

Stephen G Sligar

List of Publications by Year in Descending Order

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The third column is the impact factor (IF) of the journal, and the fourth column is the number of citations of the article.

272
papers

22,111
citations

78
h-index

139
g-index

282
ext. papers

23,815
ext. citations

7.9
avg, IF

6.95
L-index

#	Paper	IF	Citations
272	Mechanism of the Clinically Relevant E305G Mutation in Human P450 CYP17A1. <i>Biochemistry</i> , 2021 , 60, 3262-3271	3.2	1
271	Substrate-Specific Allosteric Effects on the Enhancement of CYP17A1 Lyase Efficiency by Cytochrome. <i>Journal of the American Chemical Society</i> , 2021 , 143, 3729-3733	16.4	1
270	Midazolam as a Probe for Drug-Drug Interactions Mediated by CYP3A4: Homotropic Allosteric Mechanism of Site-Specific Hydroxylation. <i>Biochemistry</i> , 2021 , 60, 1670-1681	3.2	4
269	Nanodiscs: A toolkit for membrane protein science. <i>Protein Science</i> , 2021 , 30, 297-315	6.3	27
268	Nanodisc self-assembly is thermodynamically reversible and controllable. <i>Soft Matter</i> , 2020 , 16, 5615-5623	3.5	3
267	Membrane-Bound Ras as a Conformational Clock. <i>Biophysical Journal</i> , 2020 , 118, 991-993	2.9	3
266	Antibody Targeted PET Imaging of Cu-DOTA-Anti-CEA PEGylated Lipid Nanodiscs in CEA Positive Tumors. <i>Bioconjugate Chemistry</i> , 2020 , 31, 743-753	6.3	5
265	Molecular Orientation Determination in Nanodiscs at the Single-Molecule Level. <i>Analytical Chemistry</i> , 2020 , 92, 2229-2236	7.8	3
264	P450 CYP17A1 Variant with a Disordered Proton Shuttle Assembly Retains Peroxo-Mediated Lyase Efficiency. <i>Chemistry - A European Journal</i> , 2020 , 26, 16846-16852	4.8	5
263	Dark, Ultra-Dark and Ultra-Bright Nanodiscs for membrane protein investigations. <i>Analytical Biochemistry</i> , 2020 , 607, 113860	3.1	1
262	Influence of Transmembrane Helix Mutations on Cytochrome P450-Membrane Interactions and Function. <i>Biophysical Journal</i> , 2019 , 116, 419-432	2.9	13
261	Nanodiscs as a New Tool to Examine Lipid-Protein Interactions. <i>Methods in Molecular Biology</i> , 2019 , 2003, 645-671	1.4	9
260	NMR analysis of free and lipid nanodisc anchored CEACAM1 membrane proximal peptides with Ca/CaM. <i>Biochimica Et Biophysica Acta - Biomembranes</i> , 2019 , 1861, 787-797	3.8	5
259	Allosteric Interactions in Human Cytochrome P450 CYP3A4: The Role of Phenylalanine 213. <i>Biochemistry</i> , 2019 , 58, 1411-1422	3.2	12
258	The hydrodynamic motion of Nanodiscs. <i>Chemistry and Physics of Lipids</i> , 2019 , 220, 28-35	3.7	4
257	PIP2 Influences the Conformational Dynamics of Membrane-Bound KRAS4b. <i>Biochemistry</i> , 2019 , 58, 3537-3545	3.19	19
256	Biotransformation of the Mycotoxin Enniatin B1 by CYP P450 3A4 and Potential for Drug-Drug Interactions. <i>Metabolites</i> , 2019 , 9,	5.6	5

255	Nanodiscs: A Controlled Bilayer Surface for the Study of Membrane Proteins. <i>Annual Review of Biophysics</i> , 2018 , 47, 107-124	21.1	49
254	Human P450 CYP17A1: Control of Substrate Preference by Asparagine 202. <i>Biochemistry</i> , 2018 , 57, 764-771	3.7	6
253	Cytochrome b enhances androgen synthesis by rapidly reducing the CYP17A1 oxy-complex in the lyase step. <i>FEBS Letters</i> , 2018 , 592, 2282-2288	3.8	11
252	SMPL Synaptic Membranes: Nanodisc-Mediated Synaptic Membrane Mimetics Expand the Toolkit for Drug Discovery and the Molecular Cell Biology of Synapses. <i>NeuroMethods</i> , 2018 , 227-250	0.4	1
251	Drug-Drug Interactions between Atorvastatin and Dronedarone Mediated by Monomeric CYP3A4. <i>Biochemistry</i> , 2018 , 57, 805-816	3.2	16
250	Human Cytochrome CYP17A1: The Structural Basis for Compromised Lyase Activity with 17-Hydroxyprogesterone. <i>Journal of the American Chemical Society</i> , 2018 , 140, 7324-7331	16.4	17
249	Nanodiscs in Membrane Biochemistry and Biophysics. <i>Chemical Reviews</i> , 2017 , 117, 4669-4713	68.1	288
248	Conformational equilibria of light-activated rhodopsin in nanodiscs. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2017 , 114, E3268-E3275	11.5	64
247	Interaction of KRas4b with anionic membranes: A special role for PIP. <i>Biochemical and Biophysical Research Communications</i> , 2017 , 487, 351-355	3.4	36
246	Heme Binding Biguanides Target Cytochrome P450-Dependent Cancer Cell Mitochondria. <i>Cell Chemical Biology</i> , 2017 , 24, 1259-1275.e6	8.2	15
245	Microfluidic platform for efficient Nanodisc assembly, membrane protein incorporation, and purification. <i>Lab on A Chip</i> , 2017 , 17, 2951-2959	7.2	7
244	Alzheimer's Toxic Amyloid Beta Oligomers: Unwelcome Visitors to the Na/K ATPase alpha3 Docking Station. <i>Yale Journal of Biology and Medicine</i> , 2017 , 90, 45-61	2.4	17
243	Phosphatidylinositol 4,5-Bisphosphate Modulates the Affinity of Talin-1 for Phospholipid Bilayers and Activates Its Autoinhibited Form. <i>Biochemistry</i> , 2016 , 55, 5038-48	3.2	23
242	Trimerization of the HIV Transmembrane Domain in Lipid Bilayers Modulates Broadly Neutralizing Antibody Binding. <i>Angewandte Chemie</i> , 2016 , 128, 2738-2742	3.6	
241	Nanodiscs for structural and functional studies of membrane proteins. <i>Nature Structural and Molecular Biology</i> , 2016 , 23, 481-6	17.6	252
240	Evidence that cytochrome b5 acts as a redox donor in CYP17A1 mediated androgen synthesis. <i>Biochemical and Biophysical Research Communications</i> , 2016 , 477, 202-8	3.4	25
239	The use of isomeric testosterone dimers to explore allosteric effects in substrate binding to cytochrome P450 CYP3A4. <i>Journal of Inorganic Biochemistry</i> , 2016 , 158, 77-85	4.2	22
238	Trimerization of the HIV Transmembrane Domain in Lipid Bilayers Modulates Broadly Neutralizing Antibody Binding. <i>Angewandte Chemie - International Edition</i> , 2016 , 55, 2688-92	16.4	18

237	Conformational equilibrium of talin is regulated by anionic lipids. <i>Biochimica Et Biophysica Acta - Biomembranes</i> , 2016 , 1858, 1833-40	3.8	19
236	The Charge Properties of Phospholipid Nanodiscs. <i>Biophysical Journal</i> , 2016 , 111, 989-98	2.9	21
235	Mechanism of drug-drug interactions mediated by human cytochrome P450 CYP3A4 monomer. <i>Biochemistry</i> , 2015 , 54, 2227-39	3.2	46
234	Nanodiscs as a Modular Platform for Multimodal MR-Optical Imaging. <i>Bioconjugate Chemistry</i> , 2015 , 26, 899-905	6.3	19
233	Metalloproteins: The long and the short of it. <i>Nature Chemistry</i> , 2015 , 7, 687-8	17.6	2
232	Nanoscale Synaptic Membrane Mimetic Allows Unbiased High Throughput Screen That Targets Binding Sites for Alzheimer's-Associated A β Oligomers. <i>PLoS ONE</i> , 2015 , 10, e0125263	3.7	26
231	Activation of Molecular Oxygen in Cytochromes P450 2015 , 69-109		10
230	Unveiling the crucial intermediates in androgen production. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2015 , 112, 15856-61	11.5	51
229	Small-angle scattering determination of the shape and localization of human cytochrome P450 embedded in a phospholipid nanodisc environment. <i>Acta Crystallographica Section D: Biological Crystallography</i> , 2015 , 71, 2412-21		35
228	Resonance Raman spectroscopy reveals that substrate structure selectively impacts the heme-bound diatomic ligands of CYP17. <i>Biochemistry</i> , 2014 , 53, 90-100	3.2	19
227	Active site proton delivery and the lyase activity of human CYP17A1. <i>Biochemical and Biophysical Research Communications</i> , 2014 , 443, 179-84	3.4	49
226	Assembly of an activated rhodopsin-transducin complex in nanoscale lipid bilayers. <i>Biochemistry</i> , 2014 , 53, 127-34	3.2	14
225	Kinetic solvent isotope effect in steady-state turnover by CYP19A1 suggests involvement of Compound 1 for both hydroxylation and aromatization steps. <i>FEBS Letters</i> , 2014 , 588, 3117-22	3.8	33
224	Interpretation and deconvolution of nanodisc native mass spectra. <i>Journal of the American Society for Mass Spectrometry</i> , 2014 , 25, 269-77	3.5	41
223	Resonance Raman spectroscopy of the oxygenated intermediates of human CYP19A1 implicates a compound I intermediate in the final lyase step. <i>Journal of the American Chemical Society</i> , 2014 , 136, 4825-8	16.4	42
222	Interfacing lipid bilayer nanodiscs and silicon photonic sensor arrays for multiplexed protein-lipid and protein-membrane protein interaction screening. <i>Analytical Chemistry</i> , 2013 , 85, 2970-6	7.8	35
221	Kinetic solvent isotope effect in human P450 CYP17A1-mediated androgen formation: evidence for a reactive peroxyanion intermediate. <i>Journal of the American Chemical Society</i> , 2013 , 135, 16245-7	16.4	50
220	Oxidase uncoupling in heme monooxygenases: human cytochrome P450 CYP3A4 in Nanodiscs. <i>Biochemical and Biophysical Research Communications</i> , 2013 , 430, 1223-7	3.4	49

219	Constitutively active rhodopsin mutants causing night blindness are effectively phosphorylated by GRKs but differ in arrestin-1 binding. <i>Cellular Signalling</i> , 2013 , 25, 2155-62	4.9	32
218	Nanodiscs as a new tool to examine lipid-protein interactions. <i>Methods in Molecular Biology</i> , 2013 , 974, 415-33	1.4	108
217	Differential hydrogen bonding in human CYP17 dictates hydroxylation versus lyase chemistry. <i>Angewandte Chemie - International Edition</i> , 2013 , 52, 5342-5	16.4	46
216	Characterizing the membrane-bound state of cytochrome P450 3A4: structure, depth of insertion, and orientation. <i>Journal of the American Chemical Society</i> , 2013 , 135, 8542-51	16.4	115
215	Nanodisc-solubilized membrane protein library reflects the membrane proteome. <i>Analytical and Bioanalytical Chemistry</i> , 2013 , 405, 4009-16	4.4	43
214	Differential Hydrogen Bonding in Human CYP17 Dictates Hydroxylation versus Lyase Chemistry. <i>Angewandte Chemie</i> , 2013 , 125, 5450-5453	3.6	7
213	Nanodiscs as a therapeutic delivery agent: inhibition of respiratory syncytial virus infection in the lung. <i>International Journal of Nanomedicine</i> , 2013 , 8, 1417-27	7.3	26
212	Structural differences between soluble and membrane bound cytochrome P450s. <i>Journal of Inorganic Biochemistry</i> , 2012 , 108, 150-8	4.2	71
211	Ultra-thin layer MALDI mass spectrometry of membrane proteins in nanodiscs. <i>Analytical and Bioanalytical Chemistry</i> , 2012 , 402, 721-9	4.4	28
210	Native mass spectrometry characterization of intact nanodisc lipoprotein complexes. <i>Analytical Chemistry</i> , 2012 , 84, 8957-60	7.8	83
209	Tissue factor/factor VIIa complex: role of the membrane surface. <i>Thrombosis Research</i> , 2012 , 129 Suppl 2, S8-10	8.2	19
208	A novel type of allosteric regulation: functional cooperativity in monomeric proteins. <i>Archives of Biochemistry and Biophysics</i> , 2012 , 519, 91-102	4.1	47
207	Nonlinear analyte concentration gradients for one-step kinetic analysis employing optical microring resonators. <i>Analytical Chemistry</i> , 2012 , 84, 5556-64	7.8	15
206	Reconstitution of respiratory oxidases in membrane nanodiscs for investigation of proton-coupled electron transfer. <i>FEBS Letters</i> , 2012 , 586, 640-5	3.8	20
205	Two copies of the SecY channel and acidic lipids are necessary to activate the SecA translocation ATPase. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2012 , 109, 4104-9	11.5	37
204	Biomimetic chemical sensors using nanoelectronic readout of olfactory receptor proteins. <i>ACS Nano</i> , 2011 , 5, 5408-16	16.7	157
203	Investigation of the low frequency dynamics of heme proteins: native and mutant cytochrome P450(cam) and redox partner complexes. <i>Journal of Physical Chemistry B</i> , 2011 , 115, 5665-77	3.4	19
202	Spectroscopic features of cytochrome P450 reaction intermediates. <i>Archives of Biochemistry and Biophysics</i> , 2011 , 507, 26-35	4.1	96

201	Temperature derivative spectroscopy to monitor the autoxidation decay of cytochromes P450. <i>Analytical Chemistry</i> , 2011 , 83, 5394-9	7.8	8
200	Defining CYP3A4 structural responses to substrate binding. Raman spectroscopic studies of a nanodisc-incorporated mammalian cytochrome P450. <i>Journal of the American Chemical Society</i> , 2011 , 133, 1357-66	16.4	39
199	Cytochromes P450 in nanodiscs. <i>Biochimica Et Biophysica Acta - Proteins and Proteomics</i> , 2011 , 1814, 223-9	7.8	78
198	Anomalous transitions of DODAB using fast scanning liquid calorimetry. <i>Thermochimica Acta</i> , 2011 , 522, 72-76	2.9	14
197	Analysis of heterotropic cooperativity in cytochrome P450 3A4 using alpha-naphthoflavone and testosterone. <i>Journal of Biological Chemistry</i> , 2011 , 286, 5540-5	5.4	28
196	Monomeric rhodopsin is sufficient for normal rhodopsin kinase (GRK1) phosphorylation and arrestin-1 binding. <i>Journal of Biological Chemistry</i> , 2011 , 286, 1420-8	5.4	157
195	Measuring mechanical tension across vinculin reveals regulation of focal adhesion dynamics. <i>Nature</i> , 2010 , 466, 263-6	50.4	1031
194	Photoelectrochemical complexes for solar energy conversion that chemically and autonomously regenerate. <i>Nature Chemistry</i> , 2010 , 2, 929-936	17.6	120
193	Chemistry. Glimpsing the critical intermediate in cytochrome P450 oxidations. <i>Science</i> , 2010 , 330, 924-5	33.3	41
192	Recreation of the terminal events in physiological integrin activation. <i>Journal of Cell Biology</i> , 2010 , 188, 157-73	7.3	208
191	Engineering extended membrane scaffold proteins for self-assembly of soluble nanoscale lipid bilayers. <i>Protein Engineering, Design and Selection</i> , 2010 , 23, 843-8	1.9	93
190	26 Cytochrome P450 Enzymes. <i>Handbook of Porphyrin Science</i> , 2010 , 165-201	0.3	4
189	Lipid-protein correlations in nanoscale phospholipid bilayers determined by solid-state nuclear magnetic resonance. <i>Biochemistry</i> , 2010 , 49, 9190-8	3.2	29
188	Functional reconstitution of monomeric CYP3A4 with multiple cytochrome P450 reductase molecules in Nanodiscs. <i>Biochemical and Biophysical Research Communications</i> , 2010 , 398, 194-8	3.4	34
187	Elliptical structure of phospholipid bilayer nanodiscs encapsulated by scaffold proteins: casting the roles of the lipids and the protein. <i>Journal of the American Chemical Society</i> , 2010 , 132, 13713-22	16.4	94
186	Nanomechanical detection of cholera toxin using microcantilevers functionalized with ganglioside nanodiscs. <i>Nanotechnology</i> , 2010 , 21, 435502	3.4	21
185	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. <i>Biochimica Et Biophysica Acta - Bioenergetics</i> , 2010 , 1797, 378-90	4.6	45
184	Membrane protein assembly into Nanodiscs. <i>FEBS Letters</i> , 2010 , 584, 1721-7	3.8	553

183	Application of fragment-based drug discovery to membrane proteins: identification of ligands of the integral membrane enzyme DsbB. <i>Chemistry and Biology</i> , 2010 , 17, 881-91		57
182	Maturation of high-density lipoproteins. <i>Journal of the Royal Society Interface</i> , 2009 , 6, 863-71	4.1	36
181	Cooperative properties of cytochromes P450. <i>Pharmacology & Therapeutics</i> , 2009 , 124, 151-67	13.9	80
180	Modulation of the cytochrome P450 reductase redox potential by the phospholipid bilayer. <i>Biochemistry</i> , 2009 , 48, 12104-12	3.2	77
179	Screening of type I and II drug binding to human cytochrome P450-3A4 in nanodiscs by localized surface plasmon resonance spectroscopy. <i>Analytical Chemistry</i> , 2009 , 81, 3754-9	7.8	107
178	The critical iron-oxygen intermediate in human aromatase. <i>Biochemical and Biophysical Research Communications</i> , 2009 , 387, 169-73	3.4	56
177	Mixing apples and oranges: Analysis of heterotropic cooperativity in cytochrome P450 3A4. <i>Archives of Biochemistry and Biophysics</i> , 2009 , 488, 146-52	4.1	23
176	Mechanism of chromophore assisted laser inactivation employing fluorescent proteins. <i>Analytical Chemistry</i> , 2009 , 81, 1755-61	7.8	29
175	Molecular models need to be tested: the case of a solar flares discoidal HDL model. <i>Biophysical Journal</i> , 2008 , 94, L87-9	2.9	27
174	The ferrous-oxy complex of human aromatase. <i>Biochemical and Biophysical Research Communications</i> , 2008 , 372, 379-82	3.4	29
173	Nanodiscs for immobilization of lipid bilayers and membrane receptors: kinetic analysis of cholera toxin binding to a glycolipid receptor. <i>Analytical Chemistry</i> , 2008 , 80, 6245-52	7.8	66
172	Blood clotting reactions on nanoscale phospholipid bilayers. <i>Thrombosis Research</i> , 2008 , 122 Suppl 1, S23-6	8.2	35
171	Microfluidic patterning of nanodisc lipid bilayers and multiplexed analysis of protein interaction. <i>Lab on A Chip</i> , 2008 , 8, 1723-8	7.2	28
170	Resonance Raman characterization of the peroxo and hydroperoxo intermediates in cytochrome P450. <i>Journal of Physical Chemistry A</i> , 2008 , 112, 13172-9	2.8	77
169	Resonance Localized Surface Plasmon Spectroscopy: Sensing Substrate and Inhibitor Binding to Cytochrome P450. <i>Journal of Physical Chemistry C</i> , 2008 , 112, 13084-13088	3.8	49
168	X-ray absorption spectroscopic characterization of a cytochrome P450 compound II derivative. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2008 , 105, 8179-84	11.5	53
167	Exploring the electron transfer properties of neuronal nitric-oxide synthase by reversal of the FMN redox potential. <i>Journal of Biological Chemistry</i> , 2008 , 283, 34762-72	5.4	29
166	Chapter 11 Molecular Modeling of the Structural Properties and Formation of High-Density Lipoprotein Particles. <i>Current Topics in Membranes</i> , 2008 , 60, 313-342	2.2	8

165	Homotropic and heterotropic cooperativity of CYP3A4 and drug-drug interactions. <i>FASEB Journal</i> , 2008 , 22, 919-6	0.9	
164	Alteration of P450 distal pocket solvent leads to impaired proton delivery and changes in heme geometry. <i>Biochemistry</i> , 2007 , 46, 14129-40	3.2	57
163	Magic-angle spinning solid-state NMR spectroscopy of nanodisc-embedded human CYP3A4. <i>Biochemistry</i> , 2007 , 46, 13696-703	3.2	92
162	Resonance Raman detection of the hydroperoxo intermediate in the cytochrome P450 enzymatic cycle. <i>Journal of the American Chemical Society</i> , 2007 , 129, 6382-3	16.4	54
161	Disassembly of nanodiscs with cholate. <i>Nano Letters</i> , 2007 , 7, 1692-6	11.5	86
160	Assembly of lipids and proteins into lipoprotein particles. <i>Journal of Physical Chemistry B</i> , 2007 , 111, 11095-10459	3.2	59
159	Applications of phospholipid bilayer nanodiscs in the study of membranes and membrane proteins. <i>Biochemistry</i> , 2007 , 46, 2059-69	3.2	358
158	Functional assays of membrane-bound proteins with SAMDI-TOF mass spectrometry. <i>Angewandte Chemie - International Edition</i> , 2007 , 46, 8796-8	16.4	51
157	Nanodiscs unravel the interaction between the SecYEG channel and its cytosolic partner SecA. <i>EMBO Journal</i> , 2007 , 26, 1995-2004	13	126
156	Cooperativity in cytochrome P450 3A4: linkages in substrate binding, spin state, uncoupling, and product formation. <i>Journal of Biological Chemistry</i> , 2007 , 282, 7066-76	5.4	162
155	The one-electron autoxidation of human cytochrome P450 3A4. <i>Journal of Biological Chemistry</i> , 2007 , 282, 26865-26873	5.4	60
154	Ligand binding to cytochrome P450 3A4 in phospholipid bilayer nanodiscs: the effect of model membranes. <i>Journal of Biological Chemistry</i> , 2007 , 282, 28309-28320	5.4	58
153	Transducin activation by nanoscale lipid bilayers containing one and two rhodopsins. <i>Journal of Biological Chemistry</i> , 2007 , 282, 14875-81	5.4	295
152	Understanding cooperativity in human p450 mediated drug-drug interactions. <i>Drug Metabolism Reviews</i> , 2007 , 39, 567-79	7	20
151	Electron transfer between cytochrome P450cin and its FMN-containing redox partner, cindoxin. <i>Journal of Biological Chemistry</i> , 2007 , 282, 27006-27011	5.4	27
150	The ferric-hydroperoxo complex of chloroperoxidase. <i>Biochemical and Biophysical Research Communications</i> , 2007 , 363, 954-8	3.4	28
149	Redox potential control by drug binding to cytochrome P450 3A4. <i>Journal of the American Chemical Society</i> , 2007 , 129, 13778-9	16.4	104
148	The local phospholipid environment modulates the activation of blood clotting. <i>Journal of Biological Chemistry</i> , 2007 , 282, 6556-63	5.4	117

147	Nanodiscs separate chemoreceptor oligomeric states and reveal their signaling properties. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2006 , 103, 11509-14	11.5	170
146	The ferrous-dioxygen intermediate in human cytochrome P450 3A4. Substrate dependence of formation and decay kinetics. <i>Journal of Biological Chemistry</i> , 2006 , 281, 23313-8	5.4	73
145	Structural analysis of nanoscale self-assembled discoidal lipid bilayers by solid-state NMR spectroscopy. <i>Biophysical Journal</i> , 2006 , 91, 3819-28	2.9	76
144	Resonance surface plasmon spectroscopy: low molecular weight substrate binding to cytochrome p450. <i>Journal of the American Chemical Society</i> , 2006 , 128, 11004-5	16.4	103
143	Cytochrome p450 compound I. <i>Journal of the American Chemical Society</i> , 2006 , 128, 4580-1	16.4	128
142	Assembly of single bacteriorhodopsin trimers in bilayer nanodiscs. <i>Archives of Biochemistry and Biophysics</i> , 2006 , 450, 215-22	4.1	141
141	Functional reconstitution of Beta2-adrenergic receptors utilizing self-assembling Nanodisc technology. <i>BioTechniques</i> , 2006 , 40, 601-2, 604, 606, passim	2.5	177
140	The status of high-valent metal oxo complexes in the P450 cytochromes. <i>Journal of Inorganic Biochemistry</i> , 2006 , 100, 507-18	4.2	109
139	Structure and chemistry of cytochrome P450. <i>Chemical Reviews</i> , 2005 , 105, 2253-77	68.1	1535
138	Kinetics of dithionite-dependent reduction of cytochrome P450 3A4: heterogeneity of the enzyme caused by its oligomerization. <i>Biochemistry</i> , 2005 , 44, 13902-13	3.2	80
137	Thermotropic phase transition in soluble nanoscale lipid bilayers. <i>Journal of Physical Chemistry B</i> , 2005 , 109, 15580-8	3.4	137
136	Thirty years of microbial P450 monooxygenase research: peroxo-heme intermediates--the central bus station in heme oxygenase catalysis. <i>Biochemical and Biophysical Research Communications</i> , 2005 , 338, 346-54	3.4	80
135	The influence of substrate on the spectral properties of oxyferrous wild-type and T252A cytochrome P450-CAM. <i>Archives of Biochemistry and Biophysics</i> , 2005 , 436, 40-9	4.1	26
134	A retinoic acid binding cytochrome P450: CYP120A1 from <i>Synechocystis</i> sp. PCC 6803. <i>Archives of Biochemistry and Biophysics</i> , 2005 , 436, 110-20	4.1	23
133	Molecular dynamics simulations of discoidal bilayers assembled from truncated human lipoproteins. <i>Biophysical Journal</i> , 2005 , 88, 548-56	2.9	106
132	Tyrosine radical formation in the reaction of wild type and mutant cytochrome P450cam with peroxy acids: a multifrequency EPR study of intermediates on the millisecond time scale. <i>Journal of Biological Chemistry</i> , 2004 , 279, 10919-30	5.4	83
131	Sizing DNA using a nanometer-diameter pore. <i>Biophysical Journal</i> , 2004 , 87, 2905-11	2.9	255
130	Co-incorporation of heterologously expressed Arabidopsis cytochrome P450 and P450 reductase into soluble nanoscale lipid bilayers. <i>Archives of Biochemistry and Biophysics</i> , 2004 , 424, 141-53	4.1	74

129	Homotropic cooperativity of monomeric cytochrome P450 3A4 in a nanoscale native bilayer environment. <i>Archives of Biochemistry and Biophysics</i> , 2004 , 430, 218-28	4.1	158
128	Phospholipid phase transitions in homogeneous nanometer scale bilayer discs. <i>FEBS Letters</i> , 2004 , 556, 260-4	3.8	115
127	Self-assembly of single integral membrane proteins into soluble nanoscale phospholipid bilayers. <i>Protein Science</i> , 2003 , 12, 2476-81	6.3	207
126	Direct solubilization of heterologously expressed membrane proteins by incorporation into nanoscale lipid bilayers. <i>BioTechniques</i> , 2003 , 35, 556-60, 562-3	2.5	136
125	Resonance Raman spectroscopic studies of hydroperoxo-myoglobin at cryogenic temperatures. <i>Journal of the American Chemical Society</i> , 2003 , 125, 13714-8	16.4	60
124	Epoxidation of olefins by hydroperoxo-ferric cytochrome P450. <i>Journal of the American Chemical Society</i> , 2003 , 125, 3406-7	16.4	132
123	Finding a single-molecule solution for membrane proteins. <i>Biochemical and Biophysical Research Communications</i> , 2003 , 312, 115-9	3.4	29
122	Thermophilic cytochrome P450 (CYP119) from <i>Sulfolobus solfataricus</i> : high resolution structure and functional properties. <i>Journal of Inorganic Biochemistry</i> , 2002 , 91, 491-501	4.2	105
121	Self-Assembly of Discoidal Phospholipid Bilayer Nanoparticles with Membrane Scaffold Proteins. <i>Nano Letters</i> , 2002 , 2, 853-856	11.5	555
120	Single-molecule height measurements on microsomal cytochrome P450 in nanometer-scale phospholipid bilayer disks. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2002 , 99, 6725-30	11.5	165
119	Kinetic characterization of compound I formation in the thermostable cytochrome P450 CYP119. <i>Journal of Biological Chemistry</i> , 2002 , 277, 9641-4	5.4	187
118	Mechanistic enzymology of oxygen activation by the cytochromes P450. <i>Drug Metabolism Reviews</i> , 2002 , 34, 691-708	7	67
117	Complex formation of cytochrome P450cam with Putidaredoxin. Evidence for protein-specific interactions involving the proximal thiolate ligand. <i>Journal of Biological Chemistry</i> , 2002 , 277, 2547-53	5.4	51
116	Formation and decay of hydroperoxo-ferric heme complex in horseradish peroxidase studied by cryoradiolysis. <i>Journal of Biological Chemistry</i> , 2002 , 277, 42706-10	5.4	64
115	Intersubunit circular permutation of human hemoglobin. <i>Blood</i> , 2002 , 100, 299-305	2.2	21
114	Cryoradiolysis for the study of P450 reaction intermediates. <i>Methods in Enzymology</i> , 2002 , 357, 103-15	1.7	28
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