

Melanie J Cocco

List of Publications by Year in Descending Order

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The third column is the impact factor (IF) of the journal, and the fourth column is the number of citations of the article.

44
papers

2,061
citations

24
h-index

45
g-index

47
ext. papers

2,189
ext. citations

6
avg, IF

4.19
L-index

#	Paper	IF	Citations
44	Improved protection against <i>Chlamydia muridarum</i> 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. <i>Vaccine</i> , 2020 , 38, 4412-4422	4.1	5
43	Markov state models and NMR uncover an overlooked allosteric loop in p53. <i>Chemical Science</i> , 2020 , 12, 1891-1900	9.4	7
42	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 <i>Chlamydia</i> . <i>Vaccine</i> , 2018 , 36, 6640-6649	4.1	10
41	(1)H, (13)C, and (15)N backbone resonance assignments of the full-length 40 kDa <i>S. acidocaldarius</i> Y-family DNA polymerase, dinB homolog. <i>Biomolecular NMR Assignments</i> , 2015 , 9, 441-5	0.7	0
40	Long-term stability of a vaccine formulated with the amphipol-trapped major outer membrane protein from <i>Chlamydia trachomatis</i> . <i>Journal of Membrane Biology</i> , 2014 , 247, 1053-65	2.3	15
39	Increased immunoaccessibility of MOMP epitopes in a vaccine formulated with amphipols may account for the very robust protection elicited against a vaginal challenge with <i>Chlamydia muridarum</i> . <i>Journal of Immunology</i> , 2014 , 192, 5201-13	5.3	41
38	Glutamate provides a key structural contact between reticulon-4 (Nogo-66) and phosphocholine. <i>Biochimica Et Biophysica Acta - Biomembranes</i> , 2014 , 1838, 2350-6	3.8	1
37	Amphipols from A to Z. <i>Annual Review of Biophysics</i> , 2011 , 40, 379-408	21.1	200
36	The scope of phage display for membrane proteins. <i>Journal of Molecular Biology</i> , 2011 , 414, 499-510	6.5	13
35	Amphipols stabilize the <i>Chlamydia</i> major outer membrane protein and enhance its protective ability as a vaccine. <i>Vaccine</i> , 2011 , 29, 4623-31	4.1	46
34	Multiple conformations of the cytidine repressor DNA-binding domain coalesce to one upon recognition of a specific DNA surface. <i>Biochemistry</i> , 2011 , 50, 6622-32	3.2	15
33	Protein folding at the membrane interface, the structure of Nogo-66 requires interactions with a phosphocholine surface. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2010 , 107, 6847-51	11.5	21
32	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. <i>Journal of Virology</i> , 2010 , 84, 2212-22	6.6	20
31	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. <i>Journal of Virology</i> , 2010 , 84, 6367-76	6.6	19
30	The HSV-1 ICP27 RGG box specifically binds flexible, GC-rich sequences but not G-quartet structures. <i>Nucleic Acids Research</i> , 2009 , 37, 7290-301	20.1	25
29	Electropositive charge in alpha-defensin bactericidal activity: functional effects of Lys-for-Arg substitutions vary with the peptide primary structure. <i>Infection and Immunity</i> , 2009 , 77, 5035-43	3.7	49
28	pH dependence of sphingosine aggregation. <i>Biophysical Journal</i> , 2009 , 96, 2727-33	2.9	38

27	Structure and stability changes of human IgG1 Fc as a consequence of methionine oxidation. <i>Biochemistry</i> , 2008 , 47, 5088-100	3.2	223
26	Synthesis, structure, and activities of an oral mucosal alpha-defensin from rhesus macaque. <i>Journal of Biological Chemistry</i> , 2008 , 283, 35869-77	5.4	5
25	Chemical shift mapping of gammadelta resolvase dimer and activated tetramer: mechanistic implications for DNA strand exchange. <i>Biochimica Et Biophysica Acta - Proteins and Proteomics</i> , 2008 , 1784, 2086-92	4	2
24	Assignment of 1H, 13C and 15N resonances of the reduced human IgG1 C(H)3 domain. <i>Biomolecular NMR Assignments</i> , 2007 , 1, 93-4	0.7	3
23	Assignment of backbone (1)H, (13)C and (15)N resonances of human IgG1 Fc (51.4 kDa). <i>Biomolecular NMR Assignments</i> , 2007 , 1, 233-5	0.7	12
22	Structural and functional analyses of the major outer membrane protein of Chlamydia trachomatis. <i>Journal of Bacteriology</i> , 2007 , 189, 6222-35	3.5	65
21	Implications of structures of synaptic tetramers of gamma delta resolvase for the mechanism of recombination. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2006 , 103, 10642-7	11.5	45
20	Matrix metalloproteinase-7 activation of mouse paneth cell pro-alpha-defensins: SER43 down arrow ILE44 proteolysis enables membrane-disruptive activity. <i>Journal of Biological Chemistry</i> , 2006 , 281, 28932-42	5.4	37
19	Exploring the interaction between the protein kinase A catalytic subunit and caveolin-1 scaffolding domain with shotgun scanning, oligomer complementation, NMR, and docking. <i>Protein Science</i> , 2006 , 15, 478-86	6.3	21
18	Flexibility and adaptability in binding of E. coli cytidine repressor to different operators suggests a role in differential gene regulation. <i>Journal of Molecular Biology</i> , 2006 , 362, 271-86	6.5	17
17	Determinants of Mouse Alpha-Defensin Bactericidal Activity. <i>FASEB Journal</i> , 2006 , 20, A649	0.9	
16	Differential effects on human immunodeficiency virus type 1 replication by alpha-defensins with comparable bactericidal activities. <i>Journal of Virology</i> , 2004 , 78, 11622-31	6.6	40
15	Protein design to understand peptide ligand recognition by tetratricopeptide repeat proteins. <i>Protein Engineering, Design and Selection</i> , 2004 , 17, 399-409	1.9	63
14	Design of stable alpha-helical arrays from an idealized TPR motif. <i>Structure</i> , 2003 , 11, 497-508	5.2	235
13	Specific interactions of distamycin with G-quadruplex DNA. <i>Nucleic Acids Research</i> , 2003 , 31, 2944-51	20.1	78
12	Mutations in the B1 domain of protein G that delay the onset of amyloid fibril formation in vitro. <i>Protein Science</i> , 2003 , 12, 567-76	6.3	13
11	Conversion of phospholamban into a soluble pentameric helical bundle. <i>Biochemistry</i> , 2001 , 40, 6636-45	3.2	33
10	Interhelical hydrogen bonding drives strong interactions in membrane proteins. <i>Nature Structural Biology</i> , 2000 , 7, 154-60		212

9	Direct Detection of Monovalent Metal Ion Binding to a DNA G-quartet by 205Tl NMR. <i>Journal of the American Chemical Society</i> , 2000 , 122, 3240-3241	16.4	75
8	The native state of apomyoglobin described by proton NMR spectroscopy: the A-B-G-H interface of wild-type sperm whale apomyoglobin. <i>Proteins: Structure, Function and Bioinformatics</i> , 1996 , 25, 267-85	4.2	26
7	The native state of apomyoglobin described by proton NMR spectroscopy: The A-B-G-H interface of wild-type sperm whale apomyoglobin. <i>Proteins: Structure, Function and Bioinformatics</i> , 1996 , 25, 267-285	4.2	43
6	Mixed disulfide intermediates during the reduction of disulfides by Escherichia coli thioredoxin. <i>Biochemistry</i> , 1995 , 34, 11807-13	3.2	39
5	The native state of apomyoglobin described by proton NMR spectroscopy: interaction with the paramagnetic probe HyTEMPO and the fluorescent dye ANS. <i>Protein Science</i> , 1994 , 3, 267-81	6.3	61
4	Structural comparison of apomyoglobin and metaquomyoglobin: pH titration of histidines by NMR spectroscopy. <i>Biochemistry</i> , 1992 , 31, 6481-91	3.2	83
3	Histidine 82 influences heme orientational isomerism in sperm whale myoglobin. Long-range effect due to mutation of a conserved residue. <i>Journal of the American Chemical Society</i> , 1992 , 114, 11000-11001	16.4	10
2	Characterization of hydrophobic cores in apomyoglobin: a proton NMR spectroscopy study. <i>Biochemistry</i> , 1990 , 29, 11067-72	3.2	69
1	Structural features of the protoporphyrin-apomyoglobin complex: a proton NMR spectroscopy study. <i>Biochemistry</i> , 1990 , 29, 11057-67	3.2	26