

# David Cowburn

## List of Publications by Year in descending order

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28  
papers

1,061  
citations

706676

14  
h-index

563245

28  
g-index

29  
all docs

29  
docs citations

29  
times ranked

1429  
citing authors

#	ARTICLE	IF	CITATIONS
1	Direct Measurement of <sup>15</sup> N Chemical Shift Anisotropy in Solution. <i>Journal of the American Chemical Society</i> , 1998, 120, 10947-10952.	6.6	154
2	The molecular mechanism of nuclear transport revealed by atomic-scale measurements. <i>ELife</i> , 2015, 4, .	2.8	130
3	A promiscuous split intein with expanded protein engineering applications. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2017, 114, 8538-8543.	3.3	102
4	Model-Independent Analysis of <sup>15</sup> N Chemical Shift Anisotropy from NMR Relaxation Data. Ubiquitin as a Test Example. <i>Journal of the American Chemical Society</i> , 1998, 120, 7109-7110.	6.6	88
5	An Approach to Direct Determination of Protein Dynamics from <sup>15</sup> N NMR Relaxation at Multiple Fields, Independent of Variable <sup>15</sup> N Chemical Shift Anisotropy and Chemical Exchange Contributions. <i>Journal of the American Chemical Society</i> , 1999, 121, 8577-8582.	6.6	84
6	Molecular Architecture of the Major Membrane Ring Component of the Nuclear Pore Complex. <i>Structure</i> , 2017, 25, 434-445.	1.6	61
7	Structural and Dynamical Features of Inteins and Implications on Protein Splicing. <i>Journal of Biological Chemistry</i> , 2014, 289, 14506-14511.	1.6	55
8	A Full-Length Group 1 Bacterial Sigma Factor Adopts a Compact Structure Incompatible with DNA Binding. <i>Chemistry and Biology</i> , 2008, 15, 1091-1103.	6.2	51
9	Thermodynamic characterization of the multivalent interactions underlying rapid and selective translocation through the nuclear pore complex. <i>Journal of Biological Chemistry</i> , 2018, 293, 4555-4563.	1.6	47
10	Solution Structures of Fc $\mu$ RI $\pm$ -Chain Mimics: A $\beta$ -Hairpin Peptide and Its Retroenantiomer. <i>Journal of the American Chemical Society</i> , 1997, 119, 5321-5328.	6.6	44
11	Chapter 8 Segmental Isotopic Labeling of Proteins for Nuclear Magnetic Resonance. <i>Methods in Enzymology</i> , 2009, 462, 151-175.	0.4	43
12	The Effect of Finite Sampling on the Determination of Orientational Properties: A Theoretical Treatment with Application to Interatomic Vectors in Proteins. <i>Journal of the American Chemical Society</i> , 2000, 122, 10640-10649.	6.6	35
13	Dynamic intramolecular regulation of the histone chaperone nucleoplasmin controls histone binding and release. <i>Nature Communications</i> , 2017, 8, 2215.	5.8	23
14	Enzymatic semisynthesis of porcine despentapeptide (B26 $\alpha$ -30) insulin using unprotected desoctapeptide (B23 $\alpha$ -30) insulin as a substrate. <i>International Journal of Peptide and Protein Research</i> , 1986, 27, 514-521.	0.1	22
15	Deciphering the "Fuzzy" Interaction of FG Nucleoporins and Transport Factors Using Small-Angle Neutron Scattering. <i>Structure</i> , 2018, 26, 477-484.e4.	1.6	19
16	Combining biophysical methods to analyze the disulfide bond in SH2 domain of C-terminal Src kinase. <i>Biophysics Reports</i> , 2016, 2, 33-43.	0.2	15
17	An Atypical Mechanism of Split Intein Molecular Recognition and Folding. <i>Journal of the American Chemical Society</i> , 2018, 140, 11791-11799.	6.6	15
18	Structural determination of biomolecular interfaces by nuclear magnetic resonance of proteins with reduced proton density. <i>Journal of Biomolecular NMR</i> , 2010, 47, 41-54.	1.6	14

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19	Anti-DNA antibody mediated catalysis is isotype dependent. <i>Molecular Immunology</i> , 2016, 69, 33-43.	1.0	12
20	Effects of FGFR2 kinase activation loop dynamics on catalytic activity. <i>PLoS Computational Biology</i> , 2017, 13, e1005360.	1.5	10
21	Segmental Isotopic Labeling of Proteins for NMR Study Using Intein Technology. <i>Methods in Molecular Biology</i> , 2017, 1495, 131-145.	0.4	9
22	Correlation of chemical shifts predicted by molecular dynamics simulations for partially disordered proteins. <i>Journal of Biomolecular NMR</i> , 2015, 61, 35-45.	1.6	8
23	Resurfaced ZIKV EDIII nanoparticle immunogens elicit neutralizing and protective responses in vivo. <i>Cell Chemical Biology</i> , 2022, 29, 811-823.e7.	2.5	6
24	Domain interactions of C-terminal Src Kinase determined through NMR spectroscopy with segmental isotope labeling. <i>Protein and Cell</i> , 2017, 8, 67-71.	4.8	4
25	Identification of Hydrophobic Interfaces in Protein-Ligand Complexes by Selective Saturation Transfer NMR Spectroscopy. <i>Molecules</i> , 2015, 20, 21992-21999.	1.7	3
26	Integrating NOE and RDC using sum-of-squares relaxation for protein structure determination. <i>Journal of Biomolecular NMR</i> , 2017, 68, 163-185.	1.6	3
27	ANOMALOUS EXCHANGE KINETICS OF PEPTIDE AMIDE PROTONS IN AQUEOUS SOLUTIONS. <i>International Journal of Peptide and Protein Research</i> , 1981, 17, 42-47.	0.1	2
28	NMR assignment through linear programming. <i>Journal of Global Optimization</i> , 2022, 83, 3-28.	1.1	2