Melanie J Cocco

List of Publications by Year
in descending order

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44 papers	2,312 citations	257450 24 h-index	254184 43 g-index
47 all docs	47 docs citations	47 times ranked	2782 citing authors

#	Article	IF	Citations
1	Structure and Stability Changes of Human IgG1 Fc as a Consequence of Methionine Oxidation. Biochemistry, 2008, 47, 5088-5100.	2.5	262
2	Design of Stable Î±-Helical Arrays from an Idealized TPR Motif. Structure, 2003, 11, 497-508.	3.3	256
3	Interhelical hydrogen bonding drives strong interactions in membrane proteins. Nature Structural Biology, 2000, 7, 154-160.	9.7	226
4	Amphipols From A to Z. Annual Review of Biophysics, 2011, 40, 379-408.	10.0	226
5	Structural comparison of apomyoglobin and metaquomyoglobin: pH titration of histidines by NMR spectroscopy. Biochemistry, 1992, 31, 6481-6491.	2.5	91
6	Specific interactions of distamycin with G-quadruplex DNA. Nucleic Acids Research, 2003, 31, 2944-2951.	14.5	86
7	Direct Detection of Monovalent Metal Ion Binding to a DNA G-quartet by205Tl NMR. Journal of the American Chemical Society, 2000, 122, 3240-3241.	13.7	78
8	Characterization of hydrophobic cores in apomyoglobin: a proton NMR spectroscopy study. Biochemistry, 1990, 29, 11067-11072.	2.5	75
9	Structural and Functional Analyses of the Major Outer Membrane Protein of Chlamydia trachomatis. Journal of Bacteriology, 2007, 189, 6222-6235.	2.2	75
10	Protein design to understand peptide ligand recognition by tetratricopeptide repeat proteins. Protein Engineering, Design and Selection, 2004, 17, 399-409.	2.1	67
11	The native state of apomyoglobin described by proton NMR spectroscopy: Interaction with the paramagnetic probe HyTEMPO and the fluorescent dye ANS. Protein Science, 1994, 3, 267-281.	7.6	66
12	Electropositive Charge in Î±-Defensin Bactericidal Activity: Functional Effects of Lys-for-Arg Substitutions Vary with the Peptide Primary Structure. Infection and Immunity, 2009, 77, 5035-5043.	2.2	57
13	Amphipols stabilize the Chlamydia major outer membrane protein and enhance its protective ability as a vaccine. Vaccine, 2011, 29, 4623-4631.	3.8	54
14	Implications of structures of synaptic tetramers of ÂÂ resolvase for the mechanism of recombination. Proceedings of the National Academy of Sciences of the United States of America, 2006, 103, 10642-10647.	7.1	47
15	Increased Immunoaccessibility of MOMP Epitopes in a Vaccine Formulated with Amphipols May Account for the Very Robust Protection Elicited against a Vaginal Challenge with Chlamydia muridarum. Journal of Immunology, 2014, 192, 5201-5213.	0.8	47
16	Differential Effects on Human Immunodeficiency Virus Type 1 Replication by Î±-Defensins with Comparable Bactericidal Activities. Journal of Virology, 2004, 78, 11622-11631.	3.4	45
17	The native state of apomyoglobin described by proton NMR spectroscopy: The Aâ€Bâ€Câ€H interface of wildâ€type sperm whale apomyoglobin. Proteins: Structure, Function and Bioinformatics, 1996, 25, 267-285.	2.6	44
18	pH Dependence of Sphingosine Aggregation. Biophysical Journal, 2009, 96, 2727-2733.	0.5	43

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19	Mixed disulfide intermediates during the reduction of disulfides by Escherichia coli thioredoxin. Biochemistry, 1995, 34, 11807-11813.	2.5	41
20	Matrix Metalloproteinase-7 Activation of Mouse Paneth Cell Pro-Î±-defensins. Journal of Biological Chemistry, 2006, 281, 28932-28942.	3.4	39
21	Conversion of Phospholamban into a Soluble Pentameric Helical Bundleâ€. Biochemistry, 2001, 40, 6636-6645.	2.5	37
22	The native state of apomyoglobin described by proton NMR spectroscopy: The A-B-G-H interface of wild-type sperm whale apomyoglobin. Proteins: Structure, Function and Bioinformatics, 1996, 25, 267-285.	2.6	33
23	Structural features of the protoporphyrin-apomyoglobin complex: a proton NMR spectroscopy study. Biochemistry, 1990, 29, 11057-11067.	2.5	29
24	The HSV-1 ICP27 RGG box specifically binds flexible, GC-rich sequences but not G-quartet structures. Nucleic Acids Research, 2009, 37, 7290-7301.	14.5	28
25	Exploring the interaction between the protein kinase A catalytic subunit and caveolin-1 scaffolding domain with shotgun scanning, oligomer complementation, NMR, and docking. Protein Science, 2006, 15, 478-486.	7.6	23
26	Flexibility and Adaptability in Binding of E. coli Cytidine Repressor to Different Operators Suggests a Role in Differential Gene Regulation. Journal of Molecular Biology, 2006, 362, 271-286.	4.2	22
27	Protein folding at the membrane interface, the structure of Nogo-66 requires interactions with a phosphocholine surface. Proceedings of the National Academy of Sciences of the United States of America, 2010, 107, 6847-6851.	7.1	22
28	ICP27 Phosphorylation Site Mutants Display Altered Functional Interactions with Cellular Export Factors Aly/REF and TAP/NXF1 but Are Able To Bind Herpes Simplex Virus 1 RNA. Journal of Virology, 2010, 84, 2212-2222.	3.4	22
29	Markov state models and NMR uncover an overlooked allosteric loop in p53. Chemical Science, 2021, 12, 1891-1900.	7.4	22
30	Three Arginine Residues within the RGG Box Are Crucial for ICP27 Binding to Herpes Simplex Virus 1 GC-Rich Sequences and for Efficient Viral RNA Export. Journal of Virology, 2010, 84, 6367-6376.	3.4	21
31	Multiple Conformations of the Cytidine Repressor DNA-Binding Domain Coalesce to One upon Recognition of a Specific DNA Surface. Biochemistry, 2011, 50, 6622-6632.	2.5	21
32	Long-Term Stability of a Vaccine Formulated with the Amphipol-Trapped Major Outer Membrane Protein from Chlamydia trachomatis. Journal of Membrane Biology, 2014, 247, 1053-1065.	2.1	15
33	Assignment of backbone 1H, 13C and 15N resonances of human IgG1 Fc (51.4ÂkDa). Biomolecular NMR Assignments, 2007, 1, 233-235.	0.8	14
34	The Scope of Phage Display for Membrane Proteins. Journal of Molecular Biology, 2011, 414, 499-510.	4.2	14
35	Mutations in the B1 domain of protein G that delay the onset of amyloid fibril formation in vitro. Protein Science, 2003, 12, 567-576.	7.6	13
36	Co-delivery of amphipol-conjugated adjuvant with antigen, and adjuvant combinations, enhance immune protection elicited by a membrane protein-based vaccine against a mucosal challenge with Chlamydia. Vaccine, 2018, 36, 6640-6649.	3.8	12

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37	Histidine 82 influences heme orientational isomerism in sperm whale myoglobin. Long-range effect due to mutation of a conserved residue. Journal of the American Chemical Society, 1992, 114, 11000-11001.	13.7	11
38	Improved protection against Chlamydia muridarum using the native major outer membrane protein trapped in Resiquimod-carrying amphipols and effects in protection with addition of a Th1 (CpG-1826) and a Th2 (Montanide ISA 720) adjuvant. Vaccine, 2020, 38, 4412-4422.	3.8	9
39	Synthesis, Structure, and Activities of an Oral Mucosal Î±-Defensin from Rhesus Macaque. Journal of Biological Chemistry, 2008, 283, 35869-35877.	3.4	7
40	Assignment of 1H, 13C and 15N resonances of the reduced human IgG1 CH3 domain. Biomolecular NMR Assignments, 2007, 1, 93-94.	0.8	4
41	Chemical shift mapping of Î³Î´ resolvase dimer and activated tetramer: Mechanistic implications for DNA strand exchange. Biochimica Et Biophysica Acta - Proteins and Proteomics, 2008, 1784, 2086-2092.	2.3	2
42	1H, 13C, and 15N backbone resonance assignments of the full-length 40ÂkDa S. acidocaldarius Y-family DNA polymerase, dinB homolog. Biomolecular NMR Assignments, 2015, 9, 441-445.	0.8	2
43	Glutamate provides a key structural contact between reticulon-4 (Nogo-66) and phosphocholine. Biochimica Et Biophysica Acta - Biomembranes, 2014, 1838, 2350-2356.	2.6	1
44	Determinants of Mouse Alphaâ€Defensin Bactericidal Activity. FASEB Journal, 2006, 20, A649.	0.5	0