Stephen G Sligar

List of Publications by Year
in descending order

277 papers	25,224 citations	5876 81 h-index	8370 147 g-index
282 all docs	282 docs citations	282 times ranked	15568 citing authors

#	Article	IF	Citations
1	Structure and Chemistry of Cytochrome P450. Chemical Reviews, 2005, 105, 2253-2278.	23.0	1,771
2	The Catalytic Pathway of Cytochrome P450cam at Atomic Resolution. Science, 2000, 287, 1615-1622.	6.0	1,298
3	Measuring mechanical tension across vinculin reveals regulation of focal adhesion dynamics. Nature, 2010, 466, 263-266.	13.7	1,274
4	Mechanisms of Ligand Recognition in Myoglobin. Chemical Reviews, 1994, 94, 699-714.	23.0	766
5	Self-Assembly of Discoidal Phospholipid Bilayer Nanoparticles with Membrane Scaffold Proteins. Nano Letters, 2002, 2, 853-856.	4.5	669
6	Membrane protein assembly into Nanodiscs. FEBS Letters, 2010, 584, 1721-1727.	1.3	635
7	Coupling of spin, substrate, and redox equilibriums in cytochrome P450. Biochemistry, 1976, 15, 5399-5406.	1.2	445
8	Hydroxylation of Camphor by Reduced Oxy-Cytochrome P450cam:Â Mechanistic Implications of EPR and ENDOR Studies of Catalytic Intermediates in Native and Mutant Enzymes. Journal of the American Chemical Society, 2001, 123, 1403-1415.	6.6	442
9	Applications of Phospholipid Bilayer Nanodiscs in the Study of Membranes and Membrane Proteins. Biochemistry, 2007, 46, 2059-2069.	1.2	399
10	Nanodiscs in Membrane Biochemistry and Biophysics. Chemical Reviews, 2017, 117, 4669-4713.	23.0	396
11	Nanodiscs for structural and functional studies of membrane proteins. Nature Structural and Molecular Biology, 2016, 23, 481-486.	3.6	378
12	Transducin Activation by Nanoscale Lipid Bilayers Containing One and Two Rhodopsins*. Journal of Biological Chemistry, 2007, 282, 14875-14881.	1.6	314
13	Sizing DNA Using a Nanometer-Diameter Pore. Biophysical Journal, 2004, 87, 2905-2911.	0.2	285
14	A conserved residue of cytochrome P-450 is involved in heme-oxygen stability and activation. Journal of the American Chemical Society, 1989, 111, 9252-9253.	6.6	272
15	The role of the distal histidine in myoglobin and haemoglobin. Nature, 1988, 336, 265-266.	13.7	264
16	Understanding the Role of the Essential Asp251 in Cytochrome P450cam Using Site-Directed Mutagenesis, Crystallography, and Kinetic Solvent Isotope Effect. Biochemistry, 1998, 37, 9211-9219.	1.2	243
17	Molecular recognition in cytochrome P-450: Mechanism for the control of uncoupling reactions. Biochemistry, 1993, 32, 11530-11538.	1.2	239
18	Crystal structure of the cytochrome P-450CAM active site mutant Thr252Ala. Biochemistry, 1991, 30, 11420-11429.	1.2	232

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19	Recreation of the terminal events in physiological integrin activation. Journal of Cell Biology, 2010, 188, 157-173.	2.3	228
20	Self-assembly of single integral membrane proteins into soluble nanoscale phospholipid bilayers. Protein Science, 2009, 12, 2476-2481.	3.1	227
21	Kinetic Characterization of Compound I Formation in the Thermostable Cytochrome P450 CYP119. Journal of Biological Chemistry, 2002, 277, 9641-9644.	1.6	206
22	Functional reconstitution of Î²₂-adrenergic receptors utilizing self-assembling Nanodisc technology. BioTechniques, 2006, 40, 601-612.	0.8	190
23	Origin of the anomalous Soret spectra of carboxycytochrome P-450. Journal of the American Chemical Society, 1976, 98, 2672-2674.	6.6	187
24	Cooperativity in Cytochrome P450 3A4. Journal of Biological Chemistry, 2007, 282, 7066-7076.	1.6	186
25	Control of heme protein redox potential and reduction rate: linear free energy relation between potential and ferric spin state equilibrium. Journal of the American Chemical Society, 1985, 107, 5018-5019.	6.6	185
26	Nanodiscs separate chemoreceptor oligomeric states and reveal their signaling properties. Proceedings of the National Academy of Sciences of the United States of America, 2006, 103, 11509-11514.	3.3	181
27	Single-molecule height measurements on microsomal cytochrome P450 in nanometer-scale phospholipid bilayer disks. Proceedings of the National Academy of Sciences of the United States of America, 2002, 99, 6725-6730.	3.3	179
28	Biomimetic Chemical Sensors Using Nanoelectronic Readout of Olfactory Receptor Proteins. ACS Nano, 2011, 5, 5408-5416.	7.3	173
29	Homotropic cooperativity of monomeric cytochrome P450 3A4 in a nanoscale native bilayer environment. Archives of Biochemistry and Biophysics, 2004, 430, 218-228.	1.4	171
30	Monomeric Rhodopsin Is Sufficient for Normal Rhodopsin Kinase (GRK1) Phosphorylation and Arrestin-1 Binding. Journal of Biological Chemistry, 2011, 286, 1420-1428.	1.6	166
31	Catalytic mechanism of cytochrome P-450: evidence for a distal charge relay. Journal of the American Chemical Society, 1992, 114, 8742-8743.	6.6	164
32	Assembly of single bacteriorhodopsin trimers in bilayer nanodiscs. Archives of Biochemistry and Biophysics, 2006, 450, 215-222.	1.4	156
33	Regioselectivity in the cytochromes P-450: Control by protein constraints and by chemical reactivities. Archives of Biochemistry and Biophysics, 1984, 228, 493-502.	1.4	153
34	Reconstitution and Imaging of a Membrane Protein in a Nanometer-Size Phospholipid Bilayer. Journal of Structural Biology, 1998, 123, 37-44.	1.3	153
35	Thermotropic Phase Transition in Soluble Nanoscale Lipid Bilayers. Journal of Physical Chemistry B, 2005, 109, 15580-15588.	1.2	153
36	Epoxidation of Olefins by Hydroperoxoâ^'Ferric Cytochrome P450. Journal of the American Chemical Society, 2003, 125, 3406-3407.	6.6	149

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37	Direct solubilization of heterologously expressed membrane proteins by incorporation into nanoscale lipid bilayers. BioTechniques, 2003, 35, 556-563.	0.8	147
38	Characterizing the Membrane-Bound State of Cytochrome P450 3A4: Structure, Depth of Insertion, and Orientation. Journal of the American Chemical Society, 2013, 135, 8542-8551.	6.6	143
39	Cytochrome P450 Compound I. Journal of the American Chemical Society, 2006, 128, 4580-4581.	6.6	140
40	EPR and ENDOR of Catalytic Intermediates in Cryoreduced Native and Mutant Oxy-Cytochromes P450cam:Â Mutation-Induced Changes in the Proton Delivery System. Journal of the American Chemical Society, 1999, 121, 10654-10655.	6.6	139
41	Nanodiscs unravel the interaction between the SecYEG channel and its cytosolic partner SecA. EMBO Journal, 2007, 26, 1995-2004.	3.5	137
42	Engineering extended membrane scaffold proteins for self-assembly of soluble nanoscale lipid bilayers. Protein Engineering, Design and Selection, 2010, 23, 843-848.	1.0	133
43	The Local Phospholipid Environment Modulates the Activation of Blood Clotting. Journal of Biological Chemistry, 2007, 282, 6556-6563.	1.6	132
44	Nanodiscs as a New Tool to Examine Lipidâ€“Protein Interactions. Methods in Molecular Biology, 2013, 974, 415-433.	0.4	129
45	Spectroscopic features of cytochrome P450 reaction intermediates. Archives of Biochemistry and Biophysics, 2011, 507, 26-35.	1.4	127
46	Photoelectrochemical complexes for solar energy conversion that chemically and autonomously regenerate. Nature Chemistry, 2010, 2, 929-936.	6.6	126
47	Metabolic switching in cyctochrome P-450cam: deuterium isotope effects on regiospecificity and the monooxygenase/oxidase ratio. Journal of the American Chemical Society, 1987, 109, 3754-3760.	6.6	123
48	Phospholipid phase transitions in homogeneous nanometer scale bilayer discs. FEBS Letters, 2004, 556, 260-264.	1.3	123
49	Solution structure of apocytochrome b562. Nature Structural and Molecular Biology, 1994, 1, 30-35.	3.6	119
50	Elliptical Structure of Phospholipid Bilayer Nanodiscs Encapsulated by Scaffold Proteins: Casting the Roles of the Lipids and the Protein. Journal of the American Chemical Society, 2010, 132, 13713-13722.	6.6	117
51	Thermophilic cytochrome P450 (CYP119) from Sulfolobus solfataricus: high resolution structure and functional properties. Journal of Inorganic Biochemistry, 2002, 91, 491-501.	1.5	116
52	Screening of Type I and II Drug Binding to Human Cytochrome P450-3A4 in Nanodiscs by Localized Surface Plasmon Resonance Spectroscopy. Analytical Chemistry, 2009, 81, 3754-3759.	3.2	116
53	Molecular Dynamics Simulations of Discoidal Bilayers Assembled from Truncated Human Lipoproteins. Biophysical Journal, 2005, 88, 548-556.	0.2	115
54	Resonance Surface Plasmon Spectroscopy:Â Low Molecular Weight Substrate Binding to Cytochrome P450. Journal of the American Chemical Society, 2006, 128, 11004-11005.	6.6	115

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55	Crystal structure of myoglobin form a synthetic gene. Proteins: Structure, Function and Bioinformatics, 1990, 7, 358-365.	1.5	113
56	Cysteine-specific surface tethering of genetically engineered cytochromes for fabrication of metalloprotein nanostructures. Langmuir, 1994, 10, 153-158.	1.6	113
57	The status of high-valent metal oxo complexes in the P450 cytochromes. Journal of Inorganic Biochemistry, 2006, 100, 507-518.	1.5	113
58	Probing the Heme Iron Coordination Structure of Pressure-Induced Cytochrome P420camâ€. Biochemistry, 1996, 35, 14530-14536.	1.2	111
59	Redox Potential Control by Drug Binding to Cytochrome P450 3A4. Journal of the American Chemical Society, 2007, 129, 13778-13779.	6.6	110
60	Molecular recognition in cytochrome P-450: alteration of regioselective alkane hydroxylation via protein engineering. Journal of the American Chemical Society, 1989, 111, 2715-2717.	6.6	109
61	Connection between the Taxonomic Substates and Protonation of Histidines 64 and 97 in Carbonmonoxy Myoglobin. Biophysical Journal, 1999, 77, 1036-1051.	0.2	106
62	Molecular Recognition Mediated by Bound Water. Journal of Molecular Biology, 1993, 234, 302-306.	2.0	101
63	Cryotrapped Reaction Intermediates of Cytochrome P450 Studied by Radiolytic Reduction with Phosphorus-32. Journal of Biological Chemistry, 2001, 276, 11648-11652.	1.6	101
64	Magic-Angle Spinning Solid-State NMR Spectroscopy of Nanodisc-Embedded Human CYP3A4. Biochemistry, 2007, 46, 13696-13703.	1.2	100
65	Kinetic Solvent Isotope Effects during Oxygen Activation by Cytochrome P-450cam. Journal of the American Chemical Society, 1994, 116, 1143-1144.	6.6	99
66	Characterization of a Cytochrome P450 from the Acidothermophilic ArchaeaSulfolobus solfataricus. Biochemical and Biophysical Research Communications, 1998, 252, 166-172.	1.0	99
67	Cooperative properties of cytochromes P450. , 2009, 124, 151-167.		97
68	Native Mass Spectrometry Characterization of Intact Nanodisc Lipoprotein Complexes. Analytical Chemistry, 2012, 84, 8957-8960.	3.2	95
69	[18] Hydrostatic and osmotic pressure as tools to study macromolecular recognition. Methods in Enzymology, 1995, 259, 395-427.	0.4	93
70	Surface electrostatics, reduction potentials, and the internal dielectric constant of proteins. Journal of the American Chemical Society, 1991, 113, 9419-9421.	6.6	92
71	Resonance Raman Characterization of the Peroxo and Hydroperoxo Intermediates in Cytochrome P450. Journal of Physical Chemistry A, 2008, 112, 13172-13179.	1.1	92
72	Tyrosine Radical Formation in the Reaction of Wild Type and Mutant Cytochrome P450cam with Peroxy Acids. Journal of Biological Chemistry, 2004, 279, 10919-10930.	1.6	90

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73	Deuterium isotope effects in norcamphor metabolism by cytochrome P-450cam: kinetic evidence for the two-electron reduction of a high-valent iron-oxo intermediate. Biochemistry, 1988, 27, 1610-1616.	1.2	89
74	Disassembly of Nanodiscs with Cholate. Nano Letters, 2007, 7, 1692-1696.	4.5	89
75	Modulation of the Cytochrome P450 Reductase Redox Potential by the Phospholipid Bilayer. Biochemistry, 2009, 48, 12104-12112.	1.2	89
76	Resonance Raman Investigations of Cytochrome P450camComplexed with Putidaredoxin. Journal of the American Chemical Society, 1997, 119, 6614-6620.	6.6	87
77	Kinetics of Dithionite-Dependent Reduction of Cytochrome P450 3A4:Â Heterogeneity of the Enzyme Caused by Its Oligomerizationâ€. Biochemistry, 2005, 44, 13902-13913.	1.2	87
78	Cytochromes P450 in Nanodiscs. Biochimica Et Biophysica Acta - Proteins and Proteomics, 2011, 1814, 223-229.	1.1	86
79	Energetics of Heme Binding to Native and Denatured States of Cytochrome b562. Biochemistry, 1997, 36, 16141-16146.	1.2	85
80	Thirty years of microbial P450 monooxygenase research: Peroxo-heme intermediatesâ€"The central bus station in heme oxygenase catalysis. Biochemical and Biophysical Research Communications, 2005, 338, 346-354.	1.0	84
81	Conformational equilibria of light-activated rhodopsin in nanodiscs. Proceedings of the National Academy of Sciences of the United States of America, 2017, 114, E3268-E3275.	3.3	84
82	Mapping electrostatic interactions in macromolecular associations. Journal of Molecular Biology, 1991, 221, 1453-1460.	2.0	83
83	The Ferrous-Dioxygen Intermediate in Human Cytochrome P450 3A4. Journal of Biological Chemistry, 2006, 281, 23313-23318.	1.6	83
84	Structural Analysis of Nanoscale Self-Assembled Discoidal Lipid Bilayers by Solid-State NMR Spectroscopy. Biophysical Journal, 2006, 91, 3819-3828.	0.2	82
85	Film Architecture in Biomolecular Assemblies. Effect of Linker on the Orientation of Genetically Engineered Surface-Bound Proteins. Journal of the American Chemical Society, 1996, 118, 9033-9041.	6.6	81
86	Structural differences between soluble and membrane bound cytochrome P450s. Journal of Inorganic Biochemistry, 2012, 108, 150-158.	1.5	81
87	Nanodiscs: A toolkit for membrane protein science. Protein Science, 2021, 30, 297-315.	3.1	80
88	Alteration of heme axial ligands by site-directed mutagenesis: a cytochrome becomes a catalytic demethylase. Journal of the American Chemical Society, 1987, 109, 7896-7897.	6.6	77
89	Co-incorporation of heterologously expressed Arabidopsis cytochrome P450 and P450 reductase into soluble nanoscale lipid bilayers. Archives of Biochemistry and Biophysics, 2004, 424, 141-153.	1.4	76
90	Proton NMR hyperfine shift pattern as a probe for ligation state in high-spin ferric hemoproteins: water binding in metmyoglobin mutants. Journal of the American Chemical Society, 1991, 113, 7886-7892.	6.6	75

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91	Engineering cytochrome P450s for bioremediation. Current Opinion in Biotechnology, 1997, 8, 274-278.	3.3	75
92	Kinetic Solvent Isotope Effect in Human P450 CYP17A1-Mediated Androgen Formation: Evidence for a Reactive Peroxoanion Intermediate. Journal of the American Chemical Society, 2013, 135, 16245-16247.	6.6	73
93	Resonance Raman and EPR Investigations of the D251N Oxycytochrome P450cam/Putidaredoxin Complexâ€. Biochemistry, 2001, 40, 6852-6859.	1.2	71
94	Investigations of Anharmonic Low-Frequency Oscillations in Heme Proteins. Journal of Physical Chemistry A, 2002, 106, 3540-3552.	1.1	71
95	Genetic engineering of surface attachment sites yields oriented protein monolayers. Journal of the American Chemical Society, 1992, 114, 9298-9299.	6.6	70
96	Nanodiscs for Immobilization of Lipid Bilayers and Membrane Receptors: Kinetic Analysis of Cholera Toxin Binding to a Glycolipid Receptor. Analytical Chemistry, 2008, 80, 6245-6252.	3.2	70
97	Application of Fragment-Based Drug Discovery to Membrane Proteins: Identification of Ligands of the Integral Membrane Enzyme DsbB. Chemistry and Biology, 2010, 17, 881-891.	6.2	70
98	Unveiling the crucial intermediates in androgen production. Proceedings of the National Academy of Sciences of the United States of America, 2015, 112, 15856-15861.	3.3	70
99	MECHANISTIC ENZYMOLOGY OF OXYGEN ACTIVATION BY THE CYTOCHROMES P450. Drug Metabolism Reviews, 2002, 34, 691-708.	1.5	68
100	Nanodiscs: A Controlled Bilayer Surface for the Study of Membrane Proteins. Annual Review of Biophysics, 2018, 47, 107-124.	4.5	68
101	Formation and Decay of Hydroperoxo-Ferric Heme Complex in Horseradish Peroxidase Studied by Cryoradiolysis. Journal of Biological Chemistry, 2002, 277, 42706-42710.	1.6	67
102	Intramolecular electron transfer in cytochrome b5 labeled with ruthenium(II) polypyridine complexes: rate measurements in the Marcus inverted region. Journal of the American Chemical Society, 1993, 115, 6820-6824.	6.6	66
103	Ligand Binding to Cytochrome P450 3A4 in Phospholipid Bilayer Nanodiscs. Journal of Biological Chemistry, 2007, 282, 28309-28320.	1.6	66
104	The One-electron Autoxidation of Human Cytochrome P450 3A4. Journal of Biological Chemistry, 2007, 282, 26865-26873.	1.6	65
105	Determination of the orientation of the magnetic axes of the cyano-MetMb complexes of point mutants of myoglobin by solution 1H NMR: influence of his E7 .fwdarw. Gly and Arg CD3 .fwdarw. Gly substitutions. Journal of the American Chemical Society, 1992, 114, 9048-9058.	6.6	63
106	Mutant and Wild-Type Myoglobin-CO Protein Dynamics:Â Vibrational Echo Experiments. Journal of Physical Chemistry B, 1997, 101, 1468-1475.	1.2	63
107	Resonance Raman Spectroscopic Studies of Hydroperoxo-Myoglobin at Cryogenic Temperatures. Journal of the American Chemical Society, 2003, 125, 13714-13718.	6.6	63
108	Metabolic activation of mitomycin C by liver microsomes and nuclei. Biochemical Pharmacology, 1982, 31, 2011-2016.	2.0	62

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109	High-pressure investigations of cytochrome P-450 spin and substrate binding equilibria. Archives of Biochemistry and Biophysics, 1985, 240, 456-463.	1.4	61
110	The iron-histidine mode of myoglobin revisited: resonance Raman studies of isotopically labeled Escherichia coli-expressed myoglobin. Journal of the American Chemical Society, 1991, 113, 9655-9660.	6.6	61
111	Identification of the Feâ˜Oâ˜O Bending Mode in Oxycytochrome P450cam by Resonance Raman Spectroscopy. Journal of the American Chemical Society, 1999, 121, 376-380.	6.6	60
112	Alteration of P450 Distal Pocket Solvent Leads to Impaired Proton Delivery and Changes in Heme Geometry. Biochemistry, 2007, 46, 14129-14140.	1.2	60
113	Resonance Raman Detection of the Hydroperoxo Intermediate in the Cytochrome P450 Enzymatic Cycle. Journal of the American Chemical Society, 2007, 129, 6382-6383.	6.6	60
114	Assembly of Lipids and Proteins into Lipoprotein Particles. Journal of Physical Chemistry B, 2007, 111, 11095-11104.	1.2	60
115	Active site proton delivery and the lyase activity of human CYP17A1. Biochemical and Biophysical Research Communications, 2014, 443, 179-184.	1.0	60
116	Demethylation of N,N-dimethylaniline and p-cyano-N,N-dimethylaniline and their N-oxides by cytochromes P450LM2 and P450CAM. Journal of the American Chemical Society, 1984, 106, 1514-1515.	6.6	59
117	X-ray absorption spectroscopic characterization of a cytochrome P450 compound II derivative. Proceedings of the National Academy of Sciences of the United States of America, 2008, 105, 8179-8184.	3.3	59
118	Mechanism of Drugâ€“Drug Interactions Mediated by Human Cytochrome P450 CYP3A4 Monomer. Biochemistry, 2015, 54, 2227-2239.	1.2	58
119	Putidaredoxin reduction of cytochrome P-450cam: dependence of electron transfer on the identity of putidaredoxin's C-terminal amino acid. Journal of the American Chemical Society, 1990, 112, 7396-7398.	6.6	57
120	Resonance Localized Surface Plasmon Spectroscopy: Sensing Substrate and Inhibitor Binding to Cytochrome P450. Journal of Physical Chemistry C, 2008, 112, 13084-13088.	1.5	57
121	The critical ironâ€“oxygen intermediate in human aromatase. Biochemical and Biophysical Research Communications, 2009, 387, 169-173.	1.0	57
122	Oxidase uncoupling in heme monooxygenases: Human cytochrome P450 CYP3A4 in Nanodiscs. Biochemical and Biophysical Research Communications, 2013, 430, 1223-1227.	1.0	56
123	Nanodisc-solubilized membrane protein library reflects the membrane proteome. Analytical and Bioanalytical Chemistry, 2013, 405, 4009-4016.	1.9	56
124	Functional Assays of Membraneâ€Bound Proteins with SAMDIâ€TOF Mass Spectrometry. Angewandte Chemie - International Edition, 2007, 46, 8796-8798.	7.2	55
125	Cloning and expression of the gene encoding the soluble cytochrome b562 of Escherichia coli. FEBS Journal, 1991, 202, 309-313.	0.2	54
126	Complex Formation of Cytochrome P450cam with Putidaredoxin. Journal of Biological Chemistry, 2002, 277, 2547-2553.	1.6	54

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127	A novel type of allosteric regulation: Functional cooperativity in monomeric proteins. Archives of Biochemistry and Biophysics, 2012, 519, 91-102.	1.4	54
128	Differential Hydrogen Bonding in Human CYP17 Dictates Hydroxylation versus Lyase Chemistry. Angewandte Chemie - International Edition, 2013, 52, 5342-5345.	7.2	54
129	Characterization of the oxygenated intermediate of the thermophilic cytochrome P450 CYP119. Journal of Inorganic Biochemistry, 2001, 87, 215-226.	1.5	51
130	Stereoselective Hydroxylation of Norcamphor by Cytochrome P450cam. Journal of Biological Chemistry, 1995, 270, 5326-5330.	1.6	50
131	Oxygen Activation by Cytochrome P450BM-3: Effects of Mutating an Active Site Acidic Residue. Archives of Biochemistry and Biophysics, 1997, 337, 209-216.	1.4	50
132	1H and 15N resonance assignments and secondary structure of the carbon monoxide complex of sperm whale myoglobin. Journal of Biomolecular NMR, 1994, 4, 491-504.	1.6	49
133	Resonance Raman Spectroscopy of the Oxygenated Intermediates of Human CYP19A1 Implicates a Compound I Intermediate in the Final Lyase Step. Journal of the American Chemical Society, 2014, 136, 4825-4828.	6.6	49
134	Electron transfer from cytochromeb 5 to cytochromec. Journal of Bioenergetics and Biomembranes, 1995, 27, 331-340.	1.0	48
135	Defining CYP3A4 Structural Responses to Substrate Binding. Raman Spectroscopic Studies of a Nanodisc-Incorporated Mammalian Cytochrome P450. Journal of the American Chemical Society, 2011, 133, 1357-1366.	6.6	48
136	Interpretation and Deconvolution of Nanodisc Native Mass Spectra. Journal of the American Society for Mass Spectrometry, 2014, 25, 269-277.	1.2	48
137	Electrostatic stabilization in fourâ€helix bundle proteins. Protein Science, 1993, 2, 826-837.	3.1	47
138	Electron transfer in the complex of membrane-bound human cytochrome P450 3A4 with the flavin domain of P450BM-3: The effect of oligomerization of the heme protein and intermittent modulation of the spin equilibrium. Biochimica Et Biophysica Acta - Bioenergetics, 2010, 1797, 378-390.	0.5	47
139	Glimpsing the Critical Intermediate in Cytochrome P450 Oxidations. Science, 2010, 330, 924-925.	6.0	47
140	Small-angle scattering determination of the shape and localization of human cytochrome P450 embedded in a phospholipid nanodisc environment. Acta Crystallographica Section D: Biological Crystallography, 2015, 71, 2412-2421.	2.5	47
141	Interaction of KRas4b with anionic membranes: A special role for PIP 2. Biochemical and Biophysical Research Communications, 2017, 487, 351-355.	1.0	47
142	Chemotherapeutic attack of hypoxic tumor cells by the bioreductive alkylating agent mitomycin C. Advances in Enzyme Regulation, 1985, 23, 291-307.	2.9	46
143	Maturation of high-density lipoproteins. Journal of the Royal Society Interface, 2009, 6, 863-871.	1.5	46
144	Multiple mechanisms of cytochrome P450-catalyzed substrate hydroxylations. Biochemical and Biophysical Research Communications, 1981, 99, 530-535.	1.0	45

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145	Resonance Raman Studies of Cytochrome P450bm3and Its Complexes with Exogenous Ligandsâ€. Biochemistry, 1999, 38, 13699-13706.	1.2	45
146	Hydrogen-Bonding Interactions in the Active Sites of Cytochrome P450cam and Its Site-Directed Mutants. Journal of the American Chemical Society, 2001, 123, 269-278.	6.6	44
147	Tyrosine motions in relation to the ferric spin equilibrium of cytochrome P-450cam. Biochemistry, 1985, 24, 6696-6701.	1.2	43
148	Understanding thermostability in cytochrome P450 by combinatorial mutagenesis. Protein Science, 2001, 10, 161-168.	3.1	43
149	Two copies of the SecY channel and acidic lipids are necessary to activate the SecA translocation ATPase. Proceedings of the National Academy of Sciences of the United States of America, 2012, 109, 4104-4109.	3.3	43
150	Engineering protein orientation at surfaces to control macromolecular recognition events. Analytical Chemistry, 1993, 65, 2676-2678.	3.2	42
151	Interfacing Lipid Bilayer Nanodiscs and Silicon Photonic Sensor Arrays for Multiplexed Proteinâ€“Lipid and Proteinâ€“Membrane Protein Interaction Screening. Analytical Chemistry, 2013, 85, 2970-2976.	3.2	42
152	Engineering cytochrome P-450cam to increase the stereospecificity and coupling of aliphatic hydroxylation. Protein Engineering, Design and Selection, 1993, 6, 207-212.	1.0	41
153	Kinetic solvent isotope effect in steadyâ€state turnover by CYP19A1 suggests involvement of Compound 1 for both hydroxylation and aromatization steps. FEBS Letters, 2014, 588, 3117-3122.	1.3	41
154	The CO Stretching Mode Infrared Spectrum of Substrate-Free Cytochrome P -450cam-CO. The Effect of Solvent Conditions, Temperature, and Pressure. FEBS Journal, 1996, 235, 660-669.	0.2	39
155	Control and recognition of anionic ligands in myoglobin. FEBS Letters, 1991, 282, 281-284.	1.3	38
156	Protein electrochemistry at high pressure. Journal of the American Chemical Society, 1992, 114, 9660-9661.	6.6	38
157	Single Molecule Height Measurements on a Membrane Protein in Nanometer-Scale Phospholipid Bilayer Disks. Langmuir, 2000, 16, 5993-5997.	1.6	38
158	Functional reconstitution of monomeric CYP3A4 with multiple cytochrome P450 reductase molecules in Nanodiscs. Biochemical and Biophysical Research Communications, 2010, 398, 194-198.	1.0	38
159	Blood clotting reactions on nanoscale phospholipid bilayers. Thrombosis Research, 2008, 122, S23-S26.	0.8	37
160	Optical determination of surface density in oriented metalloprotein nanostructures. Analytical Chemistry, 1993, 65, 1635-1638.	3.2	35
161	Cytochrome P450 and Aromatic Bases: A 1H NMR Study. Journal of the American Chemical Society, 1994, 116, 4866-4873.	6.6	35
162	Heme Binding Biguanides Target Cytochrome P450-Dependent Cancer Cell Mitochondria. Cell Chemical Biology, 2017, 24, 1259-1275.e6.	2.5	35

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163	Human Cytochrome CYP17A1: The Structural Basis for Compromised Lyase Activity with 17-Hydroxyprogesterone. Journal of the American Chemical Society, 2018, 140, 7324-7331.	6.6	35
164	ENDOR Determination of Heme Ligation in Chloroperoxidase and Comparison with Cytochrome P-450Cam. Journal of the American Chemical Society, 1994, 116, 5989-5990.	6.6	34
165	Electron Transfer between Cytochrome P450cin and Its FMN-containing Redox Partner, Cindoxin. Journal of Biological Chemistry, 2007, 282, 27006-27011.	1.6	34
166	Cryogenic absorption spectra of hydroperoxo-ferric heme oxygenase, the active intermediate of enzymatic heme oxygenation. FEBS Letters, 2002, 532, 203-206.	1.3	33
167	[3] Mutagenesis of cytochromes P450cam and b5. Methods in Enzymology, 1991, 206, 31-49.	0.4	32
168	Analysis of Heterotropic Cooperativity in Cytochrome P450 3A4 Using Î±-Naphthoflavone and Testosterone. Journal of Biological Chemistry, 2011, 286, 5540-5545.	1.6	32
169	Constitutively active rhodopsin mutants causing night blindness are effectively phosphorylated by GRKs but differ in arrestin-1 binding. Cellular Signalling, 2013, 25, 2155-2162.	1.7	32
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