

# Jeremy M Berg

## List of Publications by Citations

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80  
papers

4,614  
citations

40  
h-index

67  
g-index

85  
ext. papers

4,937  
ext. citations

12.1  
avg, IF

5.35  
L-index

#	Paper	IF	Citations
80	Thermodynamic beta-sheet propensities measured using a zinc-finger host peptide. <i>Nature</i> , <b>1993</b> , 362, 267-70	50.4	343
79	Peroxisomal targeting signal-1 recognition by the TPR domains of human PEX5. <i>Nature Structural Biology</i> , <b>2000</b> , 7, 1091-5		286
78	A consensus zinc finger peptide: design, high-affinity metal binding, a pH-dependent structure, and a His to Cys sequence variant. <i>Journal of the American Chemical Society</i> , <b>1991</b> , 113, 4518-4523	16.4	215
77	Lessons from zinc-binding peptides. <i>Annual Review of Biophysics and Biomolecular Structure</i> , <b>1997</b> , 26, 357-71		211
76	Ligand variation and metal ion binding specificity in zinc finger peptides. <i>Inorganic Chemistry</i> , <b>1993</b> , 32, 937-940	5.1	203
75	Zinc fingers in <i>Caenorhabditis elegans</i> : finding families and probing pathways. <i>Science</i> , <b>1998</b> , 282, 2018-22	23.3	161
74	A 2.2 Å resolution crystal structure of a designed zinc finger protein bound to DNA. <i>Nature Structural Biology</i> , <b>1996</b> , 3, 940-5		148
73	A Fluorescent Zinc Probe Based on Metal-Induced Peptide Folding. <i>Journal of the American Chemical Society</i> , <b>1996</b> , 118, 6514-6515	16.4	145
72	On the metal ion specificity of zinc finger proteins. <i>Journal of the American Chemical Society</i> , <b>1989</b> , 111, 3759-3761	16.4	119
71	Gramicidin A crystals contain two cation binding sites per channel. <i>Nature</i> , <b>1979</b> , 279, 723-5	50.4	118
70	Synthetic approaches to the molybdenum site in nitrogenase. Preparation and structural properties of the molybdenum-iron-sulfur "double-cubane" cluster complexes [Mo <sub>2</sub> Fe <sub>6</sub> S <sub>8</sub> (SC <sub>2</sub> H <sub>5</sub> ) <sub>9</sub> ] <sup>3-</sup> and [Mo <sub>2</sub> Fe <sub>6</sub> S <sub>9</sub> (SC <sub>2</sub> H <sub>5</sub> ) <sub>8</sub> ] <sup>3-</sup> . <i>Journal of the American Chemical Society</i> , <b>1979</b> , 101, 4140-4150	16.4	117
69	The design of functional DNA-binding proteins based on zinc finger domains. <i>Chemical Reviews</i> , <b>2004</b> , 104, 789-99	68.1	108
68	Zinc Finger Domains: From Predictions to Design. <i>Accounts of Chemical Research</i> , <b>1995</b> , 28, 14-19	24.3	99
67	Redesigning the DNA-binding specificity of a zinc finger protein: a data base-guided approach. <i>Proteins: Structure, Function and Bioinformatics</i> , <b>1992</b> , 12, 101-4	4.2	95
66	The structure of a centrosymmetric protein crystal. <i>Proteins: Structure, Function and Bioinformatics</i> , <b>1993</b> , 16, 301-5	4.2	87
65	A racemic protein. <i>Journal of the American Chemical Society</i> , <b>1992</b> , 114, 4002-4003	16.4	86
64	Water exchange filter with improved sensitivity (WEX II) to study solvent-exchangeable protons. Application to the consensus zinc finger peptide CP-1. <i>Journal of Magnetic Resonance Series B</i> , <b>1996</b> , 110, 96-101		84

63	Binding of two zinc finger nuclease monomers to two specific sites is required for effective double-strand DNA cleavage. <i>Biochemical and Biophysical Research Communications</i> , <b>2005</b> , 334, 1191-1197 <sup>3,4</sup>		77
62	A comparison of the immunogenicity of a pair of enantiomeric proteins. <i>Proteins: Structure, Function and Bioinformatics</i> , <b>1993</b> , 16, 306-8	4.2	77
61	Separation of intramolecular NOE and exchange peaks in water exchange spectroscopy using spin-echo filters. <i>Journal of Biomolecular NMR</i> , <b>1996</b> , 7, 77-82	3	70
60	SCIENTIFIC COMMUNITY. Preprints for the life sciences. <i>Science</i> , <b>2016</b> , 352, 899-901	33.3	68
59	Structure-based thermodynamic analysis of a coupled metal binding-protein folding reaction involving a zinc finger peptide. <i>Biochemistry</i> , <b>2002</b> , 41, 15068-73	3.2	61
58	Electrostatic interactions across a beta-sheet. <i>Biochemistry</i> , <b>1997</b> , 36, 6218-22	3.2	57
57	Site-specific cleavage of DNA-RNA hybrids by zinc finger/FokI cleavage domain fusions. <i>Gene</i> , <b>1997</b> , 203, 43-9	3.8	56
56	Structural results relevant to the molybdenum sites in xanthine oxidase and sulfite oxidase. Crystal structures of MoO <sub>2</sub> L, L = (SCH <sub>2</sub> CH <sub>2</sub> ) <sub>2</sub> NCH <sub>2</sub> CH <sub>2</sub> X with X = SCH <sub>3</sub> , N(CH <sub>3</sub> ) <sub>2</sub> . <i>Journal of the American Chemical Society</i> , <b>1979</b> , 101, 2774-2776	16.4	56
55	Metal ion affinities of the zinc finger domains of the metal responsive element-binding transcription factor-1 (MTF1). <i>Biochemistry</i> , <b>2004</b> , 43, 5437-44	3.2	55
54	Sequential metal binding by the RING finger domain of BRCA1. <i>Biochemistry</i> , <b>1997</b> , 36, 10240-5	3.2	54
53	Water Exchange Filter (WEX Filter) for Nuclear Magnetic Resonance Studies of Macromolecules. <i>Journal of the American Chemical Society</i> , <b>1994</b> , 116, 11982-11984	16.4	51
52	Design and characterization of a ligand-binding metallopeptide. <i>Journal of the American Chemical Society</i> , <b>1991</b> , 113, 5450-5451	16.4	51
51	A direct comparison of the properties of natural and designed zinc-finger proteins. <i>Chemistry and Biology</i> , <b>1995</b> , 2, 83-9		50
50	A nonoctahedral dioxo molybdenum complex with a coordinated partial disulfide bond. <i>Journal of the American Chemical Society</i> , <b>1980</b> , 102, 3624-3626	16.4	49
49	Reduction in DNA-binding affinity of Cys2His2 zinc finger proteins by linker phosphorylation. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , <b>2004</b> , 101, 7589-93	11.5	48
48	Selective RNA binding by a single CCCH zinc-binding domain from Nup475 (Tristetraprolin). <i>Biochemistry</i> , <b>2003</b> , 42, 4626-30	3.2	48
47	Complexes of zinc finger peptides with nickel(2+) and iron(2+). <i>Inorganic Chemistry</i> , <b>1992</b> , 31, 2984-2986 <sup>5,1</sup>		48
46	NMR Study of Rapidly Exchanging Backbone Amide Protons in Staphylococcal Nuclease and the Correlation with Structural and Dynamic Properties. <i>Journal of the American Chemical Society</i> , <b>1997</b> , 119, 6844-6852	16.4	47

45	Zinc-finger proteins. <i>Current Opinion in Structural Biology</i> , <b>1993</b> , 3, 11-16	8.1	44
44	Metal and DNA binding properties of a two-domain fragment of neural zinc finger factor 1, a CCHC-type zinc binding protein. <i>Biochemistry</i> , <b>1999</b> , 38, 16826-30	3.2	43
43	DNA unwinding induced by zinc finger protein binding. <i>Biochemistry</i> , <b>1996</b> , 35, 3845-8	3.2	43
42	Pex5p binding affinities for canonical and noncanonical PTS1 peptides. <i>Proteins: Structure, Function and Bioinformatics</i> , <b>2004</b> , 55, 856-61	4.2	42
41	A Cys3His zinc-binding domain from Nup475/tristetraprolin: a novel fold with a disklike structure. <i>Biochemistry</i> , <b>2003</b> , 42, 217-21	3.2	40
40	Correlating structure and affinity for PEX5:PTS1 complexes. <i>Biochemistry</i> , <b>2003</b> , 42, 1660-6	3.2	40
39	TCGA Expedition: A Data Acquisition and Management System for TCGA Data. <i>PLoS ONE</i> , <b>2016</b> , 11, e0165395	3.95	38
38	Toward a sustainable biomedical research enterprise: Finding consensus and implementing recommendations. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , <b>2015</b> , 112, 10832-6	11.5	37
37	A proteome-wide perspective on peroxisome targeting signal 1(PTS1)-Pex5p affinities. <i>Journal of the American Chemical Society</i> , <b>2010</b> , 132, 3973-9	16.4	37
36	Structure and function of the sterol carrier protein-2 N-terminal presequence. <i>Biochemistry</i> , <b>2008</b> , 47, 5915-34	3.2	37
35	Probing the DNA-binding affinity and specificity of designed zinc finger proteins. <i>Biophysical Journal</i> , <b>2010</b> , 98, 852-60	2.9	30
34	A Perspective on Implementing a Quantitative Systems Pharmacology Platform for Drug Discovery and the Advancement of Personalized Medicine. <i>Journal of Biomolecular Screening</i> , <b>2016</b> , 21, 521-34		29
33	A proposed model for the PEX5-peroxisomal targeting signal-1 recognition complex. <i>Proteins: Structure, Function and Bioinformatics</i> , <b>2000</b> , 38, 241-6	4.2	29
32	Expanding the DNA-recognition repertoire for zinc finger proteins beyond 20 amino acids. <i>Journal of the American Chemical Society</i> , <b>2003</b> , 125, 4960-1	16.4	28
31	Kinetics of metal binding by a zinc finger peptide. <i>Inorganica Chimica Acta</i> , <b>2000</b> , 297, 217-219	2.7	26
30	PEX5 binds the PTS1 independently of Hsp70 and the peroxin PEX12. <i>Journal of Biological Chemistry</i> , <b>2003</b> , 278, 7897-901	5.4	25
29	NMR studies of a cobalt-substituted zinc finger peptide. <i>Journal of the American Chemical Society</i> , <b>1993</b> , 115, 2577-2580	16.4	25
28	Entropy-enthalpy compensation in ionic interactions probed in a zinc finger peptide. <i>Biochemistry</i> , <b>2004</b> , 43, 10600-4	3.2	23

27	Kinetics and thermodynamics of copper(II) binding to apoazurin. <i>Journal of the American Chemical Society</i> , <b>2003</b> , 125, 6866-7	16.4	23
26	Toward ligand identification within a CCHHC zinc-binding domain from the NZF/MyT1 family. <i>Inorganic Chemistry</i> , <b>2000</b> , 39, 348-51	5.1	21
25	Selectivity of Methylation of Metal-Bound Cysteines and Its Consequences. <i>Journal of the American Chemical Society</i> , <b>1998</b> , 120, 13083-13087	16.4	20
24	Metal-Binding Domains in Nucleic Acid-Binding and Gene-Regulatory Proteins. <i>Progress in Inorganic Chemistry</i> , 143-185		20
23	Solution structure of a CCHHC domain of neural zinc finger factor-1 and its implications for DNA binding. <i>Biochemistry</i> , <b>2004</b> , 43, 898-903	3.2	19
22	Independence of metal binding between tandem Cys2His2 zinc finger domains. <i>Protein Science</i> , <b>1993</b> , 2, 1313-9	6.3	19
21	Secondary interactions involving zinc-bound ligands: roles in structural stabilization and macromolecular interactions. <i>Journal of Inorganic Biochemistry</i> , <b>2012</b> , 111, 146-9	4.2	15
20	Cancer Yield and Patterns of Follow-up for BI-RADS Category 3 after Screening Mammography Recall in the National Mammography Database. <i>Radiology</i> , <b>2020</b> , 296, 32-41	20.5	14
19	Serine at position 2 in the DNA recognition helix of a Cys2-His2 zinc finger peptide is not, in general, responsible for base recognition. <i>Journal of Molecular Biology</i> , <b>1995</b> , 252, 1-5	6.5	14
18	Quantitative analysis of peroxisomal targeting signal type-1 binding to wild-type and pathogenic mutants of Pex5p supports an affinity threshold for peroxisomal protein targeting. <i>Journal of Molecular Biology</i> , <b>2007</b> , 368, 1259-66	6.5	13
17	The crystal and molecular structures of dioxo Mo(VI) complexes of tripodal, tetradentate N,S-donor ligands. <i>Inorganica Chimica Acta</i> , <b>1984</b> , 90, 25-33	2.7	11
16	Research in academic medical centers: two threats to sustainable support. <i>Science Translational Medicine</i> , <b>2015</b> , 7, 289fs22	17.5	10
15	[36] Centrosymmetric crystals of biomolecules: The racemate method. <i>Methods in Enzymology</i> , <b>1997</b> , 276, 619-627	1.7	10
14	Metalloprotein design. <i>Current Opinion in Structural Biology</i> , <b>1993</b> , 3, 585-588	8.1	10
13	Homodimerization and heterodimerization of minimal zinc(II)-binding-domain peptides of T-cell proteins CD4, CD8alpha, and Lck. <i>Journal of the American Chemical Society</i> , <b>2009</b> , 131, 11492-7	16.4	9
12	Building a metal binding domain, one half at a time. <i>Chemistry and Biology</i> , <b>2002</b> , 9, 667-8		7
11	Site selection in tandem arrays of metal-binding domains. <i>Inorganic Chemistry</i> , <b>2004</b> , 43, 7897-901	5.1	6
10	Racemic macromolecules for use in X-ray crystallography. <i>Current Opinion in Biotechnology</i> , <b>1994</b> , 5, 343-51.4	5.4	6

9	Metal requirements for nucleic acid binding proteins. <i>Methods in Enzymology</i> , <b>1991</b> , 208, 46-54	1.7	5
8	Design of single-stranded nucleic acid binding peptides based on nucleocapsid CCHC-box zinc-binding domains. <i>Journal of the American Chemical Society</i> , <b>2010</b> , 132, 9638-43	16.4	4
7	Cancer Yield Exceeds 2% for BI-RADS 3 Probably Benign Findings in Women Older Than 60 Years in the National Mammography Database. <i>Radiology</i> , <b>2021</b> , 299, 550-558	20.5	4
6	Scientific approaches to science policy. <i>Molecular Biology of the Cell</i> , <b>2013</b> , 24, 3273-4	3.5	2
5	Searching for Metal-Binding Domains. <i>ACS Symposium Series</i> , <b>1989</b> , 90-96	0.4	1
4	Opportunities for chemical biologists: a view from the National Institutes of Health. <i>ACS Chemical Biology</i> , <b>2006</b> , 1, 547-8	4.9	
3	Chemical Biology and the NIH. <i>ACS Chemical Biology</i> , <b>2006</b> , 1, 9-9	4.9	
2	Misleading portrayal of children's asthma study. <i>Science</i> , <b>2021</b> , 374, 414	33.3	
1	Structural Chemistry of Molybdenum in Metalloenzymes as Elucidated by EXAFS <b>1980</b> , 139-155		