

Ilia G Denisov

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.

80
papers

6,293
citations

35
h-index

79
g-index

90
ext. papers

7,116
ext. citations

7
avg, IF

6.1
L-index

#	Paper	IF	Citations
80	Mechanism of the Clinically Relevant E305G Mutation in Human P450 CYP17A1. <i>Biochemistry</i> , 2021 , 60, 3262-3271	3.2	1
79	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
78	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
77	Nanodiscs: A toolkit for membrane protein science. <i>Protein Science</i> , 2021 , 30, 297-315	6.3	27
76	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
75	Dark, Ultra-Dark and Ultra-Bright Nanodiscs for membrane protein investigations. <i>Analytical Biochemistry</i> , 2020 , 607, 113860	3.1	1
74	Nanodiscs as a New Tool to Examine Lipid-Protein Interactions. <i>Methods in Molecular Biology</i> , 2019 , 2003, 645-671	1.4	9
73	Allosteric Interactions in Human Cytochrome P450 CYP3A4: The Role of Phenylalanine 213. <i>Biochemistry</i> , 2019 , 58, 1411-1422	3.2	12
72	Biotransformation of the Mycotoxin Enniatin B1 by CYP P450 3A4 and Potential for Drug-Drug Interactions. <i>Metabolites</i> , 2019 , 9,	5.6	5
71	Spectroscopic studies of the cytochrome P450 reaction mechanisms. <i>Biochimica Et Biophysica Acta - Proteins and Proteomics</i> , 2018 , 1866, 178-204	4	32
70	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
69	Drug-Drug Interactions between Atorvastatin and Dronedarone Mediated by Monomeric CYP3A4. <i>Biochemistry</i> , 2018 , 57, 805-816	3.2	16
68	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
67	Nanodiscs in Membrane Biochemistry and Biophysics. <i>Chemical Reviews</i> , 2017 , 117, 4669-4713	68.1	288
66	Heme Binding Biguanides Target Cytochrome P450-Dependent Cancer Cell Mitochondria. <i>Cell Chemical Biology</i> , 2017 , 24, 1259-1275.e6	8.2	15
65	Nanodiscs for structural and functional studies of membrane proteins. <i>Nature Structural and Molecular Biology</i> , 2016 , 23, 481-6	17.6	252
64	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

63	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
62	Mechanism of drug-drug interactions mediated by human cytochrome P450 CYP3A4 monomer. <i>Biochemistry</i> , 2015 , 54, 2227-39	3.2	46
61	Metalloproteins: The long and the short of it. <i>Nature Chemistry</i> , 2015 , 7, 687-8	17.6	2
60	Activation of Molecular Oxygen in Cytochromes P450 2015 , 69-109		10
59	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
58	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
57	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
56	Lipid Diversity and Its Implications for Membrane Organization 2014 , 142-159		1
55	Investigations of heme ligation and ligand switching in cytochromes p450 and p420. <i>Biochemistry</i> , 2013 , 52, 5941-51	3.2	29
54	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
53	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
52	Nanodiscs in the studies of membrane-bound cytochrome P450 enzymes. <i>Methods in Molecular Biology</i> , 2013 , 987, 115-27	1.4	35
51	Nanodiscs as a new tool to examine lipid-protein interactions. <i>Methods in Molecular Biology</i> , 2013 , 974, 415-33	1.4	108
50	Structural differences between soluble and membrane bound cytochrome P450s. <i>Journal of Inorganic Biochemistry</i> , 2012 , 108, 150-8	4.2	71
49	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
48	Cryoradiolysis and cryospectroscopy for studies of heme-oxygen intermediates in cytochromes p450. <i>Methods in Molecular Biology</i> , 2012 , 875, 375-91	1.4	8
47	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
46	Spectroscopic features of cytochrome P450 reaction intermediates. <i>Archives of Biochemistry and Biophysics</i> , 2011 , 507, 26-35	4.1	96

45	Temperature derivative spectroscopy to monitor the autoxidation decay of cytochromes P450. <i>Analytical Chemistry</i> , 2011 , 83, 5394-9	7.8	8
44	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
43	Cytochromes P450 in nanodiscs. <i>Biochimica Et Biophysica Acta - Proteins and Proteomics</i> , 2011 , 1814, 223-9	7.8	78
42	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
41	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
40	26 Cytochrome P450 Enzymes. <i>Handbook of Porphyrin Science</i> , 2010 , 165-201	0.3	4
39	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
38	Cryoradiolysis as a Method for Mechanistic Studies in Inorganic Biochemistry 2010 , 109-142		5
37	Cooperative properties of cytochromes P450. <i>Pharmacology & Therapeutics</i> , 2009 , 124, 151-67	13.9	80
36	The critical iron-oxygen intermediate in human aromatase. <i>Biochemical and Biophysical Research Communications</i> , 2009 , 387, 169-73	3.4	56
35	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
34	Chapter 11 - Reconstitution of membrane proteins in phospholipid bilayer nanodiscs. <i>Methods in Enzymology</i> , 2009 , 464, 211-31	1.7	563
33	The ferrous-oxy complex of human aromatase. <i>Biochemical and Biophysical Research Communications</i> , 2008 , 372, 379-82	3.4	29
32	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
31	Low-frequency dynamics of <i>Caldariomyces fumago</i> chloroperoxidase probed by femtosecond coherence spectroscopy. <i>Biochemistry</i> , 2008 , 47, 5156-67	3.2	16
30	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
29	Cryoradiolytic reduction of heme proteins: Maximizing dose dependent yield. <i>Radiation Physics and Chemistry</i> , 2007 , 76, 714-721	2.5	16
28	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

27	The one-electron autoxidation of human cytochrome P450 3A4. <i>Journal of Biological Chemistry</i> , 2007 , 282, 26865-26873	5.4	60
26	Understanding cooperativity in human p450 mediated drug-drug interactions. <i>Drug Metabolism Reviews</i> , 2007 , 39, 567-79	7	20
25	The ferric-hydroperoxo complex of chloroperoxidase. <i>Biochemical and Biophysical Research Communications</i> , 2007 , 363, 954-8	3.4	28
24	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
23	Structure and chemistry of cytochrome P450. <i>Chemical Reviews</i> , 2005 , 105, 2253-77	68.1	1535
22	Thermotropic phase transition in soluble nanoscale lipid bilayers. <i>Journal of Physical Chemistry B</i> , 2005 , 109, 15580-8	3.4	137
21	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
20	Molecular dynamics simulations of discoidal bilayers assembled from truncated human lipoproteins. <i>Biophysical Journal</i> , 2005 , 88, 548-56	2.9	106
19	Structure and Chemistry of Cytochrome P450. <i>ChemInform</i> , 2005 , 36, no		1
18	Activation of Molecular Oxygen by Cytochrome P450 2005 , 149-182		34
17	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
16	Directed self-assembly of monodisperse phospholipid bilayer Nanodiscs with controlled size. <i>Journal of the American Chemical Society</i> , 2004 , 126, 3477-87	16.4	785
15	Haem-oxygen reactive intermediates: catalysis by the two-step. <i>Biochemical Society Transactions</i> , 2003 , 31, 516-9	5.1	17
14	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
13	Mechanistic enzymology of oxygen activation by the cytochromes P450. <i>Drug Metabolism Reviews</i> , 2002 , 34, 691-708	7	67
12	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
11	Cryoradiolysis for the study of P450 reaction intermediates. <i>Methods in Enzymology</i> , 2002 , 357, 103-15	1.7	28
10	Cryogenic absorption spectra of hydroperoxo-ferric heme oxygenase, the active intermediate of enzymatic heme oxygenation. <i>FEBS Letters</i> , 2002 , 532, 203-6	3.8	31

9	Characterization of the oxygenated intermediate of the thermophilic cytochrome P450 CYP119. <i>Journal of Inorganic Biochemistry</i> , 2001 , 87, 215-26	4.2	48
8	Cryotrapped reaction intermediates of cytochrome p450 studied by radiolytic reduction with phosphorus-32. <i>Journal of Biological Chemistry</i> , 2001 , 276, 11648-52	5.4	90
7	The kinetics of the reaction between NO and O2 as studied by a novel approach. <i>Biophysical Chemistry</i> , 1999 , 76, 63-72	3.5	12
6	Thermodynamic stability of the asymmetric doubly-ligated hemoglobin tetramer (alpha+CNbeta+CN)(alphabeta): methodological and mechanistic issues. <i>Biochemistry</i> , 1997 , 36, 10822-9 ^{3.2}		22
5	Functional heterogeneity of the alpha and beta subunits in the association reaction between hemoglobin and carbon monoxide. <i>Biophysical Chemistry</i> , 1996 , 61, 169-76	3.5	3
4	Thermal stability of proteins in intermolecular complexes. <i>Biophysical Chemistry</i> , 1992 , 44, 71-5	3.5	5
3	Study of the structure of streptokinase conjugates with a hydrophilic vinylpyrrolidone copolymer. <i>Biophysical Chemistry</i> , 1990 , 38, 1-10	3.5	3
2	Synthesis, and conformational and biological study of 2-D-Ala,5-des-Met-enkephalin hydrazide modified at the carboxylic end by poly-N-vinylimidazole. <i>Biopolymers</i> , 1987 , 26, 1489-98	2.2	2
1	Cytochrome P450 Monooxygenases, Chemistry of1		