

# Jeremy Berg

## List of Publications by Citations

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98  
papers

5,873  
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43  
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g-index

144  
ext. papers

6,278  
ext. citations

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L-index

#	Paper	IF	Citations
98	Thermodynamic beta-sheet propensities measured using a zinc-finger host peptide. <i>Nature</i> , <b>1993</b> , 362, 267-70	50.4	343
97	Peroxisomal targeting signal-1 recognition by the TPR domains of human PEX5. <i>Nature Structural Biology</i> , <b>2000</b> , 7, 1091-5		286
96	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
95	Lessons from zinc-binding peptides. <i>Annual Review of Biophysics and Biomolecular Structure</i> , <b>1997</b> , 26, 357-71		211
94	Ligand variation and metal ion binding specificity in zinc finger peptides. <i>Inorganic Chemistry</i> , <b>1993</b> , 32, 937-940	5.1	203
93	DNA binding specificity of steroid receptors. <i>Cell</i> , <b>1989</b> , 57, 1065-8	56.2	187
92	Sp1 and the subfamily of zinc finger proteins with guanine-rich binding sites. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , <b>1992</b> , 89, 11109-10	11.5	167
91	A retroviral Cys-Xaa2-Cys-Xaa4-His-Xaa4-Cys peptide binds metal ions: spectroscopic studies and a proposed three-dimensional structure. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , <b>1989</b> , 86, 4047-51	11.5	162
90	Zinc fingers in <i>Caenorhabditis elegans</i> : finding families and probing pathways. <i>Science</i> , <b>1998</b> , 282, 2018-23.3	23.3	161
89	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
88	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
87	Metal binding and folding properties of a minimalist Cys2His2 zinc finger peptide. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , <b>1992</b> , 89, 4796-800	11.5	141
86	The Limitations of X-ray Absorption Spectroscopy for Determining the Structure of Zinc Sites in Proteins. When Is a Tetrathiolate Not a Tetrathiolate?. <i>Journal of the American Chemical Society</i> , <b>1998</b> , 120, 8401-8409	16.4	122
85	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
84	Gramicidin A crystals contain two cation binding sites per channel. <i>Nature</i> , <b>1979</b> , 279, 723-5	50.4	118
83	Model for the active sites of oxo-transfer molybdoenzymes: reactivity, kinetics, and catalysis. <i>Journal of the American Chemical Society</i> , <b>1985</b> , 107, 925-932	16.4	115
82	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

81	A detailed study of the substrate specificity of a chimeric restriction enzyme. <i>Nucleic Acids Research</i> , <b>1999</b> , 27, 674-81	20.1	102
80	Zinc Finger Domains: From Predictions to Design. <i>Accounts of Chemical Research</i> , <b>1995</b> , 28, 14-19	24.3	99
79	Metal binding properties and secondary structure of the zinc-binding domain of Nup475. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , <b>1996</b> , 93, 13754-9	11.5	98
78	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
77	Toward functional models of metalloenzyme active sites: analog reaction systems of the molybdenum oxo transferases. <i>Accounts of Chemical Research</i> , <b>1986</b> , 19, 363-370	24.3	95
76	Matrix-Assisted Laser Desorption/Ionization of Noncovalently Bound Compounds. <i>Analytical Chemistry</i> , <b>1995</b> , 67, 4462-4465	7.8	88
75	Thermodynamic fitness of molybdenum(IV,VI) complexes for oxygen-atom transfer reactions, including those with enzymic substrates. <i>Journal of the American Chemical Society</i> , <b>1986</b> , 108, 6992-7000	16.4	87
74	A racemic protein. <i>Journal of the American Chemical Society</i> , <b>1992</b> , 114, 4002-4003	16.4	86
73	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	37.4	77
72	Single-crystal polarized x-ray absorption spectroscopy. Observation and theory for thiomolybdate(2-). <i>Journal of the American Chemical Society</i> , <b>1981</b> , 103, 6083-6088	16.4	75
71	Length-encoded multiplex binding site determination: application to zinc finger proteins. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , <b>1994</b> , 91, 11099-103	11.5	73
70	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. <i>Journal of the American Chemical Society</i> , <b>1984</b> , 106, 3035-3036	16.4	71
69	SCIENTIFIC COMMUNITY. Preprints for the life sciences. <i>Science</i> , <b>2016</b> , 352, 899-901	33.3	68
68	Structure proofs of ligated and polymeric dioxomolybdenum(VI)-tridentate complexes: MoO <sub>2</sub> (C <sub>5</sub> H <sub>3</sub> N-2,6-(CH <sub>2</sub> S) <sub>2</sub> )(C <sub>4</sub> H <sub>8</sub> SO) and [MoO <sub>2</sub> (C <sub>5</sub> H <sub>3</sub> N-2,6-(CH <sub>2</sub> O) <sub>2</sub> )] <sub>n</sub> . <i>Inorganic Chemistry</i> , <b>1983</b> , 22, 1768-1771	5.1	67
67	Kinetics of oxygen atom transfer reactions involving oxomolybdenum complexes. General treatment for reactions with intermediate oxo-bridged molybdenum(V) dimer formation. <i>Inorganic Chemistry</i> , <b>1984</b> , 23, 3057-3062	5.1	64
66	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
65	Metal binding properties of single amino acid deletion mutants of zinc finger peptides: studies using cobalt(II) as a spectroscopic probe. <i>Biophysical Journal</i> , <b>1993</b> , 64, 749-53	2.9	51
64	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

63	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
62	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
61	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
60	Complexes of zinc finger peptides with nickel(2+) and iron(2+). <i>Inorganic Chemistry</i> , <b>1992</b> , 31, 2984-2986	5.1	48
59	Structural characterization of the iron-bridged "double-cubane" cluster complexes [Mo <sub>2</sub> Fe <sub>7</sub> S <sub>8</sub> (SC <sub>2</sub> H <sub>5</sub> ) <sub>12</sub> ] <sup>3-</sup> and [M <sub>2</sub> Fe <sub>7</sub> S <sub>8</sub> (SCH <sub>2</sub> C <sub>6</sub> H <sub>5</sub> ) <sub>12</sub> ] <sup>4-</sup> (M = molybdenum, tungsten) containing MFe <sub>3</sub> S <sub>4</sub> cores. <i>Inorganic Chemistry</i> , <b>1980</b> , 19, 430-437	5.1	48
58	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
57	Synthesis, structure, and properties of the cluster complex [MoFe <sub>4</sub> S <sub>4</sub> (SC <sub>2</sub> H <sub>5</sub> ) <sub>3</sub> (C <sub>6</sub> H <sub>4</sub> O <sub>2</sub> ) <sub>3</sub> ] <sup>3-</sup> , containing a single cubane-type molybdenum-iron-sulfur (MoFe <sub>3</sub> S <sub>4</sub> ) core. <i>Inorganic Chemistry</i> , <b>1981</b> , 20, 174-180	5.1	45
56	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
55	Mononuclear active sites of molybdoenzymes: chemical approaches to structure and reactivity. <i>Pure and Applied Chemistry</i> , <b>1984</b> , 56, 1645-1657	2.1	42
54	Identification and characterization of "zinc-finger" domains by the polymerase chain reaction. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , <b>1991</b> , 88, 671-5	11.5	39
53	TCGA Expedition: A Data Acquisition and Management System for TCGA Data. <i>PLoS ONE</i> , <b>2016</b> , 11, e0165395	3.95	38
52	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
51	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
50	The stereochemistry and biosynthesis of hybridalactone, an eicosanoid from. <i>Tetrahedron Letters</i> , <b>1984</b> , 25, 1015-1018	2	35
49	Soluble sulfides of niobium(V) and tantalum(V): synthesis, structures, and properties of the fivefold symmetric cages [M <sub>6</sub> S <sub>17</sub> ] <sup>4-</sup> . <i>Inorganic Chemistry</i> , <b>1985</b> , 24, 1706-1713	5.1	35
48	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
47	Update on the protein structure initiative. <i>Structure</i> , <b>2007</b> , 15, 1519-22	5.2	29
46	Fibrillin domain folding and calcium binding: significance to Marfan syndrome. <i>Chemistry and Biology</i> , <b>1995</b> , 2, 91-7		28

45	Kinetics of metal binding by a zinc finger peptide. <i>Inorganica Chimica Acta</i> , <b>2000</b> , 297, 217-219	2.7	26
44	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
43	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
42	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
41	Systems biology and pharmacology. <i>Clinical Pharmacology and Therapeutics</i> , <b>2010</b> , 88, 17-9	6.1	22
40	The center for causal discovery of biomedical knowledge from big data. <i>Journal of the American Medical Informatics Association: JAMIA</i> , <b>2015</b> , 22, 1132-6	8.6	21
39	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
38	Soluble metal sulfides. Synthesis and structures of [M6S17]4- (M = niobium or tantalum): icosahedral-fragment cages containing four types of coordinated sulfide. <i>Journal of the American Chemical Society</i> , <b>1983</b> , 105, 7784-7786	16.4	21
37	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
36	Science policy: Well-funded investigators should receive extra scrutiny. <i>Nature</i> , <b>2012</b> , 489, 203	50.4	19
35	Metal ions in proteins: structural and functional roles. <i>Cold Spring Harbor Symposia on Quantitative Biology</i> , <b>1987</b> , 52, 579-85	3.9	19
34	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
33	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
32	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
31	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
30	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). <i>Inorganic Chemistry</i> , <b>1993</b> , 32, 1667-1671	5.1	12
29	Editor's note: Harassment policy. <i>Science</i> , <b>2018</b> , 362, 165	33.3	12
28	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

27	Research in academic medical centers: two threats to sustainable support. <i>Science Translational Medicine</i> , <b>2015</b> , 7, 289fs22	17.5	10
26	Nonrandom tripeptide sequence distributions at protein carboxyl termini. <i>Genome Research</i> , <b>2003</b> , 13, 617-23	9.7	10
25	What to expect from the Pharmacogenomics Research Network. <i>Clinical Pharmacology and Therapeutics</i> , <b>2011</b> , 89, 339-41	6.1	9
24	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
23	Bio-inorganic chemistry: Newly charted waters Editorial overview. <i>Current Opinion in Chemical Biology</i> , <b>2000</b> , 4, 137-139	9.7	9
22	Needs Assessment for Research Use of High-Throughput Sequencing at a Large Academic Medical Center. <i>PLoS ONE</i> , <b>2015</b> , 10, e0131166	3.7	9
21	Joint statement on EPA proposed rule and public availability of data. <i>Science</i> , <b>2018</b> , 360,	33.3	8
20	Editorial retraction. <i>Science</i> , <b>2017</b> , 358, 458	33.3	7
19	Building a metal binding domain, one half at a time. <i>Chemistry and Biology</i> , <b>2002</b> , 9, 667-8		7
18	Structural comparison of octahedral MoO <sub>2</sub> <sup>2+</sup> complexes of bidentate and linear tetradentate N,S-donor ligands. <i>Inorganica Chimica Acta</i> , <b>1984</b> , 90, 35-39	2.7	7
17	Editorial expression of concern. <i>Science</i> , <b>2019</b> , 365, 991	33.3	6
16	Site selection in tandem arrays of metal-binding domains. <i>Inorganic Chemistry</i> , <b>2004</b> , 43, 7897-901	5.1	6
15	Racemic macromolecules for use in X-ray crystallography. <i>Current Opinion in Biotechnology</i> , <b>1994</b> , 5, 343-51.4	5.1	6
14	Editorial expression of concern. <i>Science</i> , <b>2016</b> , 354, 1242	33.3	6
13	Metal requirements for nucleic acid binding proteins. <i>Methods in Enzymology</i> , <b>1991</b> , 208, 46-54	1.7	5
12	Stereochemistry of the Conant-Swan fragmentation: the absence of a phenonium ion intermediate. <i>Journal of the American Chemical Society</i> , <b>1984</b> , 106, 4202-4204	16.4	5
11	A binuclear copper(II) complex with a bridging thioether ligand. Crystal and molecular structure of dicopper (thiobis(ethylenitrilo)tetraacetate) pentahydrate. <i>Inorganic Chemistry</i> , <b>1986</b> , 25, 1800-1803	5.1	5
10	Editorial expression of concern. <i>Science</i> , <b>2018</b> , 361, 1322	33.3	5

9	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
8	Editorial retraction. <i>Science</i> , <b>2017</b> , 356, 812	33.3	3
7	Editorial note. <i>Science</i> , <b>2019</b> , 366, 432	33.3	2
6	Training the Workforce for 21st-Century Science. <i>JAMA - Journal of the American Medical Association</i> , <b>2016</b> , 316, 1675-1676	27.4	2
5	Donald A. B. Lindberg (1933-2019). <i>Science</i> , <b>2019</b> , 366, 37	33.3	1
4	Editorial expression of concern. <i>Science</i> , <b>2017</b> , 357, 1248	33.3	1
3	Editorial Expression of Concern. <i>Science</i> , <b>2019</b> , 363, 1406	33.3	0
2	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	
1	Editorial note. <i>Science</i> , <b>2019</b> , 363, 355	33.3	