

James E Penner-Hahn

List of Publications by Year in descending order

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163
papers

10,688
citations

25034

57
h-index

32842

100
g-index

201
all docs

201
docs citations

201
times ranked

10745
citing authors

#	ARTICLE	IF	CITATIONS
1	X-ray absorption edge determination of the oxidation state and coordination number of copper. Application to the type 3 site in <i>Rhus vernicifera</i> laccase and its reaction with oxygen. <i>Journal of the American Chemical Society</i> , 1987, 109, 6433-6442.	13.7	991
2	Effect of Dopants on Zirconia Stabilization-An X-ray Absorption Study: I, Trivalent Dopants. <i>Journal of the American Ceramic Society</i> , 1994, 77, 118-128.	3.8	527
3	Structural, Spectroscopic, and Reactivity Models for the Manganese Catalases. <i>Chemical Reviews</i> , 2004, 104, 903-938.	47.7	440
4	X-ray absorption spectroscopic studies of the blue copper site: metal and ligand K-edge studies to probe the origin of the EPR hyperfine splitting in plastocyanin. <i>Journal of the American Chemical Society</i> , 1993, 115, 767-776.	13.7	284
5	Oxidation state of gold and arsenic in gold-bearing arsenian pyrite. <i>American Mineralogist</i> , 1999, 84, 1071-1079.	1.9	277
6	Effect of Dopants on Zirconia Stabilization-An X-ray Absorption Study: II, Tetravalent Dopants. <i>Journal of the American Ceramic Society</i> , 1994, 77, 1281-1288.	3.8	275
7	Structural characterization of horseradish peroxidase using EXAFS spectroscopy. Evidence for Fe = O ligation in compounds I and II. <i>Journal of the American Chemical Society</i> , 1986, 108, 7819-7825.	13.7	263
8	X-ray-absorption studies of zirconia polymorphs. I. Characteristic local structures. <i>Physical Review B</i> , 1993, 48, 10063-10073.	3.2	263
9	X-ray-absorption studies of zirconia polymorphs. II. Effect of Y ₂ O ₃ dopant on ZrO ₂ structure. <i>Physical Review B</i> , 1993, 48, 10074-10081.	3.2	223
10	Cu(I) recognition via cation- π and methionine interactions in CusF. <i>Nature Chemical Biology</i> , 2008, 4, 107-109.	8.0	220
11	Reexamination of Lead(II) Coordination Preferences in Sulfur-Rich Sites: Implications for a Critical Mechanism of Lead Poisoning. <i>Journal of the American Chemical Society</i> , 2005, 127, 9495-9505.	13.7	211
12	A Short Fe-Fe Distance in Peroxodiferric Ferritin: Control of Fe Substrate Versus Cofactor Decay?. <i>Science</i> , 2000, 287, 122-125.	12.6	184
13	Structural Characterization and Thermal Stability of MoS ₂ Intercalation Compounds. <i>Chemistry of Materials</i> , 1998, 10, 2152-2161.	6.7	174
14	Synthesis, Characterization, and <i>in Vitro</i> Testing of Superparamagnetic Iron Oxide Nanoparticles Targeted Using Folic Acid-Conjugated Dendrimers. <i>ACS Nano</i> , 2008, 2, 773-783.	14.6	163
15	Polarized x-ray absorption edge spectroscopy of single-crystal copper(II) complexes. <i>Journal of the American Chemical Society</i> , 1985, 107, 5945-5955.	13.7	162
16	Effect of Dopants on Zirconia Stabilization-An X-ray Absorption Study: III, Charge-Compensating Dopants. <i>Journal of the American Ceramic Society</i> , 1994, 77, 1289-1295.	3.8	160
17	De Novo Design of Mercury-Binding Two- and Three-Helical Bundles. <i>Journal of the American Chemical Society</i> , 1997, 119, 6195-6196.	13.7	157
18	Tetrathiomolybdate Inhibits Copper Trafficking Proteins Through Metal Cluster Formation. <i>Science</i> , 2010, 327, 331-334.	12.6	151

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19	Characterization of spectroscopically quiet metals in biology. <i>Coordination Chemistry Reviews</i> , 2005, 249, 161-177.	18.8	144
20	Cobalamin-Independent Methionine Synthase from <i>Escherichia coli</i> : A Zinc Metalloenzyme. <i>Biochemistry</i> , 1996, 35, 12228-12234.	2.5	141
21	Determination of the chemical environment of sulphur in petroleum asphaltenes by X-ray absorption spectroscopy. <i>Fuel</i> , 1992, 71, 53-57.	6.4	133
22	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> , 1998, 120, 8401-8409.	13.7	133
23	Structural and Magnetic Effects of Successive Protonations of Oxo Bridges in High-Valent Manganese Dimers. <i>Journal of the American Chemical Society</i> , 1994, 116, 11349-11356.	13.7	130
24	Comparison of the Binding of Cadmium(II), Mercury(II), and Arsenic(III) to the de Novo Designed Peptides TRI L12C and TRI L16C. <i>Journal of the American Chemical Society</i> , 2002, 124, 8042-8054.	13.7	129
25	The physical and chemical action of fire suppressants. <i>Fire Safety Journal</i> , 1989, 15, 437-450.	3.1	118
26	Characterization of the Metal Receptor Sites in <i>Escherichia coli</i> Zur, an Ultrasensitive Zinc(II) Metalloregulatory Protein. <i>Biochemistry</i> , 2001, 40, 10417-10423.	2.5	106
27	Elucidating the Protonation Site of Vanadium Peroxide Complexes and the Implications for Biomimetic Catalysis. <i>Journal of the American Chemical Society</i> , 2008, 130, 2712-2713.	13.7	105
28	Designing a functional type 2 copper center that has nitrite reductase activity within α -helical coiled coils. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2012, 109, 21234-21239.	7.1	101
29	Structural characterization of the binuclear Mn site in <i>Lactobacillus plantarum</i> manganese catalase. <i>Journal of the American Chemical Society</i> , 1992, 114, 5869-5870.	13.7	100
30	Mechanism of manganese catalase peroxide disproportionation: determination of manganese oxidation states during turnover. <i>Biochemistry</i> , 1995, 34, 1507-1512.	2.5	100
31	X-ray Absorption Spectroscopy of Calcium-Substituted Derivatives of the Oxygen-Evolving Complex of Photosystem II. <i>Journal of the American Chemical Society</i> , 1996, 118, 2400-2410.	13.7	99
32	Reduced Derivatives of the Mn Cluster in the Oxygen-Evolving Complex of Photosystem II: An EXAFS Study. <i>Journal of the American Chemical Society</i> , 1996, 118, 2387-2399.	13.7	99
33	Coordination chemistry of the Hg-MerR metalloregulatory protein: evidence for a novel tridentate mercury-cysteine receptor site. <i>Journal of the American Chemical Society</i> , 1990, 112, 2434-2435.	13.7	90
34	The fused metallacrown anion $\text{Na}_2\{[\text{Na}_0.5\{\text{Ga}(\text{salicylhydroximate})_4\}_2(\mu_2\text{-OH})_4]\}$ is an inorganic analog of a cryptate. <i>Journal of the American Chemical Society</i> , 1993, 115, 5857-5858.	13.7	90
35	Identification of the Zinc Ligands in Cobalamin-Independent Methionine Synthase (MetE) from <i>Escherichia coli</i> . <i>Biochemistry</i> , 1999, 38, 15915-15926.	2.5	87
36	X-ray Absorption Spectroscopy of the Iron Site in <i>Escherichia coli</i> Fe(III) Superoxide Dismutase. <i>Biochemistry</i> , 1995, 34, 1661-1668.	2.5	85

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37	A Light-Dependent Mechanism for Massive Accumulation of Manganese in the Photosynthetic Bacterium <i>Synechocystis</i> sp. PCC 6803. <i>Biochemistry</i> , 2002, 41, 15085-15092.	2.5	85
38	Reduced derivatives of the manganese cluster in the photosynthetic oxygen-evolving complex. <i>Journal of the American Chemical Society</i> , 1992, 114, 10650-10651.	13.7	81
39	A method for normalization of X-ray absorption spectra. <i>Journal of Synchrotron Radiation</i> , 2005, 12, 506-510.	2.4	81
40	Peptidic models for the binding of Pb(II), Bi(III) and Cd(II) to mononuclear thiolate binding sites. <i>Journal of Biological Inorganic Chemistry</i> , 2006, 11, 876-890.	2.6	80
41	A Mutant Human IscU Protein Contains a Stable [2Fe ²⁺ S] ₂ Center of Possible Functional Significance. <i>Journal of the American Chemical Society</i> , 2000, 122, 6805-6806.	13.7	79
42	Oxidation-state assignments for galactose oxidase complexes from x-ray absorption spectroscopy. Evidence for copper(II) in the active enzyme. <i>Journal of the American Chemical Society</i> , 1990, 112, 6433-6434.	13.7	78
43	X-ray Absorption Studies of Ceria with Trivalent Dopants. <i>Journal of the American Ceramic Society</i> , 1991, 74, 958-967.	3.8	75
44	Arsenic(III)-Cysteine Interactions Stabilize Three-Helix Bundles in Aqueous Solution. <i>Inorganic Chemistry</i> , 2000, 39, 5422-5423.	4.0	74
45	Characterization of the Zinc Sites in Cobalamin-Independent and Cobalamin-Dependent Methionine Synthase Using Zinc and Selenium X-ray Absorption Spectroscopy. <i>Biochemistry</i> , 2001, 40, 987-993.	2.5	72
46	Zinc stabilization of prefibrillar oligomers of human islet amyloid polypeptide. <i>Chemical Communications</i> , 2013, 49, 3339.	4.1	72
47	Coencapsulation of Arsenic- and Platinum-based Drugs for Targeted Cancer Treatment. <i>Angewandte Chemie - International Edition</i> , 2009, 48, 9295-9299.	13.8	69
48	A De novo Designed Metalloenzyme for the Hydration of CO ₂ . <i>Angewandte Chemie - International Edition</i> , 2014, 53, 7900-7903.	13.8	69
49	Structural Characterization of the Zinc Site in Protein Farnesyltransferase. <i>Journal of the American Chemical Society</i> , 2003, 125, 9962-9969.	13.7	67
50	Structural characterization of organocopper reagents by EXAFS spectroscopy. <i>Journal of the American Chemical Society</i> , 1993, 115, 348-350.	13.7	66
51	An EXAFS spectroscopic study of solvates of copper(I) and copper(II) in acetonitrile, dimethyl sulfoxide, pyridine, and tetrahydrothiophene solutions and a large-angle x-ray scattering study of the copper(II) acetonitrile solvate in solution. <i>Inorganic Chemistry</i> , 1993, 32, 2497-2501.	4.0	65
52	X-ray-absorption studies of zirconia polymorphs. III. Static distortion and thermal distortion. <i>Physical Review B</i> , 1993, 48, 10082-10089.	3.2	64
53	Polarized XANES Monitors Femtosecond Structural Evolution of Photoexcited Vitamin B ₁₂ . <i>Journal of the American Chemical Society</i> , 2017, 139, 1894-1899.	13.7	64
54	Mechanism for the Homolytic Cleavage of Alkyl Hydroperoxides by the Manganese(III) Dimer Mn ^{III} (2-OHsalpn) ₂ . <i>Inorganic Chemistry</i> , 1996, 35, 3577-3584.	4.0	62

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55	A C/MoS ₂ mixed-layer phase (MoSC) occurring in metalliferous black shales from southern China, and new data on jordisite. <i>American Mineralogist</i> , 2001, 86, 852-861.	1.9	62
56	X-ray absorption spectroscopy of the [2-iron-2-sulfur] Rieske cluster in <i>Pseudomonas cepacia</i> phthalate dioxygenase. Determination of core dimensions and iron ligation. <i>Biochemistry</i> , 1989, 28, 7233-7240.	2.5	61
57	XANES Evidence Against a Manganyl Species in the S3 State of the Oxygen-Evolving Complex. <i>Journal of the American Chemical Society</i> , 2004, 126, 8070-8071.	13.7	61
58	The PcoC Copper Resistance Protein Coordinates Cu(I) via Novel S-Methionine Interactions. <i>Journal of the American Chemical Society</i> , 2003, 125, 342-343.	13.7	60
59	Fluxes in Ca^{2+} and Total Zinc Are Essential for Progression of Intraerythrocytic Stages of <i>Plasmodium falciparum</i> . <i>Chemistry and Biology</i> , 2012, 19, 731-741.	6.0	60
60	Inactivation and reactivation of manganese catalase: oxidation-state assignments using x-ray absorption spectroscopy. <i>Biochemistry</i> , 1991, 30, 10486-10490.	2.5	55
61	Models for the Lower S States of Photosystem II: A Trinuclear Mixed-Valent MnII/MnIV/MnII Complex. <i>Inorganic Chemistry</i> , 2003, 42, 2185-2187.	4.0	55
62	An Atypical Linear Cu(I)-S ₂ Center Constitutes the High-Affinity Metal-Sensing Site in the CueR Metalloregulatory Protein. <i>Journal of the American Chemical Society</i> , 2003, 125, 12088-12089.	13.7	54
63	Syngas and HDS catalysts derived from sulphido bimetallic clusters. <i>Polyhedron</i> , 1988, 7, 2411-2420.	2.2	53
64	Zinc-promoted alkyl transfer: a new role for zinc. <i>Current Opinion in Chemical Biology</i> , 2007, 11, 166-171.	6.1	52
65	Electrochemical and Structural Investigation of the Mechanism of Irreversibility in Li ₃ V ₂ (PO ₄) ₃ Cathodes. <i>Journal of Physical Chemistry C</i> , 2016, 120, 7005-7012.	3.1	51
66	De Novo-Designed Metallopeptides with Type 2 Copper Centers: Modulation of Reduction Potentials and Nitrite Reductase Activities. <i>Journal of the American Chemical Society</i> , 2013, 135, 18096-18107.	13.7	49
67	Structural characterization of the Mn site in the photosynthetic oxygen-evolving complex. <i>Structure and Bonding</i> , 1998, , 1-36.	1.0	49
68	Oxygenated cytochrome P-450-CAM and chloroperoxidase: direct evidence for sulfur donor ligation trans to dioxygen and structural characterization using EXAFS spectroscopy. <i>Journal of the American Chemical Society</i> , 1986, 108, 8114-8116.	13.7	47
69	Characterization of the Heme in Human Cystathionine β -Synthase by X-ray Absorption and Electron Paramagnetic Resonance Spectroscopies. <i>Biochemistry</i> , 2000, 39, 10542-10547.	2.5	46
70	Low-temperature x-ray absorption spectroscopy of plastocyanin: evidence for copper-site photoreduction at cryogenic temperatures. <i>Inorganic Chemistry</i> , 1989, 28, 1826-1832.	4.0	45
71	Understanding Spin Structure in Metallocrown Single-Molecule Magnets using Magnetic Compton Scattering. <i>Journal of the American Chemical Society</i> , 2014, 136, 4889-4892.	13.7	45
72	Structural Characterization of the Copper Site in Galactose Oxidase Using X-ray Absorption Spectroscopy. <i>Biochemistry</i> , 1994, 33, 12553-12557.	2.5	39

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73	Spectroscopic Characterization of Inhibitor Interactions with the Mn(III)/Mn(IV) Core in <i>Lactobacillus plantarum</i> Manganese Catalase. <i>Journal of the American Chemical Society</i> , 1997, 119, 9215-9225.	13.7	39
74	Reactivity of $[\text{MnIV}(\text{salpn})_2(\text{O}^{\frac{1}{4}}\text{-O}^{\frac{1}{4}}\text{-OCH}_3)]^+$ and $[\text{MnIV}(\text{salpn})_2(\text{O}^{\frac{1}{4}}\text{-O}^{\frac{1}{4}}\text{-OH})]^+$: Effects of Proton Lability and Hydrogen Bonding. <i>Inorganic Chemistry</i> , 1999, 38, 4801-4809.	4.0	39
75	Polarized x-ray absorption near-edge structure of highly oxidized chromium porphyrins. <i>Inorganic Chemistry</i> , 1986, 25, 2255-2259.	4.0	38
76	X-Ray Absorption Spectroscopy of Dimethylcuprates: Evidence for Solvent-Dependent Aggregation. <i>Angewandte Chemie - International Edition</i> , 1998, 37, 1564-1566.	13.8	38
77	EXAFS studies of the zinc sites of UDP-(3-O-acyl)-N-acetylglucosamine deacetylase (LpxC). <i>Journal of Inorganic Biochemistry</i> , 2003, 94, 78-85.	3.5	36
78	Pseudocapacitive charge storage via hydrogen insertion for molybdenum nitrides. <i>Journal of Power Sources</i> , 2015, 289, 154-159.	7.8	36
79	Ultrafast X-ray Absorption Near Edge Structure Reveals Ballistic Excited State Structural Dynamics. <i>Journal of Physical Chemistry A</i> , 2018, 122, 4963-4971.	2.5	34
80	Non-heme High-Spin $\{\text{FeNO}\}^{\text{S}}_6$ Complexes: One Ligand Platform Can Do It All. <i>Journal of the American Chemical Society</i> , 2018, 140, 11341-11359.	13.7	34
81	Simulation of Multifrequency EPR Spectra from Mn(III)/Mn(IV) Catalase of <i>Lactobacillus plantarum</i> Using a New Approach Based on Perturbation Theory. <i>Inorganic Chemistry</i> , 1994, 33, 2677-2682.	4.0	32
82	Zinc-Thiolate Intermediate in Catalysis of Methyl Group Transfer in <i>Methanosarcina barkeri</i> . <i>Biochemistry</i> , 2001, 40, 13068-13078.	2.5	32
83	Structural and Electrochemical Investigation of $\text{Li}(\text{Ni}_{0.4}\text{Co}_{0.15}\text{Al}_{0.05}\text{Mn}_{0.4})\text{ETQq1}$ 1 0.7843 14 rgBT / Qverlock	2.9	32
84	Activation of <i>Escherichia coli</i> UDP-3-O-(3-hydroxymyristoyl)-N-acetylglucosamine Deacetylase by Fe^{2+} Yields a More Efficient Enzyme with Altered Ligand Affinity. <i>Biochemistry</i> , 2010, 49, 2246-2255.	2.5	32
85	Geometric and Electrostatic Study of the [4Fe-4S] Cluster of Adenosine-5'-Phosphosulfate Reductase from Broken Symmetry Density Functional Calculations and Extended X-ray Absorption Fine Structure Spectroscopy. <i>Inorganic Chemistry</i> , 2011, 50, 6610-6625.	4.0	30
86	Structural and Physical Characterization of Tetranuclear $[\text{Mn}^{\text{II}}_3\text{Mn}^{\text{IV}}]$ and $[\text{Mn}^{\text{II}}_2\text{Mn}^{\text{III}}_2]$ Valence-Isomer Manganese Complexes. <i>Inorganic Chemistry</i> , 2008, 47, 6127-6136.	4.0	29
87	Determining the coordination environment and electronic structure of polymer-encapsulated cobalt phthalocyanine under electrocatalytic CO_2 reduction conditions using <i>in situ</i> X-Ray absorption spectroscopy. <i>Dalton Transactions</i> , 2020, 49, 16329-16339.	3.3	29
88	Structural Basis for the Functional Switch of the <i>E. coli</i> Ada Protein. <i>Biochemistry</i> , 2001, 40, 4261-4271.	2.5	28
89	The McbB Component of Microcin B17 Synthetase Is a Zinc Metalloprotein. <i>Biochemistry</i> , 2000, 39, 16190-16199.	2.5	27
90	<i>De Novo</i> Design and Characterization of Copper Metallopeptides Inspired by Native Cupredoxins. <i>Inorganic Chemistry</i> , 2015, 54, 9470-9482.	4.0	25

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91	The Photoactive Excited State of the B ₁₂ -Based Photoreceptor CarH. <i>Journal of Physical Chemistry B</i> , 2020, 124, 10732-10738.	2.6	25
92	Formation of gold(I) halide and thiocyanate complexes in pyridine and acetonitrile and the structures of gold(I) solvates in these solvents. A thermodynamic and EXAFS spectroscopic study. <i>Inorganic Chemistry</i> , 1989, 28, 1833-1838.	4.0	24
93	Preliminary x-ray analysis of <i>Escherichia coli</i> GMP synthetase: Determination of anomalous scattering factors for a cysteinyl mercury derivative. <i>Proteins: Structure, Function and Bioinformatics</i> , 1994, 18, 394-403.	2.6	24
94	Element-Specific Detection in Capillary Electrophoresis Using X-ray Fluorescence Spectroscopy. <i>Analytical Chemistry</i> , 2000, 72, 1754-1758.	6.5	24
95	Modifying the Steric Properties in the Second Coordination Sphere of Designed Peptides Leads to Enhancement of Nitrite Reductase Activity. <i>Angewandte Chemie - International Edition</i> , 2018, 57, 3954-3957.	13.8	23
96	Sulfidation of organic matter associated with gold mineralization, Pueblo viejo, Dominican republic. <i>Applied Geochemistry</i> , 1990, 5, 237-248.	3.0	22
97	The electrochemical and local structural analysis of the mesoporous Li ₄ Ti ₅ O ₁₂ anode. <i>Journal of Power Sources</i> , 2014, 268, 294-300.	7.8	22
98	<i>M-BLANK</i> : a program for the fitting of X-ray fluorescence spectra. <i>Journal of Synchrotron Radiation</i> , 2019, 26, 497-503.	2.4	21
99	NMR Characterization of Substrate Binding in the Phthalate Dioxygenase System. <i>Biochemistry</i> , 1999, 38, 11051-11061.	2.5	20
100	Probing reactive sites within the Photosystem II manganese cluster: Evidence for separate populations of manganese that differ in redox potential. <i>Physical Chemistry Chemical Physics</i> , 2004, 6, 4897.	2.8	20
101	BIOCHEMISTRY: The Photosynthesis "Oxygen Clock" Gets a New Number. <i>Science</i> , 2005, 310, 982-983.	12.6	20
102	An Interprotein Co ^{II} S Coordination Complex in the B ₁₂ -Trafficking Pathway. <i>Journal of the American Chemical Society</i> , 2020, 142, 16334-16345.	13.7	20
103	Conversion of a Fe ₂ S ₂ Ferredoxin into a Ga ³⁺ Rubredoxin. <i>Journal of the American Chemical Society</i> , 1995, 117, 6625-6626.	13.7	19
104	Clarifying the Copper Coordination Environment in a <i>de Novo</i> Designed Red Copper Protein. <i>Inorganic Chemistry</i> , 2018, 57, 12291-12302.	4.0	19
105	Thiol Ligation of Two Zinc Atoms to a Class I tRNA Synthetase: Evidence for Unshared Thiols and Role in Amino Acid Binding and Utilization. <i>Biochemistry</i> , 1994, 33, 14213-14220.	2.5	18
106	Ultrafast XANES Monitors Femtosecond Sequential Structural Evolution in Photoexcited Coenzyme B ₁₂ . <i>Journal of Physical Chemistry B</i> , 2020, 124, 199-209.	2.6	17
107	X-ray Absorption Spectroscopy of the Zinc Site in tRNA-Guanine Transglycosylase from <i>Escherichia coli</i> . <i>Biochemistry</i> , 1996, 35, 3133-3139.	2.5	16
108	Abnormal metal levels in the primary visual pathway of the DBA/2J mouse model of glaucoma. <i>BioMetals</i> , 2014, 27, 1291-1301.	4.1	16

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109	Further insights into the metal ion binding abilities and the metalation pathway of a plant metallothionein from <i>Musa acuminata</i> . <i>Journal of Biological Inorganic Chemistry</i> , 2018, 23, 91-107.	2.6	16
110	Incorporation of second coordination sphere d-amino acids alters Cd(II) geometries in designed thiolate-rich proteins. <i>Journal of Biological Inorganic Chemistry</i> , 2018, 23, 123-135.	2.6	16
111	Development of a Rubredoxin-Type Center Embedded in a <i>de Novo</i> -Designed Three-Helix Bundle. <i>Biochemistry</i> , 2018, 57, 2308-2316.	2.5	16
112	Rational De Novo Design of a Cu Metalloenzyme for Superoxide Dismutation. <i>Chemistry - A European Journal</i> , 2020, 26, 249-258.	3.3	16
113	Probing a Silent Metal: A Combined X-ray Absorption and Emission Spectroscopic Study of Biologically Relevant Zinc Complexes. <i>Inorganic Chemistry</i> , 2020, 59, 13551-13560.	4.0	16
114	Methylated Histidines Alter Tautomeric Preferences that Influence the Rates of Cu Nitrite Reductase Catalysis in Designed Peptides. <i>Journal of the American Chemical Society</i> , 2019, 141, 7765-7775.	13.7	15
115	Introduction: X-rays in Chemistry. <i>Chemical Reviews</i> , 2001, 101, 1567-1568.	47.7	12
116	Fibroblasts From Long-Lived Rodent Species Exclude Cadmium. <i>Journals of Gerontology - Series A Biological Sciences and Medical Sciences</i> , 2015, 70, 10-19.	3.6	12
117	Probing the Excited State of Methylcobalamin Using Polarized Time-Resolved X-ray Absorption Spectroscopy. <i>Journal of Physical Chemistry B</i> , 2019, 123, 6042-6048.	2.6	12
118	Differential anomalous x-ray scattering evidence for the existence of μ -H ₃ O ₂ -bridging ligands in solution. <i>Journal of the American Chemical Society</i> , 1986, 108, 8116-8117.	13.7	11
119	Chapter 10 Structure and Dynamics of Metalloproteins in Live Cells. <i>Methods in Cell Biology</i> , 2008, 90, 199-216.	1.1	11
120	Technologies for Detecting Metals in Single Cells. <i>Metal Ions in Life Sciences</i> , 2013, 12, 15-40.	2.8	11
121	Development of a single-cell X-ray fluorescence flow cytometer. <i>Journal of Synchrotron Radiation</i> , 2016, 23, 901-908.	2.4	10
122	Electrochemical and structural investigation of Mg-doped Li ₃ V(2-x/3)Mgx(PO ₄) ₃ . <i>Journal of Power Sources</i> , 2018, 396, 491-497.	7.8	10
123	Antivitamins B ₁₂ in a Microdrop: The Excited-State Structure of a Precious Sample Using Transient Polarized X-ray Absorption Near-Edge Structure. <i>Journal of Physical Chemistry Letters</i> , 2019, 10, 5484-5489.	4.6	10
124	Traversing the Red-Green-Blue Color Spectrum in Rationally Designed Cupredoxins. <i>Journal of the American Chemical Society</i> , 2020, 142, 15282-15294.	13.7	10
125	Making or Breaking Metal-Dependent Catalytic Activity: The Role of Stammers in Designed Three-Stranded Coiled Coils. <i>Angewandte Chemie - International Edition</i> , 2020, 59, 20445-20449.	13.8	10
126	Characterization of rhodium olefin complexes chemisorbed onto γ -alumina by solid-state ¹³ C NMR and EXAFS spectroscopies. <i>Organometallics</i> , 1991, 10, 3803-3806.	2.3	9

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127	Snapshots of transition states?. , 2003, 10, 75-77.		8
128	Modifying the Steric Properties in the Second Coordination Sphere of Designed Peptides Leads to Enhancement of Nitrite Reductase Activity. <i>Angewandte Chemie</i> , 2018, 130, 4018-4021.	2.0	8
129	Is the Allylpalladium Structure Altered between Solid and Solutions?. <i>Journal of the American Chemical Society</i> , 2004, 126, 9079-9084.	13.7	7
130	Temperature Dependent Rh.cntdot..cntdot..cntdot.Rh EXAFS in Dinuclear and Adsorbed Rhodium Species. <i>Journal of the American Chemical Society</i> , 1995, 117, 5861-5862.	13.7	6
131	Structural Characterization of Manganese Redox Enzymes. <i>Advances in Chemistry Series</i> , 1996, , 219-248.	0.6	6
132	X-ray microprobe imaging and X-ray microspectroscopy in biology. <i>Synchrotron Radiation News</i> , 2000, 13, 22-30.	0.8	6
133	Molybdenum LII,III Edge Studies. <i>Springer Proceedings in Physics</i> , 1984, , 64-66.	0.2	6
134	Atomic Structure Studies of Zirconia Solid Solutions by EXAFS. <i>Materials Research Society Symposia Proceedings</i> , 1993, 307, 27.	0.1	5
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