

Melanie J Cocco

List of Publications by Citations

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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 | Design of stable alpha-helical arrays from an idealized TPR motif. <i>Structure</i> , 2003 , 11, 497-508 | 5.2 | 235 |
| 43 | Structure and stability changes of human IgG1 Fc as a consequence of methionine oxidation. <i>Biochemistry</i> , 2008 , 47, 5088-100 | 3.2 | 223 |
| 42 | Interhelical hydrogen bonding drives strong interactions in membrane proteins. <i>Nature Structural Biology</i> , 2000 , 7, 154-60 | | 212 |
| 41 | Amphipols from A to Z. <i>Annual Review of Biophysics</i> , 2011 , 40, 379-408 | 21.1 | 200 |
| 40 | Structural comparison of apomyoglobin and metaquomyoglobin: pH titration of histidines by NMR spectroscopy. <i>Biochemistry</i> , 1992 , 31, 6481-91 | 3.2 | 83 |
| 39 | Specific interactions of distamycin with G-quadruplex DNA. <i>Nucleic Acids Research</i> , 2003 , 31, 2944-51 | 20.1 | 78 |
| 38 | 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 |
| 37 | Characterization of hydrophobic cores in apomyoglobin: a proton NMR spectroscopy study. <i>Biochemistry</i> , 1990 , 29, 11067-72 | 3.2 | 69 |
| 36 | Structural and functional analyses of the major outer membrane protein of <i>Chlamydia trachomatis</i> . <i>Journal of Bacteriology</i> , 2007 , 189, 6222-35 | 3.5 | 65 |
| 35 | 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 |
| 34 | 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 |
| 33 | 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 |
| 32 | 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 |
| 31 | 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 |
| 30 | 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 |
| 29 | 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 |
| 28 | 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 |

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|----|--|------|----|
| 27 | Mixed disulfide intermediates during the reduction of disulfides by Escherichia coli thioredoxin. <i>Biochemistry</i> , 1995 , 34, 11807-13 | 3.2 | 39 |
| 26 | pH dependence of sphingosine aggregation. <i>Biophysical Journal</i> , 2009 , 96, 2727-33 | 2.9 | 38 |
| 25 | 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 |
| 24 | Conversion of phospholamban into a soluble pentameric helical bundle. <i>Biochemistry</i> , 2001 , 40, 6636-45 | 3.2 | 33 |
| 23 | 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 |
| 22 | Structural features of the protoporphyrin-apomyoglobin complex: a proton NMR spectroscopy study. <i>Biochemistry</i> , 1990 , 29, 11057-67 | 3.2 | 26 |
| 21 | 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 |
| 20 | 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 |
| 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 | 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 |
| 17 | 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 |
| 16 | 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 |
| 15 | Long-term stability of a vaccine formulated with the amphipol-trapped major outer membrane protein from Chlamydia trachomatis. <i>Journal of Membrane Biology</i> , 2014 , 247, 1053-65 | 2.3 | 15 |
| 14 | 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 |
| 13 | The scope of phage display for membrane proteins. <i>Journal of Molecular Biology</i> , 2011 , 414, 499-510 | 6.5 | 13 |
| 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 | 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 |
| 10 | 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 |

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| 9 | 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. <i>Vaccine</i> , 2018 , 36, 6640-6649 | 4.1 | 10 |
| 8 | Markov state models and NMR uncover an overlooked allosteric loop in p53. <i>Chemical Science</i> , 2020 , 12, 1891-1900 | 9.4 | 7 |
| 7 | 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. <i>Vaccine</i> , 2020 , 38, 4412-4422 | 4.1 | 5 |
| 6 | 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 |
| 5 | 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 |
| 4 | 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 |
| 3 | 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 |
| 2 | (1)H, (13)C, and (15)N backbone resonance assignments of the full-length 40 kDa S. acidocaldarius Y-family DNA polymerase, dinB homolog. <i>Biomolecular NMR Assignments</i> , 2015 , 9, 441-5 | 0.7 | 0 |
| 1 | Determinants of Mouse Alpha-Defensin Bactericidal Activity. <i>FASEB Journal</i> , 2006 , 20, A649 | 0.9 | |