

Jeremy M Berg

List of Publications by Year in descending order

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84
papers

5,260
citations

66343

42
h-index

88630

70
g-index

85
all docs

85
docs citations

85
times ranked

4644
citing authors

#	ARTICLE	IF	CITATIONS
1	Thermodynamic $\hat{\Delta}^2$ -sheet propensities measured using a zinc-finger host peptide. <i>Nature</i> , 1993, 362, 267-270.	27.8	365
2	Peroxisomal targeting signal-1 recognition by the TPR domains of human PEX5. <i>Nature Structural Biology</i> , 2000, 7, 1091-1095.	9.7	329
3	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> , 1991, 113, 4518-4523.	13.7	238
4	Ligand variation and metal ion binding specificity in zinc finger peptides. <i>Inorganic Chemistry</i> , 1993, 32, 937-940.	4.0	228
5	LESSONS FROM ZINC-BINDING PEPTIDES. <i>Annual Review of Biophysics and Biomolecular Structure</i> , 1997, 26, 357-371.	18.3	227
6	Zinc Fingers in <i>Caenorhabditis elegans</i> : Finding Families and Probing Pathways. , 1998, 282, 2018-2022.		187
7	A 2.2 Å... resolution crystal structure of a designed zinc finger protein bound to DNA. <i>Nature Structural Biology</i> , 1996, 3, 940-945.	9.7	168
8	A Fluorescent Zinc Probe Based on Metal-Induced Peptide Folding. <i>Journal of the American Chemical Society</i> , 1996, 118, 6514-6515.	13.7	162
9	On the metal ion specificity of zinc finger proteins. <i>Journal of the American Chemical Society</i> , 1989, 111, 3759-3761.	13.7	133
10	Synthetic approaches to the molybdenum site in nitrogenase. Preparation and structural properties of the molybdenum-iron-sulfur "double-cubane" cluster complexes [Mo ₂ Fe ₆ S ₈ (SC ₂ H ₅) ₉] ³⁻ and [Mo ₂ Fe ₆ S ₉ (SC ₂ H ₅) ₈] ³⁻ . <i>Journal of the American Chemical Society</i> , 1979, 101, 4140-4150.	13.7	130
11	Gramicidin A crystals contain two cation binding sites per channel. <i>Nature</i> , 1979, 279, 723-725.	27.8	126
12	The Design of Functional DNA-Binding Proteins Based on Zinc Finger Domains. <i>Chemical Reviews</i> , 2004, 104, 789-800.	47.7	120
13	Preprints for the life sciences. <i>Science</i> , 2016, 352, 899-901.	12.6	119
14	Zinc Finger Domains: From Predictions to Design. <i>Accounts of Chemical Research</i> , 1995, 28, 14-19.	15.6	112
15	Redesigning the DNA-binding specificity of a zinc finger protein: A data base-guided approach. <i>Proteins: Structure, Function and Bioinformatics</i> , 1992, 12, 101-104.	2.6	104
16	The structure of a centrosymmetric protein crystal. <i>Proteins: Structure, Function and Bioinformatics</i> , 1993, 16, 301-305.	2.6	102
17	A racemic protein. <i>Journal of the American Chemical Society</i> , 1992, 114, 4002-4003.	13.7	93
18	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> , 2005, 334, 1191-1197.	2.1	89

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19	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> , 1996, 110, 96-101.	1.6	88
20	A comparison of the immunogenicity of a pair of enantiomeric proteins. <i>Proteins: Structure, Function and Bioinformatics</i> , 1993, 16, 306-308.	2.6	86
21	Nucleic acid-binding proteins: More metal-binding fingers. <i>Nature</i> , 1986, 319, 264-265.	27.8	83
22	Separation of intramolecular NOE and exchange peaks in water exchange spectroscopy using spin-echo filters. <i>Journal of Biomolecular NMR</i> , 1996, 7, 77-82.	2.8	73
23	Structural results relevant to the molybdenum sites in xanthine oxidase and sulfite oxidase. Crystal structures of MoO ₂ L ₂ L = (SCH ₂ CH ₂) ₂ NCH ₂ CH ₂ X with X = SCH ₃ , N(CH ₃) ₂ . <i>Journal of the American Chemical Society</i> , 1979, 101, 2774-2776.	13.7	67
24	Structure-Based Thermodynamic Analysis of a Coupled Metal Binding~Protein Folding Reaction Involving a Zinc Finger Peptide. <i>Biochemistry</i> , 2002, 41, 15068-15073.	2.5	67
25	Metal Ion Affinities of the Zinc Finger Domains of the Metal Responsive Element-Binding Transcription Factor-1 (MTF1). <i>Biochemistry</i> , 2004, 43, 5437-5444.	2.5	66
26	Electrostatic Interactions across a β^2 -Sheet. <i>Biochemistry</i> , 1997, 36, 6218-6222.	2.5	65
27	Site-specific cleavage of DNA~RNA hybrids by zinc finger/FokI cleavage domain fusions. <i>Gene</i> , 1997, 203, 43-49.	2.2	65
28	TCGA Expedition: A Data Acquisition and Management System for TCGA Data. <i>PLoS ONE</i> , 2016, 11, e0165395.	2.5	62
29	Sequential Metal Binding by the RING Finger Domain of BRCA1. <i>Biochemistry</i> , 1997, 36, 10240-10245.	2.5	58
30	Zinc-finger proteins. <i>Current Opinion in Structural Biology</i> , 1993, 3, 11-16.	5.7	57
31	A nonoctahedral dioxo molybdenum complex with a coordinated partial disulfide bond. <i>Journal of the American Chemical Society</i> , 1980, 102, 3624-3626.	13.7	56
32	Design and characterization of a ligand-binding metalloprotein. <i>Journal of the American Chemical Society</i> , 1991, 113, 5450-5451.	13.7	56
33	Water Exchange Filter (WEX Filter) for Nuclear Magnetic Resonance Studies of Macromolecules. <i>Journal of the American Chemical Society</i> , 1994, 116, 11982-11984.	13.7	55
34	A direct comparison of the properties of natural and designed zinc-finger proteins. <i>Chemistry and Biology</i> , 1995, 2, 83-89.	6.0	54
35	Reduction in DNA-binding affinity of Cys ₂ His ₂ zinc finger proteins by linker phosphorylation. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2004, 101, 7589-7593.	7.1	54
36	Complexes of zinc finger peptides with nickel(2+) and iron(2+). <i>Inorganic Chemistry</i> , 1992, 31, 2984-2986.	4.0	53

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37	Selective RNA Binding by a Single CCCH Zinc-Binding Domain from Nup475 (Tristetraprolin)â€. Biochemistry, 2003, 42, 4626-4630.	2.5	53
38	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
39	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
40	Pex5p binding affinities for canonical and noncanonical PTS1 peptides. Proteins: Structure, Function and Bioinformatics, 2004, 55, 856-861.	2.6	48
41	DNA Unwinding Induced by Zinc Finger Protein Binding. Biochemistry, 1996, 35, 3845-3848.	2.5	47
42	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
43	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
44	A Cys3His Zinc-Binding Domain from Nup475/Tristetraprolin:Â A Novel Fold with a Disklike Structureâ€. Biochemistry, 2003, 42, 217-221.	2.5	45
45	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
46	Correlating Structure and Affinity for PEX5:PTS1 Complexesâ€. Biochemistry, 2003, 42, 1660-1666.	2.5	43
47	Structure and Function of the Sterol Carrier Protein-2 N-Terminal Presequence. Biochemistry, 2008, 47, 5915-5934.	2.5	38
48	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
49	Probing the DNA-Binding Affinity and Specificity of Designed Zinc Finger Proteins. Biophysical Journal, 2010, 98, 852-860.	0.5	34
50	A proposed model for the PEX5-peroxisomal targeting signal-1 recognition complex. , 2000, 38, 241-246.		33
51	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
52	Kinetics of metal binding by a zinc finger peptide. Inorganica Chimica Acta, 2000, 297, 217-219.	2.4	29
53	PEX5 Binds the PTS1 Independently of Hsp70 and the Peroxin PEX12. Journal of Biological Chemistry, 2003, 278, 7897-7901.	3.4	29
54	NMR studies of a cobalt-substituted zinc finger peptide. Journal of the American Chemical Society, 1993, 115, 2577-2580.	13.7	28

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55	Metal-Binding Domains in Nucleic Acid-Binding and Gene-Regulatory Proteins. <i>Progress in Inorganic Chemistry</i> , 0, , 143-185.	3.0	27
56	Entropy~Enthalpy Compensation in Ionic Interactions Probed in a Zinc Finger Peptide. <i>Biochemistry</i> , 2004, 43, 10600-10604.	2.5	26
57	Kinetics and Thermodynamics of Copper(II) Binding to Apoazurin. <i>Journal of the American Chemical Society</i> , 2003, 125, 6866-6867.	13.7	25
58	Selectivity of Methylation of Metal-Bound Cysteines and Its Consequences. <i>Journal of the American Chemical Society</i> , 1998, 120, 13083-13087.	13.7	24
59	Independence of metal binding between tandem Cys ₂ His ₂ zinc finger domains. <i>Protein Science</i> , 1993, 2, 1313-1319.	7.6	22
60	Toward Ligand Identification within a CCHHC Zinc-Binding Domain from the NZF/MyT1 Family. <i>Inorganic Chemistry</i> , 2000, 39, 348-351.	4.0	21
61	Solution Structure of a CCHHC Domain of Neural Zinc Finger Factor-1 and Its Implications for DNA Binding. <i>Biochemistry</i> , 2004, 43, 898-903.	2.5	20
62	Secondary interactions involving zinc-bound ligands: Roles in structural stabilization and macromolecular interactions. <i>Journal of Inorganic Biochemistry</i> , 2012, 111, 146-149.	3.5	19
63	Serine at Position 2 in the DNA Recognition Helix of a Cys ₂ -His ₂ Zinc Finger Peptide is Not, in General, Responsible for Base Recognition. <i>Journal of Molecular Biology</i> , 1995, 252, 1-5.	4.2	16
64	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> , 2007, 368, 1259-1266.	4.2	15
65	The crystal and molecular structures of dioxo Mo(VI) complexes of tripodal, tetradentate N,S-donor ligands. <i>Inorganica Chimica Acta</i> , 1984, 90, 25-33.	2.4	13
66	[36] Centrosymmetric crystals of biomolecules: The racemate method. <i>Methods in Enzymology</i> , 1997, 276, 619-627.	1.0	13
67	Homodimerization and Heterodimerization of Minimal Zinc(II)-Binding-Domain Peptides of T-Cell Proteins CD4, CD8 α , and Lck. <i>Journal of the American Chemical Society</i> , 2009, 131, 11492-11497.	13.7	13
68	Research in academic medical centers: Two threats to sustainable support. <i>Science Translational Medicine</i> , 2015, 7, 289fs22.	12.4	12
69	Metalloprotein design. <i>Current Opinion in Structural Biology</i> , 1993, 3, 585-588.	5.7	11
70	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> , 2021, 299, 550-558.	7.3	11
71	Building a Metal Binding Domain, One Half at a Time. <i>Chemistry and Biology</i> , 2002, 9, 667-668.	6.0	9
72	Racemic macromolecules for use in x-ray crystallography. <i>Current Opinion in Biotechnology</i> , 1994, 5, 343-345.	6.6	7

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73	Letting your fingers do the walking. <i>Nature Biotechnology</i> , 1997, 15, 323-323.	17.5	7
74	Site Selection in Tandem Arrays of Metal-Binding Domains. <i>Inorganic Chemistry</i> , 2004, 43, 7897-7901.	4.0	6
75	[4] Metal requirements for nucleic acid binding proteins. <i>Methods in Enzymology</i> , 1991, 208, 46-54.	1.0	5
76	Design of Single-Stranded Nucleic Acid Binding Peptides Based on Nucleocapsid CCHC-Box Zinc-Binding Domains. <i>Journal of the American Chemical Society</i> , 2010, 132, 9638-9643.	13.7	5
77	Scientific approaches to science policy. <i>Molecular Biology of the Cell</i> , 2013, 24, 3273-3274.	2.1	2
78	Searching for Metal-Binding Domains. <i>ACS Symposium Series</i> , 1989, , 90-96.	0.5	1
79	The Design of Functional DNA-Binding Proteins Based on Zinc Finger Domains. <i>ChemInform</i> , 2004, 35, no.	0.0	0
80	Opportunities for Chemical Biologists: A View from the National Institutes of Health. <i>ACS Chemical Biology</i> , 2006, 1, 547-548.	3.4	0
81	Chemical Biology and the NIH. <i>ACS Chemical Biology</i> , 2006, 1, 9-9.	3.4	0
82	Misleading portrayal of children's asthma study. <i>Science</i> , 2021, 374, 414-414.	12.6	0
83	Structural Chemistry of Molybdenum in Metalloenzymes as Elucidated by EXAFS. , 1980, , 139-155.		0
84	Exploring the use of cobalt(II) dipolar shifts in refining the structure of a zinc finger peptide. <i>Journal of Inorganic Biochemistry</i> , 2022, 235, 111912.	3.5	0