Stephen P Cramer

List of Publications by Year
in descending order

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150 papers	7,296 citations	38742 50 h-index	64796 79 g-index
155 all docs	155 docs citations	155 times ranked	5269 citing authors

#	Article	IF	Citations
1	From inert gas to fertilizer, fuel and fine chemicals: N2 reduction and fixation. Catalysis Today, 2022, 387, 186-196.	4.4	4
2	Carbon monoxide binding to Î±-R277H Mo-nitrogenase â€“ Evidence for multiple pH-dependent species from IR-monitored photolysis. Journal of Inorganic Biochemistry, 2022, 232, 111806.	3.5	1
3	Ein neuer Aufbau zur Untersuchung der Struktur und Funktion von solvatisierten, lyophilisierten und kristallinen Metalloenzymen â€“ veranschaulicht anhand von [NiFe]â€Hydrogenasen. Angewandte Chemie, 2021, 133, 15988-15996.	2.0	0
4	Exploring Structure and Function of Redox Intermediates in [NiFe]â€Hydrogenases by an Advanced Experimental Approach for Solvated, Lyophilized and Crystallized Metalloenzymes. Angewandte Chemie - International Edition, 2021, 60, 15854-15862.	13.8	15
5	Vibrational Perturbation of the [FeFe] Hydrogenase H-Cluster Revealed by ¹³C²H-ADT Labeling. Journal of the American Chemical Society, 2021, 143, 8237-8243.	13.7	4
6	Frontispiz: Ein neuer Aufbau zur Untersuchung der Struktur und Funktion von solvatisierten, lyophilisierten und kristallinen Metalloenzymen â€“ veranschaulicht anhand von [NiFe]â€Hydrogenasen. Angewandte Chemie, 2021, 133, .	2.0	0
7	Frontispiece: Exploring Structure and Function of Redox Intermediates in [NiFe]â€Hydrogenases by an Advanced Experimental Approach for Solvated, Lyophilized and Crystallized Metalloenzymes. Angewandte Chemie - International Edition, 2021, 60, .	13.8	0
8	NRVS and DFT of MitoNEET: Understanding the Special Vibrational Structure of a [2Fe-2S] Cluster with (Cys)₃(His)₁ Ligation. Biochemistry, 2021, 60, 2419-2424.	2.5	3
9	Nuclear Resonance Vibrational Spectroscopy: A Modern Tool to Pinpoint Site-Specific Cooperative Processes. Crystals, 2021, 11, 909.	2.2	10
10	Hydroxy-bridged resting states of a [NiFe]-hydrogenase unraveled by cryogenic vibrational spectroscopy and DFT computations. Chemical Science, 2021, 12, 2189-2197.	7.4	17
11	High-Frequency Feâ€“H and Feâ€“H2 Modes in a trans-Fe(Î·2-H2)(H) Complex: A Speed Record for Nuclear Resonance Vibrational Spectroscopy. Inorganic Chemistry, 2021, 60, 555-559.	4.0	2
12	Spectroscopic and Computational Evidence that [FeFe] Hydrogenases Operate Exclusively with CO-Bridged Intermediates. Journal of the American Chemical Society, 2020, 142, 222-232.	13.7	63
13	In Vitro Assembly as a Tool to Investigate Catalytic Intermediates of [NiFe]-Hydrogenase. ACS Catalysis, 2020, 10, 13890-13894.	11.2	13
14	Vibrational characterization of a diiron bridging hydride complex â€“ a model for hydrogen catalysis. Chemical Science, 2020, 11, 5487-5493.	7.4	12
15	Caught in the H inact : Crystal Structure and Spectroscopy Reveal a Sulfur Bound to the Active Site of an O 2 â€stable State of [FeFe] Hydrogenase. Angewandte Chemie - International Edition, 2020, 59, 16786-16794.	13.8	40
16	Kristallstruktur und Spektroskopie offenbaren einen Schwefelâ€Liganden am aktiven Zentrum einer O 2 â€stabilen [FeFe]â€Hydrogenase. Angewandte Chemie, 2020, 132, 16930.	2.0	6
17	The large subunit of the regulatory [NiFe]-hydrogenase fromRalstonia eutrophaâ€“ a minimal hydrogenase?. Chemical Science, 2020, 11, 5453-5465.	7.4	20
18	Nuclear Resonaynce Vibrational Spectroscopy. Biological and Medical Physics Series, 2020, , 257-278.	0.4	4

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19	Insights from 125Te and 57Fe nuclear resonance vibrational spectroscopy: a [4Feâ€“4Te] cluster from two points of view. Chemical Science, 2019, 10, 7535-7541.	7.4	5
20	Asymmetry in the Ligand Coordination Sphere of the [FeFe] Hydrogenase Active Site Is Reflected in the Magnetic Spin Interactions of the Aza-propanedithiolate Ligand. Journal of Physical Chemistry Letters, 2019, 10, 6794-6799.	4.6	22
21	Preliminary Assignment of Protonated and Deprotonated Homocitrates in Extracted FeMo-Cofactors by Comparisons with Molybdenum(IV) Lactates and Oxidovanadium Glycolates. Inorganic Chemistry, 2019, 58, 2523-2532.	4.0	13
22	Sterically Stabilized Terminal Hydride of a Diiron Dithiolate. Inorganic Chemistry, 2018, 57, 1988-2001.	4.0	21
23	Cluster-Dependent Charge-Transfer Dynamics in Ironâ€“Sulfur Proteins. Biochemistry, 2018, 57, 978-990.	2.5	11
24	Enzymatic and spectroscopic properties of a thermostable [NiFe]â€‘hydrogenase performing H2-driven NAD+-reduction in the presence of O2. Biochimica Et Biophysica Acta - Bioenergetics, 2018, 1859, 8-18.	1.0	14
25	Highâ€Frequency Feâ€“H Vibrations in a Bridging Hydride Complex Characterized by NRVS and DFT. Angewandte Chemie, 2018, 130, 9511-9515.	2.0	2
26	NRVS for Fe in Biology: Experiment and Basic Interpretation. Methods in Enzymology, 2018, 599, 409-425.	1.0	12
27	Highâ€Frequency Feâ€“H Vibrations in a Bridging Hydride Complex Characterized by NRVS and DFT. Angewandte Chemie - International Edition, 2018, 57, 9367-9371.	13.8	14
28	Terminal Hydride Species in [FeFe]â€Hydrogenases Are Vibrationally Coupled to the Active Site Environment. Angewandte Chemie, 2018, 130, 10765-10769.	2.0	4
29	Terminal Hydride Species in [FeFe]â€Hydrogenases Are Vibrationally Coupled to the Active Site Environment. Angewandte Chemie - International Edition, 2018, 57, 10605-10609.	13.8	29
30	Spectroscopic and Computational Investigations of Ligand Binding to IspH: Discovery of Nonâ€diphosphate Inhibitors. ChemBioChem, 2017, 18, 914-920.	2.6	10
31	Direct Observation of an Iron-Bound Terminal Hydride in [FeFe]-Hydrogenase by Nuclear Resonance Vibrational Spectroscopy. Journal of the American Chemical Society, 2017, 139, 4306-4309.	13.7	155
32	Reaction Coordinate Leading to H₂ Production in [FeFe]-Hydrogenase Identified by Nuclear Resonance Vibrational Spectroscopy and Density Functional Theory. Journal of the American Chemical Society, 2017, 139, 16894-16902.	13.7	78
33	Ultrafast Charge-Transfer Dynamics in the Ironâ€“Sulfur Complex of Rhodobacter capsulatus Ferredoxin VI. Journal of Physical Chemistry Letters, 2017, 8, 4498-4503.	4.6	5
34	Temperature and radiation effects at the fluorine K-edge in LiF. Journal of Electron Spectroscopy and Related Phenomena, 2017, 218, 30-34.	1.7	9
35	Synchrotron-based Nickel MÃ¶ssbauer Spectroscopy. Inorganic Chemistry, 2016, 55, 6866-6872.	4.0	14
36	Nitrosylation of Nitricâ€Oxideâ€Sensing Regulatory Proteins Containing [4Feâ€4S] Clusters Gives Rise to Multiple Ironâ€“Nitrosyl Complexes. Angewandte Chemie, 2016, 128, 14795-14799.	2.0	4

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37	High-resolution monochromator for iron nuclear resonance vibrational spectroscopy of biological samples. Japanese Journal of Applied Physics, 2016, 55, 122401.	1.5	9
38	Characterization of the [3Feâ€“4S]^{0/1+}cluster from the D14C variant of Pyrococcus furiosus ferredoxin via combined NRVS and DFT analyses. Dalton Transactions, 2016, 45, 7215-7219.	3.3	8
39	Is trehalose an effective quenching agent of Azotobacter vinelandii Mo-nitrogenase turnover?. Inorganica Chimica Acta, 2016, 453, 74-77.	2.4	2
40	Asymmetric Synthesis of Homocitric Acid Lactone. Journal of Organic Chemistry, 2016, 81, 11404-11408.	3.2	8
41	Nitrosylation of Nitricâ€Oxideâ€Sensing Regulatory Proteins Containing [4Feâ€4S] Clusters Gives Rise to Multiple Ironâ€“Nitrosyl Complexes. Angewandte Chemie - International Edition, 2016, 55, 14575-14579.	13.8	33
42	The Radical SAM Enzyme HydG Requires Cysteine and a Dangler Iron for Generating an Organometallic Precursor to the [FeFe]-Hydrogenase H-Cluster. Journal of the American Chemical Society, 2016, 138, 1146-1149.	13.7	46
43	NsrR from Streptomyces coelicolor Is a Nitric Oxide-sensing [4Fe-4S] Cluster Protein with a Specialized Regulatory Function. Journal of Biological Chemistry, 2015, 290, 12689-12704.	3.4	77
44	Nuclear resonance vibrational spectroscopy reveals the FeS cluster composition and active site vibrational properties of an O₂-tolerant NAD⁺-reducing [NiFe] hydrogenase. Chemical Science, 2015, 6, 1055-1060.	7.4	27
45	Spectroscopic Investigations of [FeFe] Hydrogenase Maturated with [⁵⁷Fe₂(adt)(CN)₂(CO)₄]^{2â€“}. Journal of the American Chemical Society, 2015, 137, 8998-9005.	13.7	69
46	Low frequency dynamics of the nitrogenase MoFe protein via femtosecond pump probe spectroscopy â€” Observation of a candidate promoting vibration. Journal of Inorganic Biochemistry, 2015, 153, 128-135.	3.5	13
47	Docking and Migration of Carbon Monoxide in Nitrogenase: The Case for Gated Pockets from Infrared Spectroscopy and Molecular Dynamics. Biochemistry, 2015, 54, 3314-3319.	2.5	21
48	Hydride bridge in [NiFe]-hydrogenase observed by nuclear resonance vibrational spectroscopy. Nature Communications, 2015, 6, 7890.	12.8	96
49	Cysteine as a ligand platform in the biosynthesis of the FeFe hydrogenase H cluster. Proceedings of the National Academy of Sciences of the United States of America, 2015, 112, 11455-11460.	7.1	60
50	The HydG Enzyme Generates an Fe(CO) ₂ (CN) Synthon in Assembly of the FeFe Hydrogenase H-Cluster. Science, 2014, 343, 424-427.	12.6	109
51	Structural Characterization of CO-Inhibited Mo-Nitrogenase by Combined Application of Nuclear Resonance Vibrational Spectroscopy, Extended X-ray Absorption Fine Structure, and Density Functional Theory: New Insights into the Effects of CO Binding and the Role of the Interstitial Atom. Journal of the American Chemical Society, 2014, 136, 15942-15954.	13.7	40
52	Î±-Hydroxy coordination of mononuclear vanadyl citrate, malate and S-citramalate with N-heterocycle ligand, implying a new protonation pathway of ironâ€“vanadium cofactor in nitrogenase. Journal of Inorganic Biochemistry, 2014, 141, 114-120.	3.5	31
53	In Silico Dynamics of Carbon Monoxide in the Active Site Pocket of Nitrogenase. Biophysical Journal, 2014, 106, 608a.	0.5	0
54	A Practical Guide for Nuclear Resonance Vibrational Spectroscopy (NRVS) of Biochemical Samples and Model Compounds. Methods in Molecular Biology, 2014, 1122, 125-137.	0.9	23

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55	Characterization of [4Fe-4S] Cluster Vibrations and Structure in Nitrogenase Fe Protein at Three Oxidation Levels via Combined NRVS, EXAFS, and DFT Analyses. Journal of the American Chemical Society, 2013, 135, 2530-2543.	13.7	41
56	Structure and spectroscopy of a bidentate bis-homocitrate dioxo-molybdenum(VI) complex: Insights relevant to the structure and properties of the FeMo-cofactor in nitrogenase. Journal of Inorganic Biochemistry, 2013, 118, 100-106.	3.5	19
57	Observation of the Feï£¿CN and Feï£¿CO Vibrations in the Active Site of [NiFe] Hydrogenase by Nuclear Resonance Vibrational Spectroscopy. Angewandte Chemie - International Edition, 2013, 52, 724-728.	13.8	60
58	Inelastic X-ray Scattering of a Transition-Metal Complex (FeCl₄^{â€“}): Vibrational Spectroscopy for All Normal Modes. Inorganic Chemistry, 2013, 52, 6767-6769.	4.0	7
59	Soft X-ray absorption spectroscopy and resonant inelastic X-ray scattering spectroscopy below 100â€…eV: probing first-row transition-metalM-edges in chemical complexes. Journal of Synchrotron Radiation, 2013, 20, 614-619.	2.4	7
60	Nuclear Resonance Vibrational Spectroscopy and Electron Paramagnetic Resonance Spectroscopy of ⁵⁷Fe-Enriched [FeFe] Hydrogenase Indicate Stepwise Assembly of the H-Cluster. Biochemistry, 2013, 52, 818-826.	2.5	33
61	Enantioselective Synthesis of Isotopically Labeled Homocitric Acid Lactone. Organic Letters, 2013, 15, 5615-5617.	4.6	8
62	Nuclear resonance vibrational spectroscopy (NRVS) of rubredoxin and MoFe protein crystals. Hyperfine Interactions, 2013, 222, 77-90.	0.5	10
63	Redox, haem and CO in enzymatic catalysis and regulation. Biochemical Society Transactions, 2012, 40, 501-507.	3.4	13
64	Exploration of synchrotron MÃ¶ssbauer microscopy with micrometer resolution: forward and a new backscattering modality on natural samples. Journal of Synchrotron Radiation, 2012, 19, 814-820.	2.4	14
65	IRâ€Monitored Photolysis of COâ€Inhibited Nitrogenase: A Major EPRâ€Silent Species with Coupled Terminal CO Ligands. Chemistry - A European Journal, 2012, 18, 16349-16357.	3.3	40
66	EXAFS and NRVS Reveal a Conformational Distortion of the FeMo-cofactor in the MoFe Nitrogenase Propargyl Alcohol Complex. Journal of Inorganic Biochemistry, 2012, 112, 85-92.	3.5	50
67	Real sample temperature: a critical issue in the experiments of nuclear resonant vibrational spectroscopyÂon biological samples. Journal of Synchrotron Radiation, 2012, 19, 257-263.	2.4	10
68	Characterization of a synthetic peroxodiiron(iii) protein model complex by nuclear resonance vibrational spectroscopy. Chemical Communications, 2011, 47, 10945.	4.1	15
69	Feâ€“H/D stretching and bending modes in nuclear resonant vibrational, Raman and infrared spectroscopies: Comparisons of density functional theory and experiment. Faraday Discussions, 2011, 148, 409-420.	3.2	29
70	Dynamics of the [4Fe-4S] Cluster in Pyrococcus furiosus D14C Ferredoxin via Nuclear Resonance Vibrational and Resonance Raman Spectroscopies, Force Field Simulations, and Density Functional Theory Calculations. Biochemistry, 2011, 50, 5220-5235.	2.5	38
71	Photolysis of Hiâ€CO Nitrogenase â€“ Observation of a Plethora of Distinct CO Species Using Infrared Spectroscopy. European Journal of Inorganic Chemistry, 2011, 2011, 2064-2074.	2.0	42
72	Cell-free H-cluster Synthesis and [FeFe] Hydrogenase Activation: All Five CO and CNâ^' Ligands Derive from Tyrosine. PLoS ONE, 2011, 6, e20346.	2.5	79

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73	Observation of Terahertz Vibrations in the Nitrogenase FeMo Cofactor by Femtosecond Pumpâ€“Probe Spectroscopy. Angewandte Chemie - International Edition, 2010, 49, 3912-3915.	13.8	10
74	High-Yield Expression of Heterologous [FeFe] Hydrogenases in Escherichia coli. PLoS ONE, 2010, 5, e15491.	2.5	144
75	Synthesis of the 2Fe subcluster of the [FeFe]-hydrogenase H cluster on the HydF scaffold. Proceedings of the National Academy of Sciences of the United States of America, 2010, 107, 10448-10453.	7.1	129
76	Characterization of Iron Dinitrosyl Species Formed in the Reaction of Nitric Oxide with a Biological Rieske Center. Journal of the American Chemical Society, 2010, 132, 18168-18176.	13.7	126
77	[FeFe]-Hydrogenase Maturation: HydG-Catalyzed Synthesis of Carbon Monoxide. Journal of the American Chemical Society, 2010, 132, 9247-9249.	13.7	149
78	Identification of Protein-Bound Dinitrosyl Iron Complexes by Nuclear Resonance Vibrational Spectroscopy. Journal of the American Chemical Society, 2010, 132, 6914-6916.	13.7	72
79	Molybdenum X-ray absorption edges from 200 to 20,000eV: The benefits of soft X-ray spectroscopy for chemical speciation. Journal of Inorganic Biochemistry, 2009, 103, 157-167.	3.5	40
80	A novel solution reaction of hexahydridoferrate(4â˜) with iron(II) that produces iron particles. Inorganica Chimica Acta, 2008, 361, 1552-1554.	2.4	2
81	X-ray photochemistry in iron complexes from Fe(0) to Fe(IV) â€“ Can a bug become a feature?. Inorganica Chimica Acta, 2008, 361, 1157-1165.	2.4	31
82	A Combined NRVS and DFT Study of Fe^{IV}ï£¾O Model Complexes: A Diagnostic Method for the Elucidation of Nonâ€Heme Iron Enzyme Intermediates. Angewandte Chemie - International Edition, 2008, 47, 9071-9074.	13.8	49
83	Characterization of the Fe Site in Ironâ˜Sulfur Cluster-Free Hydrogenase (Hmd) and of a Model Compound via Nuclear Resonance Vibrational Spectroscopy (NRVS). Inorganic Chemistry, 2008, 47, 3969-3977.	4.0	97
84	Extended X-ray Absorption Fine Structure and Nuclear Resonance Vibrational Spectroscopy Reveal that NifB-co, a FeMo-co Precursor, Comprises a 6Fe Core with an Interstitial Light Atom. Journal of the American Chemical Society, 2008, 130, 5673-5680.	13.7	59
85	Dynamics ofRhodobacter capsulatus[2Fe-2S] Ferredoxin VI andAquifex aeolicusFerredoxin 5 via Nuclear Resonance Vibrational Spectroscopy (NRVS) and Resonance Raman Spectroscopyâ€. Biochemistry, 2008, 47, 6612-6627.	2.5	34
86	Identification of a Moâ˜Feâ˜S Cluster on NifEN by Mo K-Edge Extended X-ray Absorption Fine Structure. Journal of the American Chemical Society, 2007, 129, 3060-3061.	13.7	17
87	In Situ X-Ray Absorption Spectroscopic Study of Li[sub 1.05]Ni[sub 0.35]Co[sub 0.25]Mn[sub 0.4]O[sub 2] Cathode Material Coated with LiCoO[sub 2]. Journal of the Electrochemical Society, 2007, 154, A534.	2.9	42
88	Characterization of a Genuine Iron(V)â˜Nitrido Species by Nuclear Resonant Vibrational Spectroscopy Coupled to Density Functional Calculations. Journal of the American Chemical Society, 2007, 129, 11053-11060.	13.7	70
89	Observation of terahertz vibrations in Pyrococcus furiosus rubredoxin via impulsive coherent vibrational spectroscopy and nuclear resonance vibrational spectroscopy â€“ interpretation by molecular mechanics. Journal of Inorganic Biochemistry, 2007, 101, 375-384.	3.5	17
90	Dynamics of an [Fe4S4(SPh)4]2? cluster explored via IR, Raman, and nuclear resonance vibrational spectroscopy (NRVS)-analysis using 36S substitution, DFT calculations, and empirical force fields. Dalton Transactions, 2006, , 2192.	3.3	33

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91	How Nitrogenase Shakes â˜' Initial Information about Pâ˜'Cluster and FeMo-cofactor Normal Modes from Nuclear Resonance Vibrational Spectroscopy (NRVS). Journal of the American Chemical Society, 2006, 128, 7608-7612.	13.7	73
92	Resonant inelastic X-ray scattering (RIXS) spectroscopy at the Mn K absorption pre-edgeâ€"a direct probe of the 3d orbitals. Journal of Physics and Chemistry of Solids, 2005, 66, 2163-2167.	4.0	31
93	X-ray magnetic circular dichroismâ€"a high energy probe of magnetic properties. Coordination Chemistry Reviews, 2005, 249, 3-30.	18.8	132
94	X-ray absorption spectroscopy of biological photolysis products: kilohertz photolysis and soft X-ray applications. Journal of Electron Spectroscopy and Related Phenomena, 2005, 143, 1-7.	1.7	14
95	In situx-ray absorption spectroscopic study of the Li[Ni1â•3Co1â•3Mn1â•3]O2 cathode material. Journal of Applied Physics, 2005, 97, 113523.	2.5	92
96	Normal Mode Analysis ofPyrococcus furiosusRubredoxin via Nuclear Resonance Vibrational Spectroscopy (NRVS) and Resonance Raman Spectroscopy. Journal of the American Chemical Society, 2005, 127, 14596-14606.	13.7	71
97	High-Resolution X-ray Emission Spectroscopy of Molybdenum Compounds. Inorganic Chemistry, 2005, 44, 2579-2581.	4.0	22
98	Normal-Mode Analysis of FeCl4-and Fe2S2Cl42-via Vibrational MÃ¶ssbauer, Resonance Raman, and FT-IR Spectroscopies. Inorganic Chemistry, 2005, 44, 5562-5570.	4.0	75
99	Structural Investigations of LiFePO4Electrodes by Fe X-ray Absorption Spectroscopy. Journal of Physical Chemistry B, 2004, 108, 7046-7051.	2.6	56
100	Chemically Distinct Ni Sites in the A-Cluster in Subunit Î² of the Acetyl-CoA Decarbonylase/Synthase Complex fromMethanosarcinathermophila:Â Ni L-Edge Absorption and X-ray Magnetic Circular Dichroism Analyses. Journal of the American Chemical Society, 2004, 126, 88-95.	13.7	64
101	The Electronic Structure of Mn in Oxides, Coordination Complexes, and the Oxygen-Evolving Complex of Photosystem II Studied by Resonant Inelastic X-ray Scattering. Journal of the American Chemical Society, 2004, 126, 9946-9959.	13.7	177
102	A Monomeric Nickelâ˜'Dioxygen Adduct Derived from a Nickel(I) Complex and O2. Inorganic Chemistry, 2004, 43, 3324-3326.	4.0	95
103	X-ray Magnetic Circular Dichroism ofPseudomonasaeruginosaNickel(II) Azurin. Journal of the American Chemical Society, 2004, 126, 5859-5866.	13.7	13
104	Inner-Shell Excitation Spectroscopy of Fused-Ring Aromatic Molecules by Electron Energy Loss and X-ray Raman Techniques. Journal of Physical Chemistry A, 2003, 107, 8512-8520.	2.5	42
105	Characterization of Chromodulin by X-ray Absorption and Electron Paramagnetic Resonance Spectroscopies and Magnetic Susceptibility Measurements. Journal of the American Chemical Society, 2003, 125, 774-780.	13.7	80
106	The A-Cluster in Subunit Î² of the Acetyl-CoA Decarbonylase/Synthase Complex from Methanosarcina thermophila: Ni and Fe K-Edge XANES and EXAFS Analyses. Journal of the American Chemical Society, 2003, 125, 15343-15351.	13.7	44
107	Observation of Feâ˜'H/D Modes by Nuclear Resonant Vibrational Spectroscopy. Journal of the American Chemical Society, 2003, 125, 4016-4017.	13.7	43
108	A Stable Monomeric Nickel Borohydride. Inorganic Chemistry, 2003, 42, 7945-7950.	4.0	43

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109	Functional copper at the acetyl-CoA synthase active site. Proceedings of the National Academy of Sciences of the United States of America, 2003, 100, 3689-3694.	7.1	69
110	Requirements for x-ray magnetic circular dichroism on paramagnetic biological systems and model compounds. Review of Scientific Instruments, 2002, 73, 1649-1651.	1.3	11
111	Electronic Structure of Ni Complexes by X-ray Resonance Raman Spectroscopy (Resonant Inelastic) Tj ETQq1 1 0.784314 rgBT /Overlock	13.7	31
112	Site-Selective EXAFS in Mixed-Valence Compounds Using High-Resolution Fluorescence Detection:â€‰ A Study of Iron in Prussian Blue. Inorganic Chemistry, 2002, 41, 3121-3127.	4.0	95
113	Bulk-sensitive XAS characterization of light elements: from X-ray Raman scattering to X-ray Raman spectroscopy. Microchemical Journal, 2002, 71, 221-230.	4.5	141
114	Absence of Mn-Centered Oxidation in the S2â†' S3Transition:Â Implications for the Mechanism of Photosynthetic Water Oxidation. Journal of the American Chemical Society, 2001, 123, 7804-7820.	13.7	295
115	Mn K-Edge XANES and KÎ² XES Studies of Two Mnâ^'Oxo Binuclear Complexes:Â Investigation of Three Different Oxidation States Relevant to the Oxygen-Evolving Complex of Photosystem II. Journal of the American Chemical Society, 2001, 123, 7031-7039.	13.7	94
116	A Quantitative Description of the Ground-State Wave Function of CuAby X-ray Absorption Spectroscopy:Â Comparison to Plastocyanin and Relevance to Electron Transfer. Journal of the American Chemical Society, 2001, 123, 5757-5767.	13.7	153
117	Dioxygen Activation by a Nickel Thioether Complex:Â Characterization of a NiIII2(Î¼-O)2Core. Journal of the American Chemical Society, 2001, 123, 9194-9195.	13.7	84
118	High-resolution X-ray spectroscopy of rare events: a different look at local structure and chemistry. Journal of Synchrotron Radiation, 2001, 8, 199-203.	2.4	45
119	In situ anomalous small angle X-ray scattering and absorption on an operating rechargeable lithium ion battery cell. Electrochemistry Communications, 2001, 3, 136-141.	4.7	17
120	Structural Investigations of Li[sub 1.5+x]Na[sub 0.5]MnO[sub 2.85]I[sub 0.12] Electrodes by Mn X-Ray Absorption Near Edge Spectroscopy. Journal of the Electrochemical Society, 2000, 147, 395.	2.9	24
121	Electronic Structure of Chemically-Prepared LixMn2O4Determined by Mn X-ray Absorption and Emission Spectroscopies. Journal of Physical Chemistry B, 2000, 104, 9587-9596.	2.6	36
122	Iron L-Edge X-ray Absorption Spectroscopy of Myoglobin Complexes and Photolysis Products. Journal of the American Chemical Society, 1997, 119, 4921-4928.	13.7	65
123	Spin-polarized x-ray emission of3dtransition-metal ions: â€ƒA comparison viaKÎ±andKÎ²detection. Physical Review B, 1997, 56, 4553-4564.	3.2	89
124	Bioinorganic applications of X-ray multiplets â€" The impact of Theo Tholes's work. Journal of Electron Spectroscopy and Related Phenomena, 1997, 86, 175-183.	1.7	19
125	X-Ray magnetic circular dichroism at temperatures <1 K: demonstration with the blue copper site in plastocyanin. Inorganica Chimica Acta, 1996, 243, 229-232.	2.4	6
126	X-ray magnetic circular dichroism spectra and distortions at Fe2+ L2,3 edges. Journal of Electron Spectroscopy and Related Phenomena, 1996, 78, 337-340.	1.7	5

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127	Spin-polarized and site-selective X-ray absorption. Demonstration with Fe porphyrins and KÎ² detection. Chemical Physics Letters, 1995, 243, 469-473.	2.6	31
128	Site-Selective XANES and EXAFS: A Demonstration with Manganese Mixtures and Mixed-Valence Complexes. Journal of the American Chemical Society, 1995, 117, 5895-5896.	13.7	46
129	Refinement of a Model for the Nitrogenase Moï£¿Fe Cluster Using Single-Crystal Mo and Fe EXAFS. Angewandte Chemie International Edition in English, 1993, 32, 1592-1594.	4.4	14
130	Molecular Structure of Nitrogen in Coal from XANES Spectroscopy. Applied Spectroscopy, 1993, 47, 1268-1275.	2.2	75
131	Copper L-edge spectral studies: a direct experimental probe of the ground-state covalency in the blue copper site in plastocyanin. Journal of the American Chemical Society, 1993, 115, 2968-2969.	13.7	157
132	Nitrogen chemistry of kerogens and bitumens from x-ray absorption near-edge structure spectroscopy. Energy & Fuels, 1993, 7, 1128-1134.	5.1	47
133	Determination of the nitrogen chemical structures in petroleum asphaltenes using XANES spectroscopy. Journal of the American Chemical Society, 1993, 115, 252-258.	13.7	210
134	Verfeinerung eines Modells fÃ¼r den Nitrogenase-Mo-Fe-Cluster mit Einkristall-Mo- und -Fe-EXAFS. Angewandte Chemie, 1993, 105, 1661-1663.	2.0	9
135	L-Edge spectroscopy of molybdenum compounds and enzymes. Journal of the American Chemical Society, 1990, 112, 2541-2548.	13.7	68
136	Oriented x-ray absorption spectroscopy of membrane bound metalloproteins. Physica B: Condensed Matter, 1989, 158, 81-83.	2.7	13
137	Oxo-molybdenum(V) complexes with sulfide and hydrogensulfide ligands: models for the molybdenum(V) centers of xanthine oxidase and xanthine dehydrogenase. Inorganic Chemistry, 1989, 28, 8-10.	4.0	30
138	X-ray absorption spectroscopic evidence for a unique nickel site in Clostridium thermoaceticum carbon monoxide dehydrogenase. Inorganic Chemistry, 1987, 26, 2477-2479.	4.0	81
139	Reactions of molybdenum trisulfide, tungsten trisulfide, tungsten triselenide, and niobium triselenide with lithium. Metal cluster rearrangement revealed by EXAFS. Inorganic Chemistry, 1986, 25, 1461-1466.	4.0	32
140	Structure diversity of F430 from Methanobacterium thermoautotrophicum. A nickel x-ray absorption spectroscopic study. Journal of the American Chemical Society, 1986, 108, 3120-3121.	13.7	34
141	Effect of cyanide binding on the copper sites of cytochrome c oxidase: an x-ray absorption spectroscopic study. Journal of Inorganic Biochemistry, 1985, 23, 199-205.	3.5	11
142	X-ray absorption edge and EXAFS spectroscopic studies of molybdenum ions in aqueous solution. Journal of the American Chemical Society, 1983, 105, 799-802.	13.7	65
143	New fluorescence detection system for xâ€ray absorption spectroscopy. Review of Scientific Instruments, 1981, 52, 395-399.	1.3	42
144	Observation of 17O effects on MoV EPR spectra in sulfite oxidase; xanthine dehydrogenase, and MoO(SC6H5)4â¯. Biochemical and Biophysical Research Communications, 1979, 91, 434-439.	2.1	47

#	Article	IF	Citations
145	The molybdenum site of sulfite oxidase. Structural information from x-ray absorption spectroscopy. Journal of the American Chemical Society, 1979, 101, 2772-2774.	13.7	102
146	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
147	Studies of the ferric forms of cytochrome P-450 and chloroperoxidase by extended x-ray absotption fine structure. Characterization of the iron-nitrogen and iron-sulfur distances. Journal of the American Chemical Society, 1978, 100, 7282-7290.	13.7	140
148	The molybdenum site of nitrogenase. Preliminary structural evidence from x-ray absorption spectroscopy. Journal of the American Chemical Society, 1978, 100, 3398-3407.	13.7	227
149	The molybdenum site of nitrogenase. 2. A comparative study of molybdenum-iron proteins and the iron-molybdenum cofactor by x-ray absorption spectroscopy. Journal of the American Chemical Society, 1978, 100, 3814-3819.	13.7	207
150	A systematic x-ray absorption study of molybdenum complexes. The accuracy of structural information from extended x-ray absorption fine structure. Journal of the American Chemical Society, 1978, 100, 2748-2761.	13.7	138