Sunney Chan

List of Publications by Year
in descending order

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179 papers	10,461 citations	23500 58 h-index	38300 95 g-index
182 all docs	182 docs citations	182 times ranked	5209 citing authors

#	Article	IF	Citations
1	Location of the crossâ€β structure in prion fibrils: A search by seeding and electron spin resonance spectroscopy. Protein Science, 2022, 31, .	3.1	3
2	Voltage-Gated Electrocatalysis of Efficient and Selective Methane Oxidation by Tricopper Clusters under Ambient Conditions. Journal of the American Chemical Society, 2022, 144, 9695-9706.	6.6	7
3	Methane oxidation by the copper methane monooxygenase: Before and after the cryogenic electron microscopy structure of particulate methane monooxygenase from Methylococcus capsulatus (Bath). Journal of the Chinese Chemical Society, 2022, 69, 1147-1158.	0.8	4
4	Mechanism of Pyrroloquinoline Quinone-Dependent Hydride Transfer Chemistry from Spectroscopic and High-Resolution X-ray Structural Studies of the Methanol Dehydrogenase from Methylococcus capsulatus (Bath). Journal of the American Chemical Society, 2021, 143, 3359-3372.	6.6	7
5	Copper Centers in the Cryo-EM Structure of Particulate Methane Monooxygenase Reveal the Catalytic Machinery of Methane Oxidation. Journal of the American Chemical Society, 2021, 143, 9922-9932.	6.6	36
6	Catalytic machinery of methane oxidation in particulate methane monooxygenase (pMMO). Journal of Inorganic Biochemistry, 2021, 225, 111602.	1.5	7
7	The oversolubility of methane gas in nano-confined water in nanoporous silica materials. Microporous and Mesoporous Materials, 2020, 293, 109793.	2.2	15
8	Selective oxidation of light alkanes under mild conditions. Current Opinion in Green and Sustainable Chemistry, 2020, 22, 39-46.	3.2	11
9	Turnover of a Methane Oxidation Tricopper Cluster Catalyst: Implications for the Mechanism of the Particulate Methane Monooxygenase (pMMO). ChemCatChem, 2020, 12, 3088-3096.	1.8	17
10	The PmoB subunit of particulate methane monooxygenase (pMMO) in Methylococcus capsulatus (Bath): The CuI sponge and its function. Journal of Inorganic Biochemistry, 2019, 196, 110691.	1.5	17
11	Dicopper Dioxygenase Model Immobilized in Mesoporous Silica Nanoparticles for Toluene Oxidation: A Mechanism to Harness Both O Atoms of O2 for Catalysis. Journal of Physical Chemistry C, 2019, 123, 11032-11043.	1.5	5
12	Copper protein constructs for methane oxidation. Nature Catalysis, 2019, 2, 286-287.	16.1	12
13	The atomic structures of shrimp nodaviruses reveal new dimeric spike structures and particle polymorphism. Communications Biology, 2019, 2, 72.	2.0	12
14	The Biochemistry of Methane Monooxygenases. Microbiology Monographs, 2019, , 71-120.	0.3	6
15	A Carbon Electrode Functionalized by a Tricopper Cluster Complex: Overcoming Overpotential and Production of Hydrogen Peroxide in the Oxygen Reduction Reaction. Angewandte Chemie, 2018, 130, 3674-3678.	1.6	20
16	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
17	Catalytic Oxidation of Light Alkanes Mediated at Room Temperature by a Tricopper Cluster Complex Immobilized in Mesoporous Silica Nanoparticles. ACS Sustainable Chemistry and Engineering, 2018, 6, 5431-5440.	3.2	16
18	Structural insights into the electron/proton transfer pathways in the quinol:fumarate reductase from Desulfovibrio gigas. Scientific Reports, 2018, 8, 14935.	1.6	11

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19	Quantum Chemical Studies of Methane Oxidation to Methanol on a Biomimetic Tricopper Complex: Mechanistic Insights. ChemistrySelect, 2018, 3, 5113-5122.	0.7	8
20	Alkane Oxidation: Methane Monooxygenases, Related Enzymes, and Their Biomimetics. Chemical Reviews, 2017, 117, 8574-8621.	23.0	347
21	Chemistry in confined space: a strategy for selective oxidation of hydrocarbons with high catalytic efficiencies and conversion yields under ambient conditions. Catalysis Science and Technology, 2016, 6, 7623-7630.	2.1	18
22	Heterogeneous formulation of the tricopper complex for efficient catalytic conversion of methane into methanol at ambient temperature and pressure. Energy and Environmental Science, 2016, 9, 1361-1374.	15.6	70
23	A room temperature catalyst for toluene aliphatic Câ€“H bond oxidation: Tripodal tridentate copper complex immobilized in mesoporous silica. Journal of Catalysis, 2015, 322, 139-151.	3.1	51
24	Inactivation of the particulate methane monooxygenase (pMMO) in Methylococcus capsulatus (Bath) by acetylene. Biochimica Et Biophysica Acta - Proteins and Proteomics, 2015, 1854, 1842-1852.	1.1	14
25	The bacteriohemerythrin from Methylococcus capsulatus (Bath): Crystal structures reveal that Leu114 regulates a water tunnel. Journal of Inorganic Biochemistry, 2015, 150, 81-89.	1.5	12
26	Crystal Structures of a Piscine Betanodavirus: Mechanisms of Capsid Assembly and Viral Infection. PLoS Pathogens, 2015, 11, e1005203.	2.1	122
27	Development of the Tricopper Cluster as a Catalyst for the Efficient Conversion of Methane into MeOH. ChemCatChem, 2014, 6, 429-437.	1.8	48
28	Developing an efficient catalyst for controlled oxidation of small alkanes under ambient conditions. Catalysis Science and Technology, 2014, 4, 930-935.	2.1	40
29	Controlled oxidation of aliphatic CH bonds in metallo-monooxygenases: Mechanistic insights derived from studies on deuterated and fluorinated hydrocarbons. Journal of Inorganic Biochemistry, 2014, 134, 118-133.	1.5	12
30	Metalloprotein design using genetic code expansion. Chemical Society Reviews, 2014, 43, 6498-6510.	18.7	72
31	Controlling the Orientation of Pendants in Two-Dimensional Comb-Like Polymers by Varying Stiffness of Polymeric Backbones. Macromolecules, 2014, 47, 6166-6172.	2.2	11
32	Efficient Oxidation of Methane to Methanol by Dioxygen Mediated by Tricopper Clusters. Angewandte Chemie - International Edition, 2013, 52, 3731-3735.	7.2	157
33	Improved Mass Spectrometric Analysis of Membrane Proteins Based on Rapid and Versatile Sample Preparation on Nanodiamond Particles. Analytical Chemistry, 2013, 85, 6748-6755.	3.2	42
34	Crystal Structures of Vertebrate Dihydropyrimidinase and Complexes from Tetraodon nigroviridis with Lysine Carbamylation. Journal of Biological Chemistry, 2013, 288, 30645-30658.	1.6	27
35	Regioâ€•and stereoâ€selective oxidation of fluorinated substrates by recombinant cytochrome P450 BM3 variants. FASEB Journal, 2013, 27, 1007.5.	0.2	0
36	Efficient Roomâ€Temperature Oxidation of Hydrocarbons Mediated by Tricopper Cluster Complexes with Different Ligands. Advanced Synthesis and Catalysis, 2012, 354, 3275-3282.	2.1	42

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37	Efficient catalytic oxidation of hydrocarbons mediated by tricopper clusters under mild conditions. Journal of Catalysis, 2012, 293, 186-194.	3.1	46
38	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
39	Dioxygen Activation of a Trinuclear Cu^ICu^ICu^I Cluster Capable of Mediating Facile Oxidation of Organic Substrates: Competition between Oâ€Atom Transfer and Abortive Intercomplex Reduction. Chemistry - A European Journal, 2012, 18, 3955-3968.	1.7	37
40	Bacteriohemerythrin bolsters the activity of the particulate methane monooxygenase (pMMO) in Methylococcus capsulatus (Bath). Journal of Inorganic Biochemistry, 2012, 111, 10-17.	1.5	37
41	Crystallization of Adenylylsulfate Reductase from Desulfovibrio gigas: A Strategy Based on Controlled Protein Oligomerization. Crystal Growth and Design, 2011, 11, 2127-2134.	1.4	4
42	Tuning the Regioâ€•and Stereoselectivity of Cï£¿H Activation in nâ€Octanes by Cytochrome P450 BMâ€3 with Fluorine Substituents: Evidence for Interactions Between a Cï£¿F Bond and Aromatic Ï€ Systems. Chemistry - A European Journal, 2011, 17, 4774-4787.	1.7	17
43	Overexpression and Purification of the Particulate Methane Monooxygenase from Methylococcus capsulatus (Bath). Methods in Enzymology, 2011, 495, 177-193.	0.4	14
44	Proton pumping in cytochrome c oxidase: The coupling between proton and electron gating. Proceedings of the National Academy of Sciences of the United States of America, 2010, 107, 8505-8506.	3.3	8
45	A Physical Chemist's Expedition to Explore the World of Membrane Proteins. Annual Review of Biophysics, 2009, 38, 1-27.	4.5	5
46	Probing the Hydrophobic Pocket of the Active Site in the Particulate Methane Monooxygenase (pMMO) from Methylococcus capsulatus (Bath) by Variable Stereoselective Alkane Hydroxylation and Olefin Epoxidation. ChemBioChem, 2008, 9, 1116-1123.	1.3	47
47	Isolation, purification and characterization of hemerythrin from Methylococcus capsulatus (Bath). Journal of Inorganic Biochemistry, 2008, 102, 1607-1614.	1.5	42
48	Controlled Oxidation of Hydrocarbons by the Membrane-Bound Methane Monooxygenase: The Case for a Tricopper Cluster. Accounts of Chemical Research, 2008, 41, 969-979.	7.6	196
49	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
50	Heterologous Expression of Membraneâ€Protein Subunits in E. coli: The Subunit B of the Particulate Methane Monooxygenase from Methylococcus capsulatus (Bath). FASEB Journal, 2008, 22, 323-323.	0.2	0
51	Facile O-atom insertion into CC and CH bonds by a trinuclear copper complex designed to harness a singlet oxene. Proceedings of the National Academy of Sciences of the United States of America, 2007, 104, 14570-14575.	3.3	83
52	The C-Terminal Aqueous-Exposed Domain of the 45 kDa Subunit of the Particulate Methane Monooxygenase in Methylococcus capsulatus (Bath) Is a Cu(I) Sponge. Biochemistry, 2007, 46, 13762-13774.	1.2	30
53	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
54	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

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55	CytochromecOxidase: Chemistry of a Molecular Machine. Advances in Enzymology and Related Areas of Molecular Biology, 2006, 71, 79-208.	1.3	10
56	New Challenges. , 2005, , 461-538.		2
57	Effects of Turn Stability on the Kinetics of Refolding of a Hairpin in a Î²-sheet. Journal of the American Chemical Society, 2005, 127, 16945-16954.	6.6	16
58	Quantitative Proteomic Analysis of Metabolic Regulation by Copper Ions in Methylococcus capsulatus (Bath). Journal of Biological Chemistry, 2004, 279, 51554-51560.	1.6	80
59	The Catalytic Copper Clusters of the Particulate Methane Monooxygenase from Methanotrophic Bacteria: Electron Paramagnetic Resonance Spectral Simulations. Journal of the Chinese Chemical Society, 2004, 51, 1229-1244.	0.8	37
60	Measuring the refolding of Â-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
61	Preparation and characterization of a (Cu,Zn)-pMMO from Methylococcus capsulatus (Bath). Journal of Inorganic Biochemistry, 2004, 98, 2125-2130.	1.5	10
62	Spectroscopic characterization of the oxo-transfer reaction from a bis(Î¼-oxo)dicopper(iii) complex to triphenylphosphine. Dalton Transactions, 2004, , 3261-3272.	1.6	13
63	Polarized ATR-FTIR Spectroscopy of the Membrane-Embedded Domains of the Particulate Methane Monooxygenaseâ€. Biochemistry, 2004, 43, 13283-13292.	1.2	19
64	Toward Delineating the Structure and Function of the Particulate Methane Monooxygenase from Methanotrophic Bacteria. Biochemistry, 2004, 43, 4421-4430.	1.2	156
65	The Copper Clusters in the Particulate Methane Monooxygenase (pMMO) from Methylococcus Capsulatus (Bath). Journal of the Chinese Chemical Society, 2004, 51, 1081-1098.	0.8	50
66	Production of High-Quality Particulate Methane Monooxygenase in High Yields from Methylococcus capsulatus (Bath) with a Hollow-Fiber Membrane Bioreactor. Journal of Bacteriology, 2003, 185, 5915-5924.	1.0	112
67	The Stereospecific Hydroxylation of [2,2-2H2]Butane and Chiral Dideuteriobutanes by the Particulate Methane Monooxygenase from Methylococcus capsulatus (Bath). Journal of Biological Chemistry, 2003, 278, 40658-40669.	1.6	44
68	Determination of the Carbon Kinetic Isotope Effects on Propane Hydroxylation Mediated by the Methane Monooxygenases from Methylococcus capsulatus (Bath) by Using Stable Carbon Isotopic Analysis. ChemBioChem, 2002, 3, 760.	1.3	21
69	Effects of turn residues in directing the formation of the Î²-sheet and in the stability of the Î²-sheet. Protein Science, 2001, 10, 1794-1800.	3.1	37
70	Structures and Proton-Pumping Strategies of Mitochondrial Respiratory Enzymes. Annual Review of Biophysics and Biomolecular Structure, 2001, 30, 23-65.	18.3	231
71	The role of a Î²-bulge in the folding of the Î²-hairpin structure in ubiquitin. Protein Science, 2001, 10, 2063-2074.	3.1	26
72	The effect of Glu75 of staphylococcal nuclease on enzyme activity, protein stability and protein unfolding. FEBS Journal, 2001, 261, 599-609.	0.2	8

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73	ESEEM studies of succinate:ubiquinone reductase from Paracoccus denitrificans. Journal of Biological Inorganic Chemistry, 2000, 5, 593-602.	1.1	7
74	A Method for Photoinitating Protein Folding in a Nondenaturing Environment. Journal of the American Chemical Society, 2000, 122, 11567-11568.	6.6	62
75	Symposia lectures. Journal of Biosciences, 1999, 24, 5-31.	0.5	0
76	Protein Fold Determination from Sparse Distance Restraints:Â The Restrained Generic Protein Direct Monte Carlo Method. Journal of Physical Chemistry B, 1999, 103, 3001-3008.	1.2	20
77	Intramolecular Electron Transfer in COâ€Bound Mixedâ€Valence Cytochrome c Oxidase Following CO Photolysis. Journal of the Chinese Chemical Society, 1999, 46, 293-300.	0.8	1
78	Purification and characterization of a cobaltâ€activated carboxypeptidase from the hyperthermophilic archaeon Pyrococcus furiosus. Protein Science, 1999, 8, 2474-2486.	3.1	41
79	Kinetic steps for Î±-helix formation. , 1998, 33, 343-357.		42
80	Evolution of the Cytochrome c Oxidase Proton Pump. Journal of Molecular Evolution, 1998, 46, 508-520.	0.8	26
81	Kinetic Role of Electrostatic Interactions in the Unfolding of Hyperthermophilic and Mesophilic Rubredoxinsâ€. Biochemistry, 1998, 37, 3369-3376.	1.2	111
82	Pulsed EPR Studies of Particulate Methane Monooxygenase fromMethylococcus Capsulatus(Bath):Â Evidence for Histidine Ligation. Journal of the American Chemical Society, 1998, 120, 3247-3248.	6.6	42
83	Preparation of a Water-Soluble â€œCageâ€•Based on 3â€˜,5â€˜-Dimethoxybenzoin. Journal of the American Chemical Society, 1998, 120, 10766-10767.	6.6	49
84	The Particulate Methane Monooxygenase from Methylococcus capsulatus (Bath) Is a Novel Copper-containing Three-subunit Enzyme. Journal of Biological Chemistry, 1998, 273, 7957-7966.	1.6	199
85	Regio- and Stereoselectivity of Particulate Methane Monooxygenase fromMethylococcus capsulatus(Bath). Journal of the American Chemical Society, 1997, 119, 9949-9955.	6.6	153
86	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 bo3 Complex:â€‰ Implications for a Q(H2)-Loop Proton Translocation Mechanism. Biochemistry, 1997, 36, 894-902.	1.2	43
87	A Concerted Mechanism for Ethane Hydroxylation by the Particulate Methane Monooxygenase from Methylococcus capsulatus (Bath). Journal of the American Chemical Society, 1996, 118, 921-922.	6.6	103
88	Synthesis and Photolysis Properties of a Photolabile Linker Based on 3â€˜-Methoxybenzoinâ€. Journal of Organic Chemistry, 1996, 61, 1526-1529.	1.7	55
89	X-ray Absorption and EPR Studies on the Copper Ions Associated with the Particulate Methane Monooxygenase fromMethylococcus capsulatus(Bath). Cu(I) Ions and Their Implications. Journal of the American Chemical Society, 1996, 118, 12766-12776.	6.6	120
90	De novo prediction of polypeptide conformations using dihedral probability grid Monte Carlo methodology. Protein Science, 1995, 4, 1203-1216.	3.1	22

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91	Prediction of polyelectrolyte polypeptide structures using Monte Carlo conformational search methods with implicit solvation modeling. Protein Science, 1995, 4, 2019-2031.	3.1	15
92	Understanding the cytochrome c oxidase proton pump: thermodynamics of redox linkage. Biophysical Journal, 1995, 68, 2543-2555.	0.2	23
93	Phosphophoryn, a biomineralization template protein: pH-dependent protein folding experiments. Biopolymers, 1994, 34, 507-527.	1.2	22
94	Phosphophoryn, an ?acidic? biomineralization regulatory protein: Conformational folding in the presence of Cd(II). Biopolymers, 1994, 34, 1359-1375.	1.2	28
95	Oxidation of dibenzothiophene catalyzed by heme-containing enzymes encapsulated in sol-gel glass. Applied Biochemistry and Biotechnology, 1994, 47, 11-20.	1.4	35
96	The nature of the copper ions in the membranes containing the particulate methane monooxygenase from Methylococcus capsulatus (Bath). Journal of Biological Chemistry, 1994, 269, 14995-5005.	1.6	128
97	Comparison of ubiquinol and cytochromecterminal oxidases. FEBS Letters, 1993, 327, 131-136.	1.3	40
98	Further comparison of ubiquinol and cytochromecterminal oxidases. FEBS Letters, 1993, 335, 296-298.	1.3	7
99	Hydrophobic mismatch in gramicidin A'/lecithin systems. Biochemistry, 1990, 29, 6215-6221.	1.2	37
100	Cytochrome c oxidase: understanding nature's design of a proton pump. Biochemistry, 1990, 29, 1-12.	1.2	257
101	Electron transfer between cytochrome a and copper A in cytochrome c oxidase: a perturbed equilibrium study. Biochemistry, 1989, 28, 6975-6983.	1.2	89
102	The nature of CuA in cytochrome c oxidase. FEBS Letters, 1989, 248, 210-211.	1.3	31
103	Heterogeneity in an isolated membrane protein Has the â€˜authentic cytochrome oxidaseâ€™ been identified?. FEBS Letters, 1988, 236, 1-4.	1.3	7
104	On the nature of cysteine coordination to CuA in cytochrome c oxidase.. Journal of Biological Chemistry, 1988, 263, 8420-8429.	1.6	50
105	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
106	Cooperative lengths and elastic constants in lipid bilayers: The chlorophylla/dimyristoyllecithin system. Journal of Chemical Physics, 1987, 86, 5789-5800.	1.2	12
107	Redox-linked proton translocation in cytochrome oxidase: the importance of gating electron flow. The effects of slip in a model transducer. Biophysical Journal, 1986, 50, 713-733.	0.2	79
108	Molecular mechanisms of band 3 inhibitors. 1. Transport site inhibitors. Biochemistry, 1986, 25, 7888-7894.	1.2	91

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109	A proton NMR study of the mechanism of the erythrocyte glucose transporter.. Proceedings of the National Academy of Sciences of the United States of America, 1986, 83, 3277-3281.	3.3	28
110	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
111	Interaction of alamethicin with lecithin bilayers: a phosphorus-31 and deuterium NMR study. Biochemistry, 1985, 24, 7621-7627.	1.2	65
112	Evidence that anion transport by band 3 proceeds via a ping-pong mechanism involving a single transport site. A 35 Cl NMR study.. Journal of Biological Chemistry, 1985, 260, 9537-9544.	1.6	38
113	Statistical mechanics of lipid membranes. Protein correlation functions and lipid ordering. Biophysical Journal, 1984, 45, 863-871.	0.2	47
114	Chloride binding to the anion transport binding sites of band 3. A 35Cl NMR study.. Journal of Biological Chemistry, 1984, 259, 6472-6480.	1.6	76
115	Direct observation of the transmembrane recruitment of band 3 transport sites by competitive inhibitors. A 35Cl NMR study.. Journal of Biological Chemistry, 1984, 259, 6481-6491.	1.6	39
116	Pair distribution functions of bacteriorhodopsin and rhodopsin in model bilayers. Biophysical Journal, 1983, 43, 167-174.	0.2	44
117	Twoâ€dimensional deuterium NMR of lipid membranes. Journal of Chemical Physics, 1983, 78, 4341-4348.	1.2	33
118	Molecular motions in lipid bilayers. II. Magnetic resonance of multilamellar and vesicle systems. Journal of Chemical Physics, 1982, 76, 4228-4240.	1.2	33
119	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
120	Effects of Lipid-mediated Interactions on Protein Pair Distribution Functions. Biophysical Journal, 1982, 37, 141-142.	0.2	7
121	Molecular motions in lipid bilayers. I. Statistical mechanical model of acyl chain motion. Journal of Chemical Physics, 1982, 76, 4217-4227.	1.2	41
122	Molecular motions in lipid bilayers. III. Lateral and transverse diffusion in bilayers. Journal of Chemical Physics, 1982, 76, 4241-4247.	1.2	59
123	The nature of CuA in cytochrome c oxidase.. Journal of Biological Chemistry, 1982, 257, 12106-12113.	1.6	117
124	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
125	Structure of cytochrome a3-Cua3 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
126	Chainlength dependence of the 1H NMR relaxation rates in bilayer vesicles. Chemistry and Physics of Lipids, 1978, 21, 59-68.	1.5	13

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127	NMR Studies of Membrane Structure and Dynamics. Annual Review of Physical Chemistry, 1978, 29, 307-335.	4.8	105
128	X-ray absorption edge studies on oxidized and reduced cytochrome c oxidase.. Proceedings of the National Academy of Sciences of the United States of America, 1977, 74, 3821-3825.	3.3	73
129	More on the motional state of lipid bilayer membranes: interpretation of order parameters obtained from nuclear magnetic resonance experiments. Biochemistry, 1977, 16, 2657-2667.	1.2	228
130	X-ray absorption edge studies on cyanide-bound cytochromecoxidase. FEBS Letters, 1977, 84, 287-290.	1.3	21
131	THE SECONDARY STRUCTURE OF HISTONE IV AND ITS STABILITY. International Journal of Peptide and Protein Research, 1977, 9, 148-156.	0.1	0
132	The formation and annealing of structural defects in lipid bilayer vesicles. Biochimica Et Biophysica Acta - Biomembranes, 1976, 443, 313-330.	1.4	112
133	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
134	The14N NMR linewidth versus pH profiles for several amino acids. Magnetic Resonance in Chemistry, 1975, 7, 605-609.	0.7	11
135	State of molecular motion of cholesterol in lecithin bilayers. Nature, 1975, 256, 582-584.	13.7	69
136	Effects of structural defects in sonicated phospholipid vesicles on fusion and ion permeability. Nature, 1975, 256, 584-586.	13.7	61
137	The effects of chain length on the secondary structure of oligoadenylates. Biopolymers, 1974, 13, 2571-2592.	1.2	30
138	Nuclear magnetic resonance studies of the interaction of alamethicin with lecithin bilayers. Biochemistry, 1974, 13, 4942-4948.	1.2	80
139	Nuclear magnetic relaxation behavior of lecithin multilayers. Journal of the American Chemical Society, 1974, 96, 1312-1319.	6.6	100
140	The use of DSS as an internal standard in PMR studies of nucleic acid interactions. Magnetic Resonance in Chemistry, 1973, 5, 275-276.	0.7	26
141	Molecular motion in lipid bilayers. Nuclear magnetic resonance line width study. Journal of the American Chemical Society, 1973, 95, 7541-7553.	6.6	129
142	Electron Spin Relaxation Studies of Manganese(II) Complexes in Acetonitrile. Journal of Chemical Physics, 1972, 57, 5216-5230.	1.2	8
143	Electron Paramagnetic Resonance of Radiation Damage in a Lunar Rock. Nature: Physical Science, 1972, 237, 121-122.	0.8	1
144	Proton magnetic resonance studies of whole human erythrocyte membranes. Biochemistry, 1972, 11, 548-555.	1.2	29

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145	Anisotropic and restricted molecular motion in lecithin bilayers. Biochemical and Biophysical Research Communications, 1972, 46, 1488-1492.	1.0	53
146	Effect of sonication on the structure of lecithin bilayers. Biochemistry, 1972, 11, 4573-4581.	1.2	430
147	Nuclear Relaxation Studies of Lecithin Bilayers. Nature, 1971, 231, 110-112.	13.7	117
148	A proton magnetic resonance study of the interaction of adenylyl (3? ? 5?) adenosine with polyuridylic acid. Biopolymers, 1971, 10, 159-174.	1.2	23
149	13C Nuclear Spin Relaxation in13CS2. Journal of Chemical Physics, 1971, 55, 4670-4672.	1.2	7
150	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
151	The Anomalous Deuterium Isotope Effect on the Chemical Shift of the Bridge Hydrogen in the Enol Tautomer of 2,4-Pentanedione. Proceedings of the National Academy of Sciences of the United States of America, 1970, 65, 816-822.	3.3	30
152	Proton magnetic resonance studies of the cation-binding properties of nonactin. II. Comparison of the sodium ion, potassium ion, and cesium ion complexes. Journal of the American Chemical Society, 1970, 92, 4440-4446.	6.6	81
153	Quadrupole Effects in Electron Paramagnetic Resonance Spectra of Polycrystalline Copper and Cobalt Complexes. Journal of Chemical Physics, 1969, 50, 3416-3431.	1.2	80
154	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 ETQq0 0 0 rgBT /Overlock 10 Tf 50 377 T	6.6	85
155	Proton magnetic resonance studies of ribose dinucleoside monophosphates in aqueous solution. I. Nature of the base-stacking interaction in adenylyl(3'->5')adenosine. Journal of the American Chemical Society, 1969, 91, 168-183.	6.6	174
156	Proton magnetic resonance studies of the cation-binding properties of nonactin. I. K+-nonactin complex. Biochemistry, 1969, 8, 3921-3927.	1.2	71
157	Proton magnetic resonance study of the binding of purine to polyuridylic acid. Biopolymers, 1968, 6, 983-991.	1.2	27
158	A PROTON MAGNETIC RESONANCE STUDY OF THE INTERACTION OF ADENOSINE WITH POLYURIDYLIC ACID: EVIDENCE FOR BOTH ADENINE-URACIL BASE-STACKING AND BASE-PAIRING. Proceedings of the National Academy of Sciences of the United States of America, 1968, 60, 1144-1151.	3.3	23
159	Approximate Hartreeâ€“Fock Wavefunctions, Oneâ€Electron Properties, and Electronic Structure of the Water Molecule. Journal of Chemical Physics, 1968, 49, 2071-2080.	1.2	163
160	Fluorine Spinâ€”Rotation Interaction and Magnetic Shielding in Fluorobenzene. Journal of Chemical Physics, 1967, 46, 1745-1758.	1.2	43
161	Electron Paramagnetic Resonance of Mn(II) Complexes in Acetonitrile. Journal of Chemical Physics, 1967, 47, 2121-2130.	1.2	59
162	Fluorine Spinâ€”Rotation Coupling and Spinâ€”Lattice Relaxation in Fluorobenzene. Journal of Chemical Physics, 1967, 47, 1191-1192.	1.2	5

#	Article	IF	Citations
163	Nuclearâ€Spinâ€”Internalâ€Rotation Coupling. Journal of Chemical Physics, 1967, 46, 4533-4535.	1.2	36
164	Purine binding to dinucleotides: evidence for base stacking and insertion.. Proceedings of the National Academy of Sciences of the United States of America, 1966, 55, 720-727.	3.3	31
165	Calculation of Oneâ€Electron Properties for the Formaldehyde Molecule with the LCAO MO SCF Function of Foster and Boys. Journal of Chemical Physics, 1966, 45, 2793-2798.	1.2	31
166	Trimethylene Oxide. III. Farâ€Infrared Spectrum and Doubleâ€Minimum Vibration. Journal of Chemical Physics, 1966, 44, 1103-1111.	1.2	184
167	Quartic Oscillator as a Basis for Energy Level Calculations of Some Anharmonic Oscillators. Journal of Chemical Physics, 1964, 41, 2828-2835.	1.2	99
168	Molecular-Beam Magnetic-Resonance Studies of the Nitrogen Molecule. Physical Review, 1964, 136, A1224-A1228.	2.7	61
169	Interaction and Association of Bases and Nucleosides in Aqueous Solutions. III. A Nuclear Magnetic Resonance Study of the Self-Association of Purine and 6-Methylpurine1b. Journal of the American Chemical Society, 1964, 86, 4182-4188.	6.6	207
170	Effects of Wavelength and Temperature on Primary Processes in the Photolysis of Nitrogen Dioxide and a Spectroscopicâ€Photochemical Determination of the Dissociation Energy. Journal of Chemical Physics, 1964, 40, 3655-3662.	1.2	63
171	The Proton Magnetic Resonance Spectra and Structures of Ethylenediaminetetraacetic Acid, Methyliminodiacetic Acid, and Nitrilotriacetic Acid Chelates of Molybdenum(VI). Journal of the American Chemical Society, 1964, 86, 377-379.	6.6	39
172	Interaction and Association of Bases and Nucleosides in Aqueous Solutions. II. Association of 6-Methylpurine and 5-Bromouridine and Treatment of Multiple Equilibria2. Journal of the American Chemical Society, 1964, 86, 4176-4181.	6.6	170
173	An Experimental Assignment of the Proton Magnetic Resonance Spectrum of Purine. Journal of the American Chemical Society, 1964, 86, 696-700.	6.6	148
174	Primary Process in the Photolysis of Nitrogen Dioxide at 4047 Ã... and a Spectroscopicâ€Photochemical Determination of the Dissociation Energy. Journal of Chemical Physics, 1963, 39, 238-239.	1.2	8
175	Oscillators Perturbed by Gaussian Barriers. Journal of Chemical Physics, 1963, 39, 545-551.	1.2	69
176	Simple Evaluation of the Paramagnetic Part of the Proton Magnetic Shielding Constant. Journal of Chemical Physics, 1962, 37, 1527-1533.	1.2	95
177	Trimethylene Oxide. II. Structure, Vibrationâ€Rotation Interaction, and Origin of Potential Function for Ringâ€Puckering Motion. Journal of Chemical Physics, 1961, 34, 1319-1329.	1.2	176
178	Double Minimum Vibration in Trimethylene Oxide. Journal of Chemical Physics, 1960, 33, 295-296.	1.2	38
179	Trimethylene Oxide. I. Microwave Spectrum, Dipole Moment, and Double Minimum Vibration. Journal of Chemical Physics, 1960, 33, 1643-1655.	1.2	193