Jeremy M Berg

List of Publications by Year
in descending order

84	5,260	66343 42	88630 70
papers	citations	h-index	g-index

85	85	85	4644
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	Exploring the use of cobalt(II) dipolar shifts in refining the structure of a zinc finger peptide. Journal of Inorganic Biochemistry, 2022, 235, 111912.	3.5	0
2	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.	7.3	11
3	Misleading portrayal of childrenâ€™s asthma study. Science, 2021, 374, 414-414.	12.6	0
4	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.	7.3	38
5	TCGA Expedition: A Data Acquisition and Management System for TCGA Data. PLoS ONE, 2016, 11, e0165395.	2.5	62
6	Preprints for the life sciences. Science, 2016, 352, 899-901.	12.6	119
7	A Perspective on Implementing a Quantitative Systems Pharmacology Platform for Drug Discovery and the Advancement of Personalized Medicine. Journal of Biomolecular Screening, 2016, 21, 521-534.	2.6	46
8	Research in academic medical centers: Two threats to sustainable support. Science Translational Medicine, 2015, 7, 289fs22.	12.4	12
9	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, 10832-10836.	7.1	51
10	Scientific approaches to science policy. Molecular Biology of the Cell, 2013, 24, 3273-3274.	2.1	2
11	Secondary interactions involving zinc-bound ligands: Roles in structural stabilization and macromolecular interactions. Journal of Inorganic Biochemistry, 2012, 111, 146-149.	3.5	19
12	Probing the DNA-Binding Affinity and Specificity of Designed Zinc Finger Proteins. Biophysical Journal, 2010, 98, 852-860.	0.5	34
13	Design of Single-Stranded Nucleic Acid Binding Peptides Based on Nucleocapsid CCHC-Box Zinc-Binding Domains. Journal of the American Chemical Society, 2010, 132, 9638-9643.	13.7	5
14	A Proteome-Wide Perspective on Peroxisome Targeting Signal 1(PTS1)-Pex5p Affinities. Journal of the American Chemical Society, 2010, 132, 3973-3979.	13.7	46
15	Homodimerization and Heterodimerization of Minimal Zinc(II)-Binding-Domain Peptides of T-Cell Proteins CD4, CD8Î±, and Lck. Journal of the American Chemical Society, 2009, 131, 11492-11497.	13.7	13
16	Structure and Function of the Sterol Carrier Protein-2 N-Terminal Presequence. Biochemistry, 2008, 47, 5915-5934.	2.5	38
17	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, 1259-1266.	4.2	15
18	Opportunities for Chemical Biologists: A View from the National Institutes of Health. ACS Chemical Biology, 2006, 1, 547-548.	3.4	0

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19	Chemical Biology and the NIH. ACS Chemical Biology, 2006, 1, 9-9.	3.4	0
20	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.	2.1	89
21	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, 7589-7593.	7.1	54
22	Pex5p binding affinities for canonical and noncanonical PTS1 peptides. Proteins: Structure, Function and Bioinformatics, 2004, 55, 856-861.	2.6	48
23	The Design of Functional DNA-Binding Proteins Based on Zinc Finger Domains. ChemInform, 2004, 35, no.	0.0	0
24	Solution Structure of a CCHHC Domain of Neural Zinc Finger Factor-1 and Its Implications for DNA Binding. Biochemistry, 2004, 43, 898-903.	2.5	20
25	Site Selection in Tandem Arrays of Metal-Binding Domains. Inorganic Chemistry, 2004, 43, 7897-7901.	4.0	6
26	The Design of Functional DNA-Binding Proteins Based on Zinc Finger Domains. Chemical Reviews, 2004, 104, 789-800.	47.7	120
27	Entropyâ˘'Enthalpy Compensation in Ionic Interactions Probed in a Zinc Finger Peptideâ€. Biochemistry, 2004, 43, 10600-10604.	2.5	26
28	Metal Ion Affinities of the Zinc Finger Domains of the Metal Responsive Element-Binding Transcription Factor-1 (MTF1)â€. Biochemistry, 2004, 43, 5437-5444.	2.5	66
29	A Cys3His Zinc-Binding Domain from Nup475/Tristetraprolin:Â A Novel Fold with a Disklike Structureâ€. Biochemistry, 2003, 42, 217-221.	2.5	45
30	Kinetics and Thermodynamics of Copper(II) Binding to Apoazurin. Journal of the American Chemical Society, 2003, 125, 6866-6867.	13.7	25
31	Correlating Structure and Affinity for PEX5:PTS1 Complexesâ€. Biochemistry, 2003, 42, 1660-1666.	2.5	43
32	Selective RNA Binding by a Single CCCH Zinc-Binding Domain from Nup475 (Tristetraprolin)â€. Biochemistry, 2003, 42, 4626-4630.	2.5	53
33	Expanding the DNA-Recognition Repertoire for Zinc Finger Proteins beyond 20 Amino Acids. Journal of the American Chemical Society, 2003, 125, 4960-4961.	13.7	31
34	PEX5 Binds the PTS1 Independently of Hsp70 and the Peroxin PEX12. Journal of Biological Chemistry, 2003, 278, 7897-7901.	3.4	29
35	Structure-Based Thermodynamic Analysis of a Coupled Metal Bindingâ˘'Protein Folding Reaction Involving a Zinc Finger Peptideâ€. Biochemistry, 2002, 41, 15068-15073.	2.5	67
36	Building a Metal Binding Domain, One Half at a Time. Chemistry and Biology, 2002, 9, 667-668.	6.0	9

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37	A proposed model for the PEX5-peroxisomal targeting signal-1 recognition complex. , 2000, 38, 241-246.		33
38	Kinetics of metal binding by a zinc finger peptide. Inorganica Chimica Acta, 2000, 297, 217-219.	2.4	29
39	Peroxisomal targeting signal-1 recognition by the TPR domains of human PEX5. Nature Structural Biology, 2000, 7, 1091-1095.	9.7	329
40	Toward Ligand Identification within a CCHHC Zinc-Binding Domain from the NZF/MyT1 Family. Inorganic Chemistry, 2000, 39, 348-351.	4.0	21
41	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, 16826-16830.	2.5	44
42	Selectivity of Methylation of Metal-Bound Cysteinates and Its Consequences. Journal of the American Chemical Society, 1998, 120, 13083-13087.	13.7	24
43	Zinc Fingers in Caenorhabditis elegans: Finding Families and Probing Pathways. , 1998, 282, 2018-2022.		187
44	[36] Centrosymmetric crystals of biomolecules: The racemate method. Methods in Enzymology, 1997, 276, 619-627.	1.0	13
45	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.	13.7	50
46	Sequential Metal Binding by the RING Finger Domain of BRCA1â€. Biochemistry, 1997, 36, 10240-10245.	2.5	58
47	Electrostatic Interactions across a Î²-Sheetâ€. Biochemistry, 1997, 36, 6218-6222.	2.5	65
48	LESSONS FROM ZINC-BINDING PEPTIDES. Annual Review of Biophysics and Biomolecular Structure, 1997, 26, 357-371.	18.3	227
49	Site-specific cleavage of DNAâ€"RNA hybrids by zinc finger/FokI cleavage domain fusions. Gene, 1997, 203, 43-49.	2.2	65
50	Letting your fingers do the walking. Nature Biotechnology, 1997, 15, 323-323.	17.5	7
51	A Fluorescent Zinc Probe Based on Metal-Induced Peptide Folding. Journal of the American Chemical Society, 1996, 118, 6514-6515.	13.7	162
52	DNA Unwinding Induced by Zinc Finger Protein Binding. Biochemistry, 1996, 35, 3845-3848.	2.5	47
53	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.	1.6	88
54	Separation of intramolecular NOE and exchange peaks in water exchange spectroscopy using spin-echo filters. Journal of Biomolecular NMR, 1996, 7, 77-82.	2.8	73

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55	A 2.2 Ã… resolution crystal structure of a designed zinc finger protein bound to DNA. Nature Structural Biology, 1996, 3, 940-945.	9.7	168
56	A direct comparison of the properties of natural and designed zinc-finger proteins. Chemistry and Biology, 1995, 2, 83-89.	6.0	54
57	Zinc Finger Domains: From Predictions to Design. Accounts of Chemical Research, 1995, 28, 14-19.	15.6	112
58	Serine at Position 2 in the DNA Recognition Helix of a Cys2-His2Zinc Finger Peptide is Not, in General, Responsible for Base Recognition. Journal of Molecular Biology, 1995, 252, 1-5.	4.2	16
59	Racemic macromolecules for use in x-ray crystallography. Current Opinion in Biotechnology, 1994, 5, 343-345.	6.6	7
60	Water Exchange Filter (WEX Filter) for Nuclear Magnetic Resonance Studies of Macromolecules. Journal of the American Chemical Society, 1994, 116, 11982-11984.	13.7	55
61	The structure of a centrosymmetric protein crystal. Proteins: Structure, Function and Bioinformatics, 1993, 16, 301-305.	2.6	102
62	A comparison of the immunogenicity of a pair of enantiomeric proteins. Proteins: Structure, Function and Bioinformatics, 1993, 16, 306-308.	2.6	86
63	Independence of metal binding between tandem Cys₂His₂ zinc finger domains. Protein Science, 1993, 2, 1313-1319.	7.6	22
64	Thermodynamic Î² -sheet propensities measured using a zinc-finger host peptide. Nature, 1993, 362, 267-270.	27.8	365
65	NMR studies of a cobalt-substituted zinc finger peptide. Journal of the American Chemical Society, 1993, 115, 2577-2580.	13.7	28
66	Metalloprotein design. Current Opinion in Structural Biology, 1993, 3, 585-588.	5.7	11
67	Zinc-finger proteins. Current Opinion in Structural Biology, 1993, 3, 11-16.	5.7	57
68	Ligand variation and metal ion binding specificity in zinc finger peptides. Inorganic Chemistry, 1993, 32, 937-940.	4.0	228
69	Complexes of zinc finger peptides with nickel(2+) and iron(2+). Inorganic Chemistry, 1992, 31, 2984-2986.	4.0	53
70	A racemic protein. Journal of the American Chemical Society, 1992, 114, 4002-4003.	13.7	93
71	Redesigning the DNA-binding specificity of a zinc finger protein: A data base-guided approach. Proteins: Structure, Function and Bioinformatics, 1992, 12, 101-104.	2.6	104
72	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.	13.7	238

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73	Design and characterization of a ligand-binding metallopeptide. Journal of the American Chemical Society, 1991, 113, 5450-5451.	13.7	56
74	[4] Metal requirements for nucleic acid binding proteins. Methods in Enzymology, 1991, 208, 46-54.	1.0	5
75	Searching for Metal-Binding Domains. ACS Symposium Series, 1989, , 90-96.	0.5	1
76	On the metal ion specificity of zinc finger proteins. Journal of the American Chemical Society, 1989, 111, 3759-3761.	13.7	133
77	Nucleic acid-binding proteins: More metal-binding fingers. Nature, 1986, 319, 264-265.	27.8	83
78	The crystal and molecular structures of dioxo mo(VI) complexes of tripodal, tetradentate N,S-donor ligands. Inorganica Chimica Acta, 1984, 90, 25-33.	2.4	13
79	A nonoctahedral dioxo molybdenum complex with a coordinated partial disulfide bond. Journal of the American Chemical Society, 1980, 102, 3624-3626.	13.7	56
80	Structural Chemistry of Molybdenum in Metalloenzymes as Elucidated by EXAFS. , 1980, , 139-155.		0
81	Gramicidin A crystals contain two cation binding sites per channel. Nature, 1979, 279, 723-725.	27.8	126
82	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.	13.7	130
83	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.	13.7	67
84	Metal-Binding Domains in Nucleic Acid-Binding and Gene-Regulatory Proteins. Progress in Inorganic Chemistry, 0, , 143-185.	3.0	27