Jeremy Berg

List of Publications by Year in Descending Order

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98 papers	5,873 citations	43 h-index	74 g-index
144 ext. papers	6,278 ext. citations	20.5 avg, IF	5.97 L-index

#	Paper	IF	Citations
98	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
97	Editor's note. *Science*, **2019**, 366, 432	33.3	2
96	Editorial expression of concern. *Science*, **2019**, 365, 991	33.3	6
95	Editorial Expression of Concern. *Science*, **2019**, 363, 1406	33.3	0
94	Donald A. B. Lindberg (1933-2019). *Science*, **2019**, 366, 37	33.3	1
93	Editor's note. *Science*, **2019**, 363, 355	33.3	
92	Joint statement on EPA proposed rule and public availability of data. *Science*, **2018**, 360,	33.3	8
91	Editorial expression of concern. *Science*, **2018**, 361, 1322	33.3	5
90	Editor's note: Harassment policy. *Science*, **2018**, 362, 165	33.3	12
89	Editorial retraction. *Science*, **2017**, 356, 812	33.3	3
88	Editorial retraction. *Science*, **2017**, 358, 458	33.3	7
87	Editorial expression of concern. *Science*, **2017**, 357, 1248	33.3	1
86	Training the Workforce for 21st-Century Science. *JAMA - Journal of the American Medical Association*, **2016**, 316, 1675-1676	27.4	2
85	TCGA Expedition: A Data Acquisition and Management System for TCGA Data. *PLoS ONE*, **2016**, 11, e0165395	3.7	38
84	Editorial expression of concern. *Science*, **2016**, 354, 1242	33.3	6
83	SCIENTIFIC COMMUNITY. Preprints for the life sciences. *Science*, **2016**, 352, 899-901	33.3	68
82	The center for causal discovery of biomedical knowledge from big data. *Journal of the American Medical Informatics Association: JAMIA*, **2015**, 22, 1132-6	8.6	21

81	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
80	Research in academic medical centers: two threats to sustainable support. *Science Translational Medicine*, **2015**, 7, 289fs22	17.5	10
79	Needs Assessment for Research Use of High-Throughput Sequencing at a Large Academic Medical Center. *PLoS ONE*, **2015**, 10, e0131166	3.7	9
78	Secondary interactions involving zinc-bound ligands: roles in structural stabilization and macromolecular interactions. *Journal of Inorganic Biochemistry*, **2012**, 111, 146-9	4.2	15
77	Science policy: Well-funded investigators should receive extra scrutiny. *Nature*, **2012**, 489, 203	50.4	19
76	What to expect from the Pharmacogenomics Research Network. *Clinical Pharmacology and Therapeutics*, **2011**, 89, 339-41	6.1	9
75	Systems biology and pharmacology. *Clinical Pharmacology and Therapeutics*, **2010**, 88, 17-9	6.1	22
74	Probing the DNA-binding affinity and specificity of designed zinc finger proteins. *Biophysical Journal*, **2010**, 98, 852-60	2.9	30
73	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
72	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
71	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
70	Update on the protein structure initiative. *Structure*, **2007**, 15, 1519-22	5.2	29
69	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
68	Opportunities for chemical biologists: a view from the National Institutes of Health. *ACS Chemical Biology*, **2006**, 1, 547-8	4.9	
67	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
66	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
65	Pex5p binding affinities for canonical and noncanonical PTS1 peptides. *Proteins: Structure, Function and Bioinformatics*, **2004**, 55, 856-61	4.2	42
64	Site selection in tandem arrays of metal-binding domains. *Inorganic Chemistry*, **2004**, 43, 7897-901	5.1	6

63	The design of functional DNA-binding proteins based on zinc finger domains. *Chemical Reviews*, **2004**, 104, 789-99	68.1	108
62	PEX5 binds the PTS1 independently of Hsp70 and the peroxin PEX12. *Journal of Biological Chemistry*, **2003**, 278, 7897-901	5.4	25
61	Kinetics and thermodynamics of copper(II) binding to apoazurin. *Journal of the American Chemical Society*, **2003**, 125, 6866-7	16.4	23
60	Nonrandom tripeptide sequence distributions at protein carboxyl termini. *Genome Research*, **2003**, 13, 617-23	9.7	10
59	Building a metal binding domain, one half at a time. *Chemistry and Biology*, **2002**, 9, 667-8		7
58	Kinetics of metal binding by a zinc finger peptide. *Inorganica Chimica Acta*, **2000**, 297, 217-219	2.7	26
57	Bio-inorganic chemistry: Newly charted waters Editorial overview. *Current Opinion in Chemical Biology*, **2000**, 4, 137-139	9.7	9
56	Peroxisomal targeting signal-1 recognition by the TPR domains of human PEX5. *Nature Structural Biology*, **2000**, 7, 1091-5		286
55	Toward ligand identification within a CCHHC zinc-binding domain from the NZF/MyT1 family. *Inorganic Chemistry*, **2000**, 39, 348-51	5.1	21
54	A detailed study of the substrate specificity of a chimeric restriction enzyme. *Nucleic Acids Research* , **1999**, 27, 674-81	20.1	102
53	The Limitations of X-ray Absorption Spectroscopy for Determining the Structure of Zinc Sites in Proteins. When Is a Tetrathiolate Not a Tetrathiolate?. *Journal of the American Chemical Society*, **1998**, 120, 8401-8409	16.4	122
52	Selectivity of Methylation of Metal-Bound Cysteinates and Its Consequences. *Journal of the American Chemical Society*, **1998**, 120, 13083-13087	16.4	20
51	Zinc fingers in Caenorhabditis elegans: finding families and probing pathways. *Science*, **1998**, 282, 2018-22	33.3	161
50	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
49	Lessons from zinc-binding peptides. *Annual Review of Biophysics and Biomolecular Structure*, **1997**, 26, 357-71		211
48	Site-specific cleavage of DNA-RNA hybrids by zinc finger/FokI cleavage domain fusions. *Gene*, **1997**, 203, 43-9	3.8	56
47	A Fluorescent Zinc Probe Based on Metal-Induced Peptide Folding. *Journal of the American Chemical Society*, **1996**, 118, 6514-6515	16.4	145
46	Metal binding properties and secondary structure of the zinc-binding domain of Nup475. *Proceedings of the National Academy of Sciences of the United States of America*, **1996**, 93, 13754-9	11.5	98

45	A 2.2 A resolution crystal structure of a designed zinc finger protein bound to DNA. *Nature Structural Biology*, **1996**, 3, 940-5		148
44	A direct comparison of the properties of natural and designed zinc-finger proteins. *Chemistry and Biology*, **1995**, 2, 83-9		50
43	Fibrillin domain folding and calcium binding: significance to Marfan syndrome. *Chemistry and Biology*, **1995**, 2, 91-7		28
42	Zinc Finger Domains: From Predictions to Design. *Accounts of Chemical Research*, **1995**, 28, 14-19	24.3	99
41	Matrix-Assisted Laser Desorption/Ionization of Noncovalently Bound Compounds. *Analytical Chemistry*, **1995**, 67, 4462-4465	7.8	88
40	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
39	Racemic macromolecules for use in X-ray crystallography. *Current Opinion in Biotechnology*, **1994**, 5, 343-5	11.4	6
38	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
37	Length-encoded multiplex binding site determination: application to zinc finger proteins. *Proceedings of the National Academy of Sciences of the United States of America*, **1994**, 91, 11099-103	11.5	73
36	NMR studies of a cobalt-substituted zinc finger peptide. *Journal of the American Chemical Society*, **1993**, 115, 2577-2580	16.4	25
35	Metal binding properties of single amino acid deletion mutants of zinc finger peptides: studies using cobalt(II) as a spectroscopic probe. *Biophysical Journal*, **1993**, 64, 749-53	2.9	51
34	Ligand variation and metal ion binding specificity in zinc finger peptides. *Inorganic Chemistry*, **1993**, 32, 937-940	5.1	203
33	Thermodynamic beta-sheet propensities measured using a zinc-finger host peptide. *Nature*, **1993**, 362, 267-70	50.4	343
32	Metal binding and folding properties of a minimalist Cys2His2 zinc finger peptide. *Proceedings of the National Academy of Sciences of the United States of America*, **1992**, 89, 4796-800	11.5	141
31	Sp1 and the subfamily of zinc finger proteins with guanine-rich binding sites. *Proceedings of the National Academy of Sciences of the United States of America*, **1992**, 89, 11109-10	11.5	167
30	Complexes of zinc finger peptides with nickel(2+) and iron(2+). *Inorganic Chemistry*, **1992**, 31, 2984-2986	5.1	48
29	A racemic protein. *Journal of the American Chemical Society*, **1992**, 114, 4002-4003	16.4	86
28	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

27	Identification and characterization of "zinc-finger" domains by the polymerase chain reaction. *Proceedings of the National Academy of Sciences of the United States of America*, **1991**, 88, 671-5	11.5	39
26	Metal requirements for nucleic acid binding proteins. *Methods in Enzymology*, **1991**, 208, 46-54	1.7	5
25	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
24	Design and characterization of a ligand-binding metallopeptide. *Journal of the American Chemical Society*, **1991**, 113, 5450-5451	16.4	51
23	On the metal ion specificity of zinc finger proteins. *Journal of the American Chemical Society*, **1989**, 111, 3759-3761	16.4	119
22	DNA binding specificity of steroid receptors. *Cell*, **1989**, 57, 1065-8	56.2	187
21	A retroviral Cys-Xaa2-Cys-Xaa4-His-Xaa4-Cys peptide binds metal ions: spectroscopic studies and a proposed three-dimensional structure. *Proceedings of the National Academy of Sciences of the United States of America*, **1989**, 86, 4047-51	11.5	162
20	Metal ions in proteins: structural and functional roles. *Cold Spring Harbor Symposia on Quantitative Biology*, **1987**, 52, 579-85	3.9	19
19	Toward functional models of metalloenzyme active sites: analog reaction systems of the molybdenum oxo transferases. *Accounts of Chemical Research*, **1986**, 19, 363-370	24.3	95
18	Thermodynamic fitness of molybdenum(IV,VI) complexes for oxygen-atom transfer reactions, including those with enzymic substrates. *Journal of the American Chemical Society*, **1986**, 108, 6992-7000	16.4	87
17	A binuclear copper(II) complex with a bridging thioether ligand. Crystal and molecular structure of dicopper (thiobis(ethylenenitrilo)tetraacetate) pentahydrate. *Inorganic Chemistry*, **1986**, 25, 1800-1803	5.1	5
16	Model for the active sites of oxo-transfer molybdoenzymes: reactivity, kinetics, and catalysis. *Journal of the American Chemical Society*, **1985**, 107, 925-932	16.4	115
15	Soluble sulfides of niobium(V) and tantalum(V): synthesis, structures, and properties of the fivefold symmetric cages [M6S17]4-. *Inorganic Chemistry*, **1985**, 24, 1706-1713	5.1	35
14	Mononuclear active sites of molybdoenzymes: chemical approaches to structure and reactivity. *Pure and Applied Chemistry*, **1984**, 56, 1645-1657	2.1	42
13	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
12	Structural comparison of octahedral MoO22+ complexes of bidentate and linear tetradentate N,S-donor ligands. *Inorganica Chimica Acta*, **1984**, 90, 35-39	2.7	7
11	The stereochemistry and biosynthesis of hybridalactone, an eicosanoid from. *Tetrahedron Letters*, **1984**, 25, 1015-1018	2	35
10	Stereochemistry of the Conant-Swan fragmentation: the absence of a phenonium ion intermediate. *Journal of the American Chemical Society*, **1984**, 106, 4202-4204	16.4	5

9	Kinetics of oxygen atom transfer reactions involving oxomolybdenum complexes. General treatment for reactions with intermediate oxo-bridged molybdenum(V) dimer formation. *Inorganic Chemistry*, **1984**, 23, 3057-3062	5.1	64
8	Synthetic approach to the mononuclear active sites of molybdoenzymes: catalytic oxygen atom transfer reactions by oxomolybdenum(IV,VI) complexes with saturation kinetics and without molybdenum(V) dimer formation. *Journal of the American Chemical Society*, **1984**, 106, 3035-3036	16.4	71
7	Synthesis, structure, and magnetism of a new type of .pi.-molecular complex containing binuclear copper(II) complexes and benzene: bis[2,2-dimethyl-7-(phenylimino)-3,5,7-octanetrionato]dicopper(II)-benzene and bis[2,2-dimethyl-7-[(4-nitrophenyl)imino]-3,5,7-octanetrionato]dicopper(II)-bis(benzene). *Inorganic Chemistry*, **1983**, 22, 1667-1671	5.1	12
6	Soluble metal sulfides. Synthesis and structures of [M6S17]4- (M = niobium or tantalum): icosahedral-fragment cages containing four types of coordinated sulfide. *Journal of the American Chemical Society*, **1983**, 105, 7784-7786	16.4	21
5	Structure proofs of ligated and polymeric dioxomolybdenum(VI)-tridentate complexes: MoO2(C5H3N-2,6-(CH2S)2)(C4H8SO) and [MoO2(C5H3N-2,6-(CH2O)2)]n. *Inorganic Chemistry*, **1983**, 22, 1768-1771	5.1	67
4	Single-crystal polarized x-ray absorption spectroscopy. Observation and theory for thiomolybdate(2-). *Journal of the American Chemical Society*, **1981**, 103, 6083-6088	16.4	75
3	Synthesis, structure, and properties of the cluster complex [MoFe4S4(SC2H5)3(C6H4O2)3]3-, containing a single cubane-type molybdenum-iron-sulfur (MoFe3S4) core. *Inorganic Chemistry*, **1981** , 20, 174-180	5.1	45
2	Structural characterization of the iron-bridged "double-cubane" cluster complexes [Mo2Fe7S8(SC2H5)12]3- and [M2Fe7S8(SCH2C6H5)12]4- (M = molybdenum, tungsten) containing MFe3S4 cores. *Inorganic Chemistry*, **1980**, 19, 430-437	5.1	48
1	Gramicidin A crystals contain two cation binding sites per channel. *Nature*, **1979**, 279, 723-5	50.4	118