63	Membrane Protein Structure Determination: Back to the Membrane. Methods in Molecular Biology, 2013, 1063, 145-158.	0.9	8
64	Reconstitution and Characterization of BCL-2 Family Proteins in Lipid Bilayer Nanodiscs. Methods in Molecular Biology, 2019, 1877, 233-246.	0.9	8
65	A periplasmic cinched protein is required for siderophore secretion and virulence of Mycobacterium tuberculosis. Nature Communications, 2022, 13, 2255.	12.8	8
66	Correlating the Structure and Activity of Y.Âpestis Ail in a Bacterial Cell Envelope. Biophysical Journal, 2021, 120, 453-462.	0.5	7
67	Improved chemical shift prediction by Rosetta conformational sampling. Journal of Biomolecular NMR, 2012, 54, 237-243.	2.8	6
68	BAX and BAK Caught in the Act. Molecular Cell, 2009, 36, 353-354.	9.7	4
69	Mycobacterium tuberculosis Rv0899 defines a family of membrane proteins widespread in nitrogenâ€fixing bacteria. Proteins: Structure, Function and Bioinformatics, 2011, 79, 2946-2955.	2.6	4
70	PLEKHA7 signaling is necessary for the growth of mutant KRAS driven colorectal cancer. Experimental Cell Research, 2021, 409, 112930.	2.6	4
71	NMR Structure Determination of Proteins in Bilayer Lipid Membranes: The FXYD Family Proteins. Behavior Research Methods, 2005, 2, 77-93.	4.0	2
72	The Discreet Charm of the Curve. Biophysical Journal, 2013, 104, 1215-1216.	0.5	2

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73	Lipoprotein Particle Formation by Proapoptotic tBid. Biophysical Journal, 2018, 115, 533-542.	0.5	2
74	Structure of the Mycobacterium Tuberculosis Virulence Factor Rv0899 (ompATb). Biophysical Journal, 2010, 98, 624a-625a.	0.5	0
75	Structural and Functional Studies of the Outer Membrane Protein Ail from Yersinia Pestis. Biophysical Journal, 2014, 106, 47a.	0.5	0
76	NMR Structural Studies of the Yersinia Pestis Outer Membrane Protein AIL in Lipid Bilayers. Biophysical Journal, 2018, 114, 237a.	0.5	0
77	Determining Vitronectin's Role in Forming the Hallmark of Age-Related Macular Degeneration. Biophysical Journal, 2021, 120, 202a.	0.5	0