Jeremy M Berg

List of Publications by Year in Descending Order

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	Misleading portrayal of children's asthma study. *Science*, **2021**, 374, 414	33.3	
79	Cancer Yield Exceeds 2% for BI-RADS 3 Probably Benign Findings in Women Older Than 60 Years in the National Mammography Database. *Radiology*, **2021**, 299, 550-558	20.5	4
78	Cancer Yield and Patterns of Follow-up for BI-RADS Category 3 after Screening Mammography Recall in the National Mammography Database. *Radiology*, **2020**, 296, 32-41	20.5	14
77	A Perspective on Implementing a Quantitative Systems Pharmacology Platform for Drug Discovery and the Advancement of Personalized Medicine. *Journal of Biomolecular Screening*, **2016**, 21, 521-34		29
76	TCGA Expedition: A Data Acquisition and Management System for TCGA Data. *PLoS ONE*, **2016**, 11, e0165395	3.7	38
75	SCIENTIFIC COMMUNITY. Preprints for the life sciences. *Science*, **2016**, 352, 899-901	33.3	68
74	Toward a sustainable biomedical research enterprise: Finding consensus and implementing recommendations. *Proceedings of the National Academy of Sciences of the United States of America*, **2015**, 112, 10832-6	11.5	37
73	Research in academic medical centers: two threats to sustainable support. *Science Translational Medicine*, **2015**, 7, 289fs22	17.5	10
72	Scientific approaches to science policy. *Molecular Biology of the Cell*, **2013**, 24, 3273-4	3.5	2
71	Secondary interactions involving zinc-bound ligands: roles in structural stabilization and macromolecular interactions. *Journal of Inorganic Biochemistry*, **2012**, 111, 146-9	4.2	15
70	Probing the DNA-binding affinity and specificity of designed zinc finger proteins. *Biophysical Journal*, **2010**, 98, 852-60	2.9	30
69	Design of single-stranded nucleic acid binding peptides based on nucleocapsid CCHC-box zinc-binding domains. *Journal of the American Chemical Society*, **2010**, 132, 9638-43	16.4	4
68	A proteome-wide perspective on peroxisome targeting signal 1(PTS1)-Pex5p affinities. *Journal of the American Chemical Society*, **2010**, 132, 3973-9	16.4	37
67	Homodimerization and heterodimerization of minimal zinc(II)-binding-domain peptides of T-cell proteins CD4, CD8alpha, and Lck. *Journal of the American Chemical Society*, **2009**, 131, 11492-7	16.4	9
66	Structure and function of the sterol carrier protein-2 N-terminal presequence. *Biochemistry*, **2008**, 47, 5915-34	3.2	37
65	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. *Journal of Molecular Biology*, **2007**, 368, 1259-66	6.5	13
64	Opportunities for chemical biologists: a view from the National Institutes of Health. *ACS Chemical Biology*, **2006**, 1, 547-8	4.9	

63	Chemical Biology and the NIH. *ACS Chemical Biology*, **2006**, 1, 9-9	4.9	
62	Binding of two zinc finger nuclease monomers to two specific sites is required for effective double-strand DNA cleavage. *Biochemical and Biophysical Research Communications*, **2005**, 334, 1191-1197	3.4	77
61	Reduction in DNA-binding affinity of Cys2His2 zinc finger proteins by linker phosphorylation. *Proceedings of the National Academy of Sciences of the United States of America*, **2004**, 101, 7589-93	11.5	48
60	Pex5p binding affinities for canonical and noncanonical PTS1 peptides. *Proteins: Structure, Function and Bioinformatics*, **2004**, 55, 856-61	4.2	42
59	Solution structure of a CCHHC domain of neural zinc finger factor-1 and its implications for DNA binding. *Biochemistry*, **2004**, 43, 898-903	3.2	19
58	Site selection in tandem arrays of metal-binding domains. *Inorganic Chemistry*, **2004**, 43, 7897-901	5.1	6
57	The design of functional DNA-binding proteins based on zinc finger domains. *Chemical Reviews*, **2004**, 104, 789-99	68.1	108
56	Entropy-enthalpy compensation in ionic interactions probed in a zinc finger peptide. *Biochemistry*, **2004**, 43, 10600-4	3.2	23
55	Metal ion affinities of the zinc finger domains of the metal responsive element-binding transcription factor-1 (MTF1). *Biochemistry*, **2004**, 43, 5437-44	3.2	55
54	PEX5 binds the PTS1 independently of Hsp70 and the peroxin PEX12. *Journal of Biological Chemistry*, **2003**, 278, 7897-901	5.4	25
53	A Cys3His zinc-binding domain from Nup475/tristetraprolin: a novel fold with a disklike structure. *Biochemistry*, **2003**, 42, 217-21	3.2	40
52	Kinetics and thermodynamics of copper(II) binding to apoazurin. *Journal of the American Chemical Society*, **2003**, 125, 6866-7	16.4	23
51	Correlating structure and affinity for PEX5:PTS1 complexes. *Biochemistry*, **2003**, 42, 1660-6	3.2	40
50	Selective RNA binding by a single CCCH zinc-binding domain from Nup475 (Tristetraprolin). *Biochemistry*, **2003**, 42, 4626-30	3.2	48
49	Expanding the DNA-recognition repertoire for zinc finger proteins beyond 20 amino acids. *Journal of the American Chemical Society*, **2003**, 125, 4960-1	16.4	28
48	Building a metal binding domain, one half at a time. *Chemistry and Biology*, **2002**, 9, 667-8		7
47	Structure-based thermodynamic analysis of a coupled metal binding-protein folding reaction involving a zinc finger peptide. *Biochemistry*, **2002**, 41, 15068-73	3.2	61
46	A proposed model for the PEX5-peroxisomal targeting signal-1 recognition complex. *Proteins: Structure, Function and Bioinformatics*, **2000**, 38, 241-6	4.2	29

45	Kinetics of metal binding by a zinc finger peptide. *Inorganica Chimica Acta*, **2000**, 297, 217-219	2.7	26
44	Peroxisomal targeting signal-1 recognition by the TPR domains of human PEX5. *Nature Structural Biology*, **2000**, 7, 1091-5		286
43	Toward ligand identification within a CCHHC zinc-binding domain from the NZF/MyT1 family. *Inorganic Chemistry*, **2000**, 39, 348-51	5.1	21
42	Metal and DNA binding properties of a two-domain fragment of neural zinc finger factor 1, a CCHC-type zinc binding protein. *Biochemistry*, **1999**, 38, 16826-30	3.2	43
41	Selectivity of Methylation of Metal-Bound Cysteinates and Its Consequences. *Journal of the American Chemical Society*, **1998**, 120, 13083-13087	16.4	20
40	Zinc fingers in Caenorhabditis elegans: finding families and probing pathways. *Science*, **1998**, 282, 2018-22	33.3	161
39	[36] Centrosymmetric crystals of biomolecules: The racemate method. *Methods in Enzymology*, **1997**, 276, 619-627	1.7	10
38	NMR Study of Rapidly Exchanging Backbone Amide Protons in Staphylococcal Nuclease and the Correlation with Structural and Dynamic Properties. *Journal of the American Chemical Society*, **1997**, 119, 6844-6852	16.4	47
37	Sequential metal binding by the RING finger domain of BRCA1. *Biochemistry*, **1997**, 36, 10240-5	3.2	54
36	Electrostatic interactions across a beta-sheet. *Biochemistry*, **1997**, 36, 6218-22	3.2	57
35	Lessons from zinc-binding peptides. *Annual Review of Biophysics and Biomolecular Structure*, **1997**, 26, 357-71		211
34	Site-specific cleavage of DNA-RNA hybrids by zinc finger/FokI cleavage domain fusions. *Gene*, **1997**, 203, 43-9	3.8	56
33	A Fluorescent Zinc Probe Based on Metal-Induced Peptide Folding. *Journal of the American Chemical Society*, **1996**, 118, 6514-6515	16.4	145
32	DNA unwinding induced by zinc finger protein binding. *Biochemistry*, **1996**, 35, 3845-8	3.2	43
31	Water exchange filter with improved sensitivity (WEX II) to study solvent-exchangeable protons. Application to the consensus zinc finger peptide CP-1. *Journal of Magnetic Resonance Series B*, **1996**, 110, 96-101		84
30	Separation of intramolecular NOE and exchange peaks in water exchange spectroscopy using spin-echo filters. *Journal of Biomolecular NMR*, **1996**, 7, 77-82	3	70
29	A 2.2 A resolution crystal structure of a designed zinc finger protein bound to DNA. *Nature Structural Biology*, **1996**, 3, 940-5		148
28	A direct comparison of the properties of natural and designed zinc-finger proteins. *Chemistry and Biology*, **1995**, 2, 83-9		50

27	Zinc Finger Domains: From Predictions to Design. *Accounts of Chemical Research*, **1995**, 28, 14-19	24.3	99
26	Serine at position 2 in the DNA recognition helix of a Cys2-His2 zinc finger peptide is not, in general, responsible for base recognition. *Journal of Molecular Biology*, **1995**, 252, 1-5	6.5	14
25	Racemic macromolecules for use in X-ray crystallography. *Current Opinion in Biotechnology*, **1994**, 5, 343-5	11.4	6
24	Water Exchange Filter (WEX Filter) for Nuclear Magnetic Resonance Studies of Macromolecules. *Journal of the American Chemical Society*, **1994**, 116, 11982-11984	16.4	51
23	NMR studies of a cobalt-substituted zinc finger peptide. *Journal of the American Chemical Society*, **1993**, 115, 2577-2580	16.4	25
22	Metalloprotein design. *Current Opinion in Structural Biology*, **1993**, 3, 585-588	8.1	10
21	Zinc-finger proteins. *Current Opinion in Structural Biology*, **1993**, 3, 11-16	8.1	44
20	Ligand variation and metal ion binding specificity in zinc finger peptides. *Inorganic Chemistry*, **1993**, 32, 937-940	5.1	203
19	The structure of a centrosymmetric protein crystal. *Proteins: Structure, Function and Bioinformatics*, **1993**, 16, 301-5	4.2	87
18	A comparison of the immunogenicity of a pair of enantiomeric proteins. *Proteins: Structure, Function and Bioinformatics*, **1993**, 16, 306-8	4.2	77
17	Independence of metal binding between tandem Cys2His2 zinc finger domains. *Protein Science*, **1993**, 2, 1313-9	6.3	19
16	Thermodynamic beta-sheet propensities measured using a zinc-finger host peptide. *Nature*, **1993**, 362, 267-70	50.4	343
15	Complexes of zinc finger peptides with nickel(2+) and iron(2+). *Inorganic Chemistry*, **1992**, 31, 2984-2986	5.1	48
14	A racemic protein. *Journal of the American Chemical Society*, **1992**, 114, 4002-4003	16.4	86
13	Redesigning the DNA-binding specificity of a zinc finger protein: a data base-guided approach. *Proteins: Structure, Function and Bioinformatics*, **1992**, 12, 101-4	4.2	95
12	Metal requirements for nucleic acid binding proteins. *Methods in Enzymology*, **1991**, 208, 46-54	1.7	5
11	A consensus zinc finger peptide: design, high-affinity metal binding, a pH-dependent structure, and a His to Cys sequence variant. *Journal of the American Chemical Society*, **1991**, 113, 4518-4523	16.4	215
10	Design and characterization of a ligand-binding metallopeptide. *Journal of the American Chemical Society*, **1991**, 113, 5450-5451	16.4	51

9	Searching for Metal-Binding Domains. *ACS Symposium Series*, **1989**, 90-96	0.4	1
8	On the metal ion specificity of zinc finger proteins. *Journal of the American Chemical Society*, **1989**, 111, 3759-3761	16.4	119
7	The crystal and molecular structures of dioxo mo(VI) complexes of tripodal, tetradentate N,S-donor ligands. *Inorganica Chimica Acta*, **1984**, 90, 25-33	2.7	11
6	A nonoctahedral dioxo molybdenum complex with a coordinated partial disulfide bond. *Journal of the American Chemical Society*, **1980**, 102, 3624-3626	16.4	49
5	Structural Chemistry of Molybdenum in Metalloenzymes as Elucidated by EXAFS **1980**, 139-155		
4	Gramicidin A crystals contain two cation binding sites per channel. *Nature*, **1979**, 279, 723-5	50.4	118
3	Synthetic approaches to the molybdenum site in nitrogenase. Preparation and structural properties of the molybdenum-iron-sulfur "double-cubane" cluster complexes [Mo2Fe6S8(SC2H5)9]3- and [Mo2Fe6S9(SC2H5)8]3-. *Journal of the American Chemical Society*, **1979**, 101, 4140-4150	16.4	117
2	Structural results relevant to the molybdenum sites in xanthine oxidase and sulfite oxidase. Crystal structures of MoO2L, L = (SCH2CH2)2NCH2CH2X with X = SCH3, N(CH3)2. *Journal of the American Chemical Society*, **1979**, 101, 2774-2776	16.4	56
1	Metal-Binding Domains in Nucleic Acid-Binding and Gene-Regulatory Proteins. *Progress in Inorganic Chemistry*,143-185		20