

# Sunney Chan

## List of Publications by Year in descending order

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179  
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10,461  
citations

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38300

95  
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182  
all docs

182  
docs citations

182  
times ranked

5209  
citing authors

#	ARTICLE	IF	CITATIONS
1	Effect of sonication on the structure of lecithin bilayers. <i>Biochemistry</i> , 1972, 11, 4573-4581.	1.2	430
2	Alkane Oxidation: Methane Monooxygenases, Related Enzymes, and Their Biomimetics. <i>Chemical Reviews</i> , 2017, 117, 8574-8621.	23.0	347
3	Cytochrome c oxidase: understanding nature's design of a proton pump. <i>Biochemistry</i> , 1990, 29, 1-12.	1.2	257
4	Structures and Proton-Pumping Strategies of Mitochondrial Respiratory Enzymes. <i>Annual Review of Biophysics and Biomolecular Structure</i> , 2001, 30, 23-65.	18.3	231
5	More on the motional state of lipid bilayer membranes: interpretation of order parameters obtained from nuclear magnetic resonance experiments. <i>Biochemistry</i> , 1977, 16, 2657-2667.	1.2	228
6	Interaction and Association of Bases and Nucleosides in Aqueous Solutions. III. A Nuclear Magnetic Resonance Study of the Self-Association of Purine and 6-Methylpurine. <i>Journal of the American Chemical Society</i> , 1964, 86, 4182-4188.	6.6	207
7	The Particulate Methane Monooxygenase from <i>Methylococcus capsulatus</i> (Bath) Is a Novel Copper-containing Three-subunit Enzyme. <i>Journal of Biological Chemistry</i> , 1998, 273, 7957-7966.	1.6	199
8	Controlled Oxidation of Hydrocarbons by the Membrane-Bound Methane Monooxygenase: The Case for a Tricopper Cluster. <i>Accounts of Chemical Research</i> , 2008, 41, 969-979.	7.6	196
9	Trimethylene Oxide. I. Microwave Spectrum, Dipole Moment, and Double Minimum Vibration. <i>Journal of Chemical Physics</i> , 1960, 33, 1643-1655.	1.2	193
10	Trimethylene Oxide. III. Far-Infrared Spectrum and Double Minimum Vibration. <i>Journal of Chemical Physics</i> , 1966, 44, 1103-1111.	1.2	184
11	Trimethylene Oxide. II. Structure, Vibration-Rotation Interaction, and Origin of Potential Function for Ring-Puckering Motion. <i>Journal of Chemical Physics</i> , 1961, 34, 1319-1329.	1.2	176
12	Proton magnetic resonance studies of ribose dinucleoside monophosphates in aqueous solution. I. Nature of the base-stacking interaction in adenylyl(3'→5')adenosine. <i>Journal of the American Chemical Society</i> , 1969, 91, 168-183.	6.6	174
13	Interaction and Association of Bases and Nucleosides in Aqueous Solutions. II. Association of 6-Methylpurine and 5-Bromouridine and Treatment of Multiple Equilibria. <i>Journal of the American Chemical Society</i> , 1964, 86, 4176-4181.	6.6	170
14	Approximate Hartree-Fock Wavefunctions, One-Electron Properties, and Electronic Structure of the Water Molecule. <i>Journal of Chemical Physics</i> , 1968, 49, 2071-2080.	1.2	163
15	Efficient Oxidation of Methane to Methanol by Dioxygen Mediated by Tricopper Clusters. <i>Angewandte Chemie - International Edition</i> , 2013, 52, 3731-3735.	7.2	157
16	Toward Delineating the Structure and Function of the Particulate Methane Monooxygenase from Methanotrophic Bacteria. <i>Biochemistry</i> , 2004, 43, 4421-4430.	1.2	156
17	Regio- and Stereoselectivity of Particulate Methane Monooxygenase from <i>Methylococcus capsulatus</i> (Bath). <i>Journal of the American Chemical Society</i> , 1997, 119, 9949-9955.	6.6	153
18	An Experimental Assignment of the Proton Magnetic Resonance Spectrum of Purine. <i>Journal of the American Chemical Society</i> , 1964, 86, 696-700.	6.6	148

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19	Molecular motion in lipid bilayers. Nuclear magnetic resonance line width study. Journal of the American Chemical Society, 1973, 95, 7541-7553.	6.6	129
20	Redox Potentiometry Studies of Particulate Methane Monooxygenase: Support for a Trinuclear Copper Cluster Active Site. Angewandte Chemie - International Edition, 2007, 46, 1992-1994.	7.2	129
21	The nature of the copper ions in the membranes containing the particulate methane monooxygenase from <i>Methylococcus capsulatus</i> (Bath). Journal of Biological Chemistry, 1994, 269, 14995-5005.	1.6	128
22	Structure of cytochrome a <sub>3</sub> -Cu <sub>a</sub> 3 couple in cytochrome c oxidase as revealed by nitric oxide binding studies.. Proceedings of the National Academy of Sciences of the United States of America, 1979, 76, 3320-3324.	3.3	123
23	On the Interactions of Lipids and Proteins in the Red Blood Cell Membrane. Proceedings of the National Academy of Sciences of the United States of America, 1970, 65, 721-728.	3.3	122
24	Crystal Structures of a Piscine Betanodavirus: Mechanisms of Capsid Assembly and Viral Infection. PLoS Pathogens, 2015, 11, e1005203.	2.1	122
25	X-ray Absorption and EPR Studies on the Copper Ions Associated with the Particulate Methane Monooxygenase from <i>Methylococcus capsulatus</i> (Bath). Cu(I) Ions and Their Implications. Journal of the American Chemical Society, 1996, 118, 12766-12776.	6.6	120
26	Nuclear Relaxation Studies of Lecithin Bilayers. Nature, 1971, 231, 110-112.	13.7	117
27	The nature of Cu <sub>A</sub> in cytochrome c oxidase.. Journal of Biological Chemistry, 1982, 257, 12106-12113.	1.6	117
28	The formation and annealing of structural defects in lipid bilayer vesicles. Biochimica Et Biophysica Acta - Biomembranes, 1976, 443, 313-330.	1.4	112
29	Production of High-Quality Particulate Methane Monooxygenase in High Yields from <i>Methylococcus capsulatus</i> (Bath) with a Hollow-Fiber Membrane Bioreactor. Journal of Bacteriology, 2003, 185, 5915-5924.	1.0	112
30	Kinetic Role of Electrostatic Interactions in the Unfolding of Hyperthermophilic and Mesophilic Rubredoxins. Biochemistry, 1998, 37, 3369-3376.	1.2	111
31	NMR Studies of Membrane Structure and Dynamics. Annual Review of Physical Chemistry, 1978, 29, 307-335.	4.8	105
32	A Concerted Mechanism for Ethane Hydroxylation by the Particulate Methane Monooxygenase from <i>Methylococcus capsulatus</i> (Bath). Journal of the American Chemical Society, 1996, 118, 921-922.	6.6	103
33	Mechanism of cytochrome c oxidase-catalyzed dioxygen reduction at low temperatures. Evidence for two intermediates at the three-electron level and entropic promotion of the bond-breaking step. Journal of the American Chemical Society, 1985, 107, 7389-7399.	6.6	102
34	Nuclear magnetic relaxation behavior of lecithin multilayers. Journal of the American Chemical Society, 1974, 96, 1312-1319.	6.6	100
35	Quartic Oscillator as a Basis for Energy Level Calculations of Some Anharmonic Oscillators. Journal of Chemical Physics, 1964, 41, 2828-2835.	1.2	99
36	Simple Evaluation of the Paramagnetic Part of the Proton Magnetic Shielding Constant. Journal of Chemical Physics, 1962, 37, 1527-1533.	1.2	95

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37	Molecular mechanisms of band 3 inhibitors. 1. Transport site inhibitors. <i>Biochemistry</i> , 1986, 25, 7888-7894.	1.2	91
38	Electron transfer between cytochrome a and copper A in cytochrome c oxidase: a perturbed equilibrium study. <i>Biochemistry</i> , 1989, 28, 6975-6983.	1.2	89
39	Proton magnetic resonance studies of ribose dinucleoside monophosphates in aqueous solution. II. Nature of the base-stacking interaction in adenylyl-(3' .far. 5')-cytidine and cytidylyl-(3' .far.) Tj ETQq1 1 0.784314 r gBT /Overback 10 T	1.2	89
40	Facile O-atom insertion into CC and CH bonds by a trinuclear copper complex designed to harness a singlet oxene. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2007, 104, 14570-14575.	3.3	83
41	Proton magnetic resonance studies of the cation-binding properties of nonactin. II. Comparison of the sodium ion, potassium ion, and cesium ion complexes. <i>Journal of the American Chemical Society</i> , 1970, 92, 4440-4446.	6.6	81
42	Quadrupole Effects in Electron Paramagnetic Resonance Spectra of Polycrystalline Copper and Cobalt Complexes. <i>Journal of Chemical Physics</i> , 1969, 50, 3416-3431.	1.2	80
43	Nuclear magnetic resonance studies of the interaction of alamethicin with lecithin bilayers. <i>Biochemistry</i> , 1974, 13, 4942-4948.	1.2	80
44	Quantitative Proteomic Analysis of Metabolic Regulation by Copper Ions in <i>Methylococcus capsulatus</i> (Bath). <i>Journal of Biological Chemistry</i> , 2004, 279, 51554-51560.	1.6	80
45	Redox-linked proton translocation in cytochrome oxidase: the importance of gating electron flow. The effects of slip in a model transducer. <i>Biophysical Journal</i> , 1986, 50, 713-733.	0.2	79
46	Chloride binding to the anion transport binding sites of band 3. A <sup>35</sup> Cl NMR study.. <i>Journal of Biological Chemistry</i> , 1984, 259, 6472-6480.	1.6	76
47	X-ray absorption edge studies on oxidized and reduced cytochrome c oxidase.. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 1977, 74, 3821-3825.	3.3	73
48	Metalloprotein design using genetic code expansion. <i>Chemical Society Reviews</i> , 2014, 43, 6498-6510.	18.7	72
49	Proton magnetic resonance studies of the cation-binding properties of nonactin. I. K <sup>+</sup> -nonactin complex. <i>Biochemistry</i> , 1969, 8, 3921-3927.	1.2	71
50	Heterogeneous formulation of the tricopper complex for efficient catalytic conversion of methane into methanol at ambient temperature and pressure. <i>Energy and Environmental Science</i> , 2016, 9, 1361-1374.	15.6	70
51	Oscillators Perturbed by Gaussian Barriers. <i>Journal of Chemical Physics</i> , 1963, 39, 545-551.	1.2	69
52	State of molecular motion of cholesterol in lecithin bilayers. <i>Nature</i> , 1975, 256, 582-584.	18.7	69
53	Interaction of alamethicin with lecithin bilayers: a phosphorus-31 and deuterium NMR study. <i>Biochemistry</i> , 1985, 24, 7621-7627.	1.2	65
54	Effects of Wavelength and Temperature on Primary Processes in the Photolysis of Nitrogen Dioxide and a Spectroscopicâ€”Photochemical Determination of the Dissociation Energy. <i>Journal of Chemical Physics</i> , 1964, 40, 3655-3662.	1.2	63

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55	Alamethicin-mediated fusion of lecithin vesicles.. Proceedings of the National Academy of Sciences of the United States of America, 1975, 72, 2170-2174.	3.3	62
56	A Method for Photoinitiating Protein Folding in a Nondenaturing Environment. Journal of the American Chemical Society, 2000, 122, 11567-11568.	6.6	62
57	Molecular-Beam Magnetic-Resonance Studies of the Nitrogen Molecule. Physical Review, 1964, 136, A1224-A1228.	2.7	61
58	Effects of structural defects in sonicated phospholipid vesicles on fusion and ion permeability. Nature, 1975, 256, 584-586.	13.7	61
59	Electron Paramagnetic Resonance of Mn(II) Complexes in Acetonitrile. Journal of Chemical Physics, 1967, 47, 2121-2130.	1.2	59
60	Molecular motions in lipid bilayers. III. Lateral and transverse diffusion in bilayers. Journal of Chemical Physics, 1982, 76, 4241-4247.	1.2	59
61	Theoretical modeling of the hydroxylation of methane as mediated by the particulate methane monooxygenase. Journal of Inorganic Biochemistry, 2006, 100, 801-809.	1.5	59
62	Synthesis and Photolysis Properties of a Photolabile Linker Based on 3- <sup>3</sup> -Methoxybenzoic Acid. Journal of Organic Chemistry, 1996, 61, 1526-1529.	1.7	55
63	Anisotropic and restricted molecular motion in lecithin bilayers. Biochemical and Biophysical Research Communications, 1972, 46, 1488-1492.	1.0	53
64	The effect of surface curvature on the head-group structure and phase transition properties of phospholipid bilayer vesicles. Biochimica Et Biophysica Acta - Biomembranes, 1980, 599, 330-335.	1.4	53
65	A room temperature catalyst for toluene aliphatic C-H bond oxidation: Tripodal tridentate copper complex immobilized in mesoporous silica. Journal of Catalysis, 2015, 322, 139-151.	3.1	51
66	The phospholipid packing arrangement in small bilayer vesicles as revealed by proton magnetic resonance studies at 500 MHz. Biochimica Et Biophysica Acta - Biomembranes, 1982, 687, 219-225.	1.4	50
67	Measuring the refolding of $\alpha$ -sheets with different turn sequences on a nanosecond time scale. Proceedings of the National Academy of Sciences of the United States of America, 2004, 101, 7305-7310.	3.3	50
68	The Copper Clusters in the Particulate Methane Monooxygenase (pMMO) from <i>Methylococcus Capsulatus</i> (Bath). Journal of the Chinese Chemical Society, 2004, 51, 1081-1098.	0.8	50
69	A Carbon Electrode Functionalized by a Tricopper Cluster Complex: Overcoming Overpotential and Production of Hydrogen Peroxide in the Oxygen Reduction Reaction. Angewandte Chemie - International Edition, 2018, 57, 3612-3616.	7.2	50
70	On the nature of cysteine coordination to CuA in cytochrome c oxidase.. Journal of Biological Chemistry, 1988, 263, 8420-8429.	1.6	50
71	Preparation of a Water-Soluble $\alpha$ -Cage-Based on 3,5-Dimethoxybenzoic Acid. Journal of the American Chemical Society, 1998, 120, 10766-10767.	6.6	49
72	Development of the Tricopper Cluster as a Catalyst for the Efficient Conversion of Methane into MeOH. ChemCatChem, 2014, 6, 429-437.	1.8	48

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73	Statistical mechanics of lipid membranes. Protein correlation functions and lipid ordering. <i>Biophysical Journal</i> , 1984, 45, 863-871.	0.2	47
74	Probing the Hydrophobic Pocket of the Active Site in the Particulate Methane Monooxygenase (pMMO) from <i>Methylococcus capsulatus</i> (Bath) by Variable Stereoselective Alkane Hydroxylation and Olefin Epoxidation. <i>ChemBioChem</i> , 2008, 9, 1116-1123.	1.3	47
75	Efficient catalytic oxidation of hydrocarbons mediated by tricopper clusters under mild conditions. <i>Journal of Catalysis</i> , 2012, 293, 186-194.	3.1	46
76	Pair distribution functions of bacteriorhodopsin and rhodopsin in model bilayers. <i>Biophysical Journal</i> , 1983, 43, 167-174.	0.2	44
77	The Stereospecific Hydroxylation of [2,2- <sup>2</sup> H <sub>2</sub> ]Butane and Chiral Dideuteriobutanes by the Particulate Methane Monooxygenase from <i>Methylococcus capsulatus</i> (Bath). <i>Journal of Biological Chemistry</i> , 2003, 278, 40658-40669.	1.6	44
78	Fluorine Spin-Rotation Interaction and Magnetic Shielding in Fluorobenzene. <i>Journal of Chemical Physics</i> , 1967, 46, 1745-1758.	1.2	43
79	Uncompetitive Substrate Inhibition and Noncompetitive Inhibition by 5-n-Undecyl-6-hydroxy-4,7-dioxobenzothiazole (UHDBT) and 2-n-Nonyl-4-hydroxyquinoline-N-oxide (NQNO) is Observed for the Cytochrome bo <sub>3</sub> Complex: Implications for a Q(H <sub>2</sub> )-Loop Proton Translocation Mechanism. <i>Biochemistry</i> , 1997, 36, 894-902.	1.2	43
80	Kinetic steps for $\alpha$ -helix formation. , 1998, 33, 343-357.		42
81	Pulsed EPR Studies of Particulate Methane Monooxygenase from <i>Methylococcus Capsulatus</i> (Bath): Evidence for Histidine Ligation. <i>Journal of the American Chemical Society</i> , 1998, 120, 3247-3248.	6.6	42
82	Isolation, purification and characterization of hemerythrin from <i>Methylococcus capsulatus</i> (Bath). <i>Journal of Inorganic Biochemistry</i> , 2008, 102, 1607-1614.	1.5	42
83	Efficient Room-Temperature Oxidation of Hydrocarbons Mediated by Tricopper Cluster Complexes with Different Ligands. <i>Advanced Synthesis and Catalysis</i> , 2012, 354, 3275-3282.	2.1	42
84	Improved Mass Spectrometric Analysis of Membrane Proteins Based on Rapid and Versatile Sample Preparation on Nanodiamond Particles. <i>Analytical Chemistry</i> , 2013, 85, 6748-6755.	3.2	42
85	Molecular motions in lipid bilayers. I. Statistical mechanical model of acyl chain motion. <i>Journal of Chemical Physics</i> , 1982, 76, 4217-4227.	1.2	41
86	Purification and characterization of a cobalt-activated carboxypeptidase from the hyperthermophilic archaeon <i>Pyrococcus furiosus</i> . <i>Protein Science</i> , 1999, 8, 2474-2486.	3.1	41
87	Comparison of ubiquinol and cytochrome terminal oxidases. <i>FEBS Letters</i> , 1993, 327, 131-136.	1.3	40
88	Developing an efficient catalyst for controlled oxidation of small alkanes under ambient conditions. <i>Catalysis Science and Technology</i> , 2014, 4, 930-935.	2.1	40
89	The Proton Magnetic Resonance Spectra and Structures of Ethylenediaminetetraacetic Acid, Methyliminodiacetic Acid, and Nitrilotriacetic Acid Chelates of Molybdenum(VI). <i>Journal of the American Chemical Society</i> , 1964, 86, 377-379.	6.6	39
90	Direct observation of the transmembrane recruitment of band 3 transport sites by competitive inhibitors. A <sup>35</sup> Cl NMR study.. <i>Journal of Biological Chemistry</i> , 1984, 259, 6481-6491.	1.6	39

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91	Double Minimum Vibration in Trimethylene Oxide. <i>Journal of Chemical Physics</i> , 1960, 33, 295-296.	1.2	38
92	Evidence that anion transport by band 3 proceeds via a ping-pong mechanism involving a single transport site. A <sup>35</sup> Cl NMR study.. <i>Journal of Biological Chemistry</i> , 1985, 260, 9537-9544.	1.6	38
93	Hydrophobic mismatch in gramicidin A'/lecithin systems. <i>Biochemistry</i> , 1990, 29, 6215-6221.	1.2	37
94	Effects of turn residues in directing the formation of the $\beta$ -sheet and in the stability of the $\beta$ -sheet. <i>Protein Science</i> , 2001, 10, 1794-1800.	3.1	37
95	The Catalytic Copper Clusters of the Particulate Methane Monooxygenase from Methanotrophic Bacteria: Electron Paramagnetic Resonance Spectral Simulations. <i>Journal of the Chinese Chemical Society</i> , 2004, 51, 1229-1244.	0.8	37
96	Dioxygen Activation of a Trinuclear Cu <sup>I</sup> Cu <sup>I</sup> Cu <sup>I</sup> Cluster Capable of Mediating Facile Oxidation of Organic Substrates: Competition between O <sub>2</sub> Atom Transfer and Abortive Intercomplex Reduction. <i>Chemistry - A European Journal</i> , 2012, 18, 3955-3968.	1.7	37
97	Bacteriohemerythrin bolsters the activity of the particulate methane monooxygenase (pMMO) in <i>Methylococcus capsulatus</i> (Bath). <i>Journal of Inorganic Biochemistry</i> , 2012, 111, 10-17.	1.5	37
98	Nuclear <sup>15</sup> N Spin <sup>1</sup> Internal <sup>1</sup> Rotation Coupling. <i>Journal of Chemical Physics</i> , 1967, 46, 4533-4535.	1.2	36
99	Copper Centers in the Cryo-EM Structure of Particulate Methane Monooxygenase Reveal the Catalytic Machinery of Methane Oxidation. <i>Journal of the American Chemical Society</i> , 2021, 143, 9922-9932.	6.6	36
100	Oxidation of dibenzothiophene catalyzed by heme-containing enzymes encapsulated in sol-gel glass. <i>Applied Biochemistry and Biotechnology</i> , 1994, 47, 11-20.	1.4	35
101	Molecular motions in lipid bilayers. II. Magnetic resonance of multilamellar and vesicle systems. <i>Journal of Chemical Physics</i> , 1982, 76, 4228-4240.	1.2	33
102	Two <sup>1</sup> -dimensional deuterium NMR of lipid membranes. <i>Journal of Chemical Physics</i> , 1983, 78, 4341-4348.	1.2	33
103	Purine binding to dinucleotides: evidence for base stacking and insertion.. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 1966, 55, 720-727.	3.3	31
104	Calculation of One <sup>1</sup> -Electron Properties for the Formaldehyde Molecule with the LCAO MO SCF Function of Foster and Boys. <i>Journal of Chemical Physics</i> , 1966, 45, 2793-2798.	1.2	31
105	The nature of CuA in cytochrome c oxidase. <i>FEBS Letters</i> , 1989, 248, 210-211.	1.3	31
106	The Anomalous Deuterium Isotope Effect on the Chemical Shift of the Bridge Hydrogen in the Enol Tautomer of 2,4-Pentanedione. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 1970, 65, 816-822.	3.3	30
107	The effects of chain length on the secondary structure of oligoadenylates. <i>Biopolymers</i> , 1974, 13, 2571-2592.	1.2	30
108	The C-Terminal Aqueous-Exposed Domain of the 45 kDa Subunit of the Particulate Methane Monooxygenase in <i>Methylococcus capsulatus</i> (Bath) Is a Cu(I) Sponge. <i>Biochemistry</i> , 2007, 46, 13762-13774.	1.2	30

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109	Proton magnetic resonance studies of whole human erythrocyte membranes. <i>Biochemistry</i> , 1972, 11, 548-555.	1.2	29
110	A proton NMR study of the mechanism of the erythrocyte glucose transporter.. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 1986, 83, 3277-3281.	3.3	28
111	Phosphophoryn, an "acidic" biomineralization regulatory protein: Conformational folding in the presence of Cd(II). <i>Biopolymers</i> , 1994, 34, 1359-1375.	1.2	28
112	Proton magnetic resonance study of the binding of purine to polyuridylic acid. <i>Biopolymers</i> , 1968, 6, 983-991.	1.2	27
113	Crystal Structures of Vertebrate Dihydropyrimidinase and Complexes from <i>Tetraodon nigroviridis</i> with Lysine Carbamylation. <i>Journal of Biological Chemistry</i> , 2013, 288, 30645-30658.	1.6	27
114	The use of DSS as an internal standard in PMR studies of nucleic acid interactions. <i>Magnetic Resonance in Chemistry</i> , 1973, 5, 275-276.	0.7	26
115	Evolution of the Cytochrome c Oxidase Proton Pump. <i>Journal of Molecular Evolution</i> , 1998, 46, 508-520.	0.8	26
116	The role of a $\beta^2$ -bulge in the folding of the $\beta^2$ -hairpin structure in ubiquitin. <i>Protein Science</i> , 2001, 10, 2063-2074.	3.1	26
117	A PROTON MAGNETIC RESONANCE STUDY OF THE INTERACTION OF ADENOSINE WITH POLYURIDYLIC ACID: EVIDENCE FOR BOTH ADENINE-URACIL BASE-STACKING AND BASE-PAIRING. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 1968, 60, 1144-1151.	3.3	23
118	A proton magnetic resonance study of the interaction of adenylyl (3' ? 5') adenosine with polyuridylic acid. <i>Biopolymers</i> , 1971, 10, 159-174.	1.2	23
119	Understanding the cytochrome c oxidase proton pump: thermodynamics of redox linkage. <i>Biophysical Journal</i> , 1995, 68, 2543-2555.	0.2	23
120	Phosphophoryn, a biomineralization template protein: pH-dependent protein folding experiments. <i>Biopolymers</i> , 1994, 34, 507-527.	1.2	22
121	De novo prediction of polypeptide conformations using dihedral probability grid Monte Carlo methodology. <i>Protein Science</i> , 1995, 4, 1203-1216.	3.1	22
122	X-ray absorption edge studies on cyanide-bound cytochromecoxidase. <i>FEBS Letters</i> , 1977, 84, 287-290.	1.3	21
123	Determination of the Carbon Kinetic Isotope Effects on Propane Hydroxylation Mediated by the Methane Monooxygenases from <i>Methylococcus capsulatus</i> (Bath) by Using Stable Carbon Isotopic Analysis. <i>ChemBioChem</i> , 2002, 3, 760.	1.3	21
124	Protein Fold Determination from Sparse Distance Restraints: The Restrained Generic Protein Direct Monte Carlo Method. <i>Journal of Physical Chemistry B</i> , 1999, 103, 3001-3008.	1.2	20
125	A Carbon Electrode Functionalized by a Tricopper Cluster Complex: Overcoming Overpotential and Production of Hydrogen Peroxide in the Oxygen Reduction Reaction. <i>Angewandte Chemie</i> , 2018, 130, 3674-3678.	1.6	20
126	Polarized ATR-FTIR Spectroscopy of the Membrane-Embedded Domains of the Particulate Methane Monooxygenase. <i>Biochemistry</i> , 2004, 43, 13283-13292.	1.2	19



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127	Chemistry in confined space: a strategy for selective oxidation of hydrocarbons with high catalytic efficiencies and conversion yields under ambient conditions. <i>Catalysis Science and Technology</i> , 2016, 6, 7623-7630.	2.1	18
128	Tuning the Regio- and Stereoselectivity of C-H Activation in n-Octanes by Cytochrome P450 BM-3 with Fluorine Substituents: Evidence for Interactions Between a C-F Bond and Aromatic $\pi$ Systems. <i>Chemistry - A European Journal</i> , 2011, 17, 4774-4787.	1.7	17
129	The PmoB subunit of particulate methane monooxygenase (pMMO) in <i>Methylococcus capsulatus</i> (Bath): The Cu sponge and its function. <i>Journal of Inorganic Biochemistry</i> , 2019, 196, 110691.	1.5	17
130	Turnover of a Methane Oxidation Tricopper Cluster Catalyst: Implications for the Mechanism of the Particulate Methane Monooxygenase (pMMO). <i>ChemCatChem</i> , 2020, 12, 3088-3096.	1.8	17
131	Effects of Turn Stability on the Kinetics of Refolding of a Hairpin in a $\beta$ -sheet. <i>Journal of the American Chemical Society</i> , 2005, 127, 16945-16954.	6.6	16
132	Catalytic Oxidation of Light Alkanes Mediated at Room Temperature by a Tricopper Cluster Complex Immobilized in Mesoporous Silica Nanoparticles. <i>ACS Sustainable Chemistry and Engineering</i> , 2018, 6, 5431-5440.	3.2	16
133	Prediction of polyelectrolyte polypeptide structures using Monte Carlo conformational search methods with implicit solvation modeling. <i>Protein Science</i> , 1995, 4, 2019-2031.	3.1	15
134	The oversolubility of methane gas in nano-confined water in nanoporous silica materials. <i>Microporous and Mesoporous Materials</i> , 2020, 293, 109793.	2.2	15
135	Overexpression and Purification of the Particulate Methane Monooxygenase from <i>Methylococcus capsulatus</i> (Bath). <i>Methods in Enzymology</i> , 2011, 495, 177-193.	0.4	14
136	Inactivation of the particulate methane monooxygenase (pMMO) in <i>Methylococcus capsulatus</i> (Bath) by acetylene. <i>Biochimica Et Biophysica Acta - Proteins and Proteomics</i> , 2015, 1854, 1842-1852.	1.1	14
137	Chainlength dependence of the $^1\text{H}$ NMR relaxation rates in bilayer vesicles. <i>Chemistry and Physics of Lipids</i> , 1978, 21, 59-68.	1.5	13
138	Spectroscopic characterization of the oxo-transfer reaction from a bis( $^1/4$ -oxo)dicopper(III) complex to triphenylphosphine. <i>Dalton Transactions</i> , 2004, , 3261-3272.	1.6	13
139	Cooperative lengths and elastic constants in lipid bilayers: The chlorophylla/dimyristoyllecithin system. <i>Journal of Chemical Physics</i> , 1987, 86, 5789-5800.	1.2	12
140	Controlled oxidation of aliphatic CH bonds in metallo-monoxygenases: Mechanistic insights derived from studies on deuterated and fluorinated hydrocarbons. <i>Journal of Inorganic Biochemistry</i> , 2014, 134, 118-133.	1.5	12
141	The bacteriohemerythrin from <i>Methylococcus capsulatus</i> (Bath): Crystal structures reveal that Leu114 regulates a water tunnel. <i>Journal of Inorganic Biochemistry</i> , 2015, 150, 81-89.	1.5	12
142	Copper protein constructs for methane oxidation. <i>Nature Catalysis</i> , 2019, 2, 286-287.	16.1	12
143	The atomic structures of shrimp nodaviruses reveal new dimeric spike structures and particle polymorphism. <i>Communications Biology</i> , 2019, 2, 72.	2.0	12
144	The $^{14}\text{N}$ NMR linewidth versus pH profiles for several amino acids. <i>Magnetic Resonance in Chemistry</i> , 1975, 7, 605-609.	0.7	11

#	ARTICLE	IF	CITATIONS
145	Controlling the Orientation of Pendants in Two-Dimensional Comb-Like Polymers by Varying Stiffness of Polymeric Backbones. <i>Macromolecules</i> , 2014, 47, 6166-6172.	2.2	11
146	Structural insights into the electron/proton transfer pathways in the quinol:fumarate reductase from <i>Desulfovibrio gigas</i> . <i>Scientific Reports</i> , 2018, 8, 14935.	1.6	11
147	Selective oxidation of light alkanes under mild conditions. <i>Current Opinion in Green and Sustainable Chemistry</i> , 2020, 22, 39-46.	3.2	11
148	Preparation and characterization of a (Cu,Zn)-pMMO from <i>Methylococcus capsulatus</i> (Bath). <i>Journal of Inorganic Biochemistry</i> , 2004, 98, 2125-2130.	1.5	10
149	Cytochrome c Oxidase: Chemistry of a Molecular Machine. <i>Advances in Enzymology and Related Areas of Molecular Biology</i> , 2006, 71, 79-208.	1.3	10
150	Primary Process in the Photolysis of Nitrogen Dioxide at 4047 Å... and a Spectroscopic Determination of the Dissociation Energy. <i>Journal of Chemical Physics</i> , 1963, 39, 238-239.	1.2	8
151	Electron Spin Relaxation Studies of Manganese(II) Complexes in Acetonitrile. <i>Journal of Chemical Physics</i> , 1972, 57, 5216-5230.	1.2	8
152	The effect of Glu75 of staphylococcal nuclease on enzyme activity, protein stability and protein unfolding. <i>FEBS Journal</i> , 2001, 261, 599-609.	0.2	8
153	Proton pumping in cytochrome <i>c</i> oxidase: The coupling between proton and electron gating. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2010, 107, 8505-8506.	3.3	8
154	Quantum Chemical Studies of Methane Oxidation to Methanol on a Biomimetic Tricopper Complex: Mechanistic Insights. <i>ChemistrySelect</i> , 2018, 3, 5113-5122.	0.7	8
155	<sup>13</sup> C Nuclear Spin Relaxation in <sup>13</sup> CS <sub>2</sub> . <i>Journal of Chemical Physics</i> , 1971, 55, 4670-4672.	1.2	7
156	Effects of Lipid-mediated Interactions on Protein Pair Distribution Functions. <i>Biophysical Journal</i> , 1982, 37, 141-142.	0.2	7
157	Heterogeneity in an isolated membrane protein Has the "authentic cytochrome oxidase" been identified?. <i>FEBS Letters</i> , 1988, 236, 1-4.	1.3	7
158	Further comparison of ubiquinol and cytochrome c terminal oxidases. <i>FEBS Letters</i> , 1993, 335, 296-298.	1.3	7
159	ESEEM studies of succinate:ubiquinone reductase from <i>Paracoccus denitrificans</i> . <i>Journal of Biological Inorganic Chemistry</i> , 2000, 5, 593-602.	1.1	7
160	Mechanism of Pyrroloquinoline Quinone-Dependent Hydride Transfer Chemistry from Spectroscopic and High-Resolution X-ray Structural Studies of the Methanol Dehydrogenase from <i>Methylococcus capsulatus</i> (Bath). <i>Journal of the American Chemical Society</i> , 2021, 143, 3359-3372.	6.6	7
161	Catalytic machinery of methane oxidation in particulate methane monooxygenase (pMMO). <i>Journal of Inorganic Biochemistry</i> , 2021, 225, 111602.	1.5	7
162	Voltage-Gated Electrocatalysis of Efficient and Selective Methane Oxidation by Tricopper Clusters under Ambient Conditions. <i>Journal of the American Chemical Society</i> , 2022, 144, 9695-9706.	6.6	7

#	ARTICLE	IF	CITATIONS
163	The Biochemistry of Methane Monooxygenases. Microbiology Monographs, 2019, , 71-120.	0.3	6
164	Fluorine Spinâ€”Rotation Coupling and Spinâ€”Lattice Relaxation in Fluorobenzene. Journal of Chemical Physics, 1967, 47, 1191-1192.	1.2	5
165	A Physical Chemist's Expedition to Explore the World of Membrane Proteins. Annual Review of Biophysics, 2009, 38, 1-27.	4.5	5
166	Dicopper Dioxygenase Model Immobilized in Mesoporous Silica Nanoparticles for Toluene Oxidation: A Mechanism to Harness Both O Atoms of O <sub>2</sub> for Catalysis. Journal of Physical Chemistry C, 2019, 123, 11032-11043.	1.5	5
167	Crystallization of Adenylylsulfate Reductase from <i>Desulfovibrio gigas</i> : A Strategy Based on Controlled Protein Oligomerization. Crystal Growth and Design, 2011, 11, 2127-2134.	1.4	4
168	Methane oxidation by the copper methane monooxygenase: Before and after the cryogenic electron microscopy structure of particulate methane monooxygenase from <i>Methylococcus capsulatus</i> (Bath). Journal of the Chinese Chemical Society, 2022, 69, 1147-1158.	0.8	4
169	Models for the trinuclear copper(II) cluster in the particulate methane monooxygenase from methanotrophic bacteria: Synthesis, spectroscopic and theoretical characterization of trinuclear copper(II) complexes. Comptes Rendus Chimie, 2012, 15, 214-224.	0.2	3
170	Location of the crossâ€” structure in prion fibrils: A search by seeding and electron spin resonance spectroscopy. Protein Science, 2022, 31, .	3.1	3
171	New Challenges. , 2005, , 461-538.		2
172	A proposal for the site and mechanism of redox-linked proton translocation in cytochrome c oxidase. Progress in Clinical and Biological Research, 1988, 274, 731-47.	0.2	2
173	Electron Paramagnetic Resonance of Radiation Damage in a Lunar Rock. Nature: Physical Science, 1972, 237, 121-122.	0.8	1
174	Intramolecular Electron Transfer in COâ€”Bound Mixedâ€”Valence Cytochrome <i>c</i> Oxidase Following CO Photolysis. Journal of the Chinese Chemical Society, 1999, 46, 293-300.	0.8	1
175	Symposia lectures. Journal of Biosciences, 1999, 24, 5-31.	0.5	0
176	Contributions of a Surface Hydrophobic Cluster to the Folding and Structural Stability of Ubiquitin. Journal of the Chinese Chemical Society, 2008, 55, 772-781.	0.8	0
177	THE SECONDARY STRUCTURE OF HISTONE IV AND ITS STABILITY. International Journal of Peptide and Protein Research, 1977, 9, 148-156.	0.1	0
178	Heterologous Expression of Membraneâ€”Protein Subunits in E. coli: The Subunit B of the Particulate Methane Monooxygenase from <i>Methylococcus capsulatus</i> (Bath). FASEB Journal, 2008, 22, 323-323.	0.2	0
179	Regioâ€”and stereoâ€”selective oxidation of fluorinated substrates by recombinant cytochrome P450 BM3 variants. FASEB Journal, 2013, 27, 1007.5.	0.2	0