

# Gianfranco F Gilardi

## List of Publications by Year in descending order

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170  
papers

4,806  
citations

76326

40  
h-index

133252

59  
g-index

177  
all docs

177  
docs citations

177  
times ranked

4328  
citing authors

#	ARTICLE	IF	CITATIONS
1	Multi-Enzymatic Cascade Reactions for the Synthesis of <i>cis,cis</i> -Muconic Acid. <i>Advanced Synthesis and Catalysis</i> , 2022, 364, 114-123.	4.3	7
2	Assessment of Five Pesticides as Endocrine-Disrupting Chemicals: Effects on Estrogen Receptors and Aromatase. <i>International Journal of Environmental Research and Public Health</i> , 2022, 19, 1959.	2.6	7
3	Molecular Lego of Human Cytochrome P450: The Key Role of Heme Domain Flexibility for the Activity of the Chimeric Proteins. <i>International Journal of Molecular Sciences</i> , 2022, 23, 3618.	4.1	5
4	EPR characterization of the heme domain of a self-sufficient cytochrome P450 (CYP116B5). <i>Journal of Inorganic Biochemistry</i> , 2022, 231, 111785.	3.5	5
5	CYP116B5hd, a self-sufficient P450 cytochrome: A dataset of its electronic and geometrical properties. <i>Data in Brief</i> , 2022, 42, 108195.	1.0	2
6	Molecular and Structural Evolution of Cytochrome P450 Aromatase. <i>International Journal of Molecular Sciences</i> , 2021, 22, 631.	4.1	14
7	N- and S-oxygenation activity of truncated human flavin-containing monooxygenase 3 and its common polymorphic variants. <i>Archives of Biochemistry and Biophysics</i> , 2021, 697, 108663.	3.0	8
8	Editorial: Special Issue on "Flavin Monooxygenases". <i>Catalysts</i> , 2021, 11, 69.	3.5	0
9	Self-Sufficient Class VII Cytochromes P450: From Full-Length Structure to Synthetic Biology Applications. <i>Trends in Biotechnology</i> , 2021, 39, 1184-1207.	9.3	27
10	First Report of Powdery Mildew of <i>Salvia nemorosa</i> Caused by <i>Golovinomyces biocellatus</i> in Italy. <i>Plant Disease</i> , 2021, 105, 494.	1.4	1
11	A safety cap protects hydrogenase from oxygen attack. <i>Nature Communications</i> , 2021, 12, 756.	12.8	42
12	Polymorphism on human aromatase affects protein dynamics and substrate binding: spectroscopic evidence. <i>Biology Direct</i> , 2021, 16, 8.	4.6	2
13	Engineered human CYP2C9 and its main polymorphic variants for bioelectrochemical measurements of catalytic response. <i>Bioelectrochemistry</i> , 2021, 138, 107729.	4.6	20
14	Improving sustainable hydrogen production from green waste: [FeFe]-hydrogenases quantitative gene expression RT-qPCR analysis in presence of autochthonous consortia. <i>Biotechnology for Biofuels</i> , 2021, 14, 182.	6.2	5
15	Human flavin-containing monooxygenase 1 and its long-sought hydroperoxyflavin intermediate. <i>Biochemical Pharmacology</i> , 2021, 193, 114763.	4.4	9
16	Synthesis of $\beta$ -Hydroxy Fatty Acids from Fatty Acids by Intermediate $\beta$ -Chlorination with TCCA under Solvent-Free Conditions: A Way to Valorization of Waste Fat Biomasses. <i>ACS Omega</i> , 2021, 6, 31901-31906.	3.5	3
17	Drug Metabolism: Other Phase I Enzymes. , 2021, , .		0
18	Peroxide-driven catalysis of the heme domain of <i>A. radioresistens</i> cytochrome P450 116B5 for sustainable aromatic rings oxidation and drug metabolites production. <i>New Biotechnology</i> , 2020, 54, 71-79.	4.4	20

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19	Expression and role of CYP505A1 in pathogenicity of <i>Fusarium oxysporum</i> f. sp. <i>lactucae</i> . <i>Biochimica Et Biophysica Acta - Proteins and Proteomics</i> , 2020, 1868, 140268.	2.3	7
20	Differential effects of variations in human P450 oxidoreductase on the aromatase activity of CYP19A1 polymorphisms R264C and R264H. <i>Journal of Steroid Biochemistry and Molecular Biology</i> , 2020, 196, 105507.	2.5	17
21	Effector role of cytochrome P450 reductase for androstenedione binding to human aromatase. <i>International Journal of Biological Macromolecules</i> , 2020, 164, 510-517.	7.5	12
22	Chimeric cytochrome P450 3A4 used for in vitro prediction of food-drug interactions. <i>Biotechnology and Applied Biochemistry</i> , 2020, 67, 541-548.	3.1	2
23	Molecular Basis for Endocrine Disruption by Pesticides Targeting Aromatase and Estrogen Receptor. <i>International Journal of Environmental Research and Public Health</i> , 2020, 17, 5664.	2.6	29
24	Ligand stabilization and effect on unfolding by polymorphism in human flavin-containing monooxygenase 3. <i>International Journal of Biological Macromolecules</i> , 2020, 162, 1484-1493.	7.5	10
25	Biochemical features of dye-decolorizing peroxidases: Current impact on lignin degradation. <i>Biotechnology and Applied Biochemistry</i> , 2020, 67, 751-759.	3.1	38
26	Basic and applied science at the time of COVID-19. <i>FEBS Letters</i> , 2020, 594, 2933-2934.	2.8	1
27	Production of drug metabolites by human FMO3 in <i>Escherichia coli</i> . <i>Microbial Cell Factories</i> , 2020, 19, 74.	4.0	7
28	Activation of RSK by phosphomimetic substitution in the activation loop is prevented by structural constraints. <i>Scientific Reports</i> , 2020, 10, 591.	3.3	10
29	Natural Compounds as Pharmaceuticals: The Key Role of Cytochromes P450 Reactivity. <i>Trends in Biochemical Sciences</i> , 2020, 45, 511-525.	7.5	70
30	Crystal structure of bacterial CYP116B5 heme domain: New insights on class VII P450s structural flexibility and peroxxygenase activity. <i>International Journal of Biological Macromolecules</i> , 2019, 140, 577-587.	7.5	23
31	Uncoupled human flavin-containing monooxygenase 3 releases superoxide radical in addition to hydrogen peroxide. <i>Free Radical Biology and Medicine</i> , 2019, 145, 250-255.	2.9	14
32	A direct time-based ITC approach for substrate turnover measurements demonstrated on human FMO3. <i>Chemical Communications</i> , 2019, 55, 6217-6220.	4.1	11
33	Enzymatically Produced Trimethylamine N-Oxide: Conserving It or Eliminating It. <i>Catalysts</i> , 2019, 9, 1028.	3.5	9
34	Influence of different biological control agents and compost on total and nitrification-driven microbial communities at rhizosphere and soil level in a lettuce - <i>Fusarium oxysporum</i> f. sp. <i>lactucae</i> pathosystem. <i>Journal of Applied Microbiology</i> , 2019, 126, 905-918.	3.1	25
35	First Report of <i>Alternaria alternata</i> on <i>Campanula rapunculoides</i> in Italy. <i>Plant Disease</i> , 2019, 103, 368.	1.4	3
36	Conversion of Natural Products from Renewable Resources in Pharmaceuticals by Cytochromes P450. , 2019, , 603-642.		0

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37	Editorial to the Special Issue: "Biochemistry of Protein-Protein and Protein-Lipid Interactions: Applications to Biotechnology", <i>Biotechnology and Applied Biochemistry</i> , 2018, 65, 7-8.	3.1	0
38	Identification of endocrine disrupting chemicals acting on human aromatase. <i>Biochimica Et Biophysica Acta - Proteins and Proteomics</i> , 2018, 1866, 88-96.	2.3	27
39	Modulation of the interaction between human P450 3A4 and B. megaterium reductase via engineered loops. <i>Biochimica Et Biophysica Acta - Proteins and Proteomics</i> , 2018, 1866, 116-125.	2.3	14
40	Working at the membrane interface: Ligand-induced changes in dynamic conformation and oligomeric structure in human aromatase. <i>Biotechnology and Applied Biochemistry</i> , 2018, 65, 46-53.	3.1	16
41	Human cytomegalovirus US21 protein is a viroporin that modulates calcium homeostasis and protects cells against apoptosis. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2018, 115, E12370-E12377.	7.1	24
42	Binding of methimazole and NADP(H) to human FMO3: In vitro and in silico studies. <i>International Journal of Biological Macromolecules</i> , 2018, 118, 460-468.	7.5	13
43	Flavin-Containing Monooxygenase 3 Polymorphic Variants Significantly Affect Clearance of Tamoxifen and Clomiphene. <i>Basic and Clinical Pharmacology and Toxicology</i> , 2018, 123, 687-691.	2.5	13
44	The Cranberry Extract Oximacro <sup>®</sup> Exerts in vitro Virucidal Activity Against Influenza Virus by Interfering With Hemagglutinin. <i>Frontiers in Microbiology</i> , 2018, 9, 1826.	3.5	40
45	Cytochromes P450 Redox Activity. , 2018, , 90-109.		2
46	Influence of inter-domain dynamics and surrounding environment flexibility on the direct electrochemistry and electrocatalysis of self-sufficient cytochrome P450 3A4-BMR chimeras. <i>Journal of Inorganic Biochemistry</i> , 2018, 188, 9-17.	3.5	12
47	Identification of human flavin-containing monooxygenase 3 substrates by a colorimetric screening assay. <i>Analytical Biochemistry</i> , 2017, 522, 46-52.	2.4	12
48	Bioelectrochemical profiling of two common polymorphic variants of human FMO3 in presence of graphene oxide. <i>Electrochimica Acta</i> , 2017, 228, 611-618.	5.2	9
49	Catalytically self-sufficient cytochromes P450 for green production of fine chemicals. <i>Rendiconti Lincei</i> , 2017, 28, 169-181.	2.2	19
50	[FeFe]-hydrogenases as biocatalysts in bio-hydrogen production. <i>Rendiconti Lincei</i> , 2017, 28, 183-194.	2.2	10
51	Chemical applications of Class B flavoprotein monooxygenases. <i>Rendiconti Lincei</i> , 2017, 28, 195-206.	2.2	15
52	Inactivation mechanism of N61S mutant of human FMO3 towards trimethylamine. <i>Scientific Reports</i> , 2017, 7, 14668.	3.3	24
53	Heme iron centers in cytochrome P450: structure and catalytic activity. <i>Rendiconti Lincei</i> , 2017, 28, 159-167.	2.2	15
54	Impact of R264C and R264H polymorphisms in human aromatase function. <i>Journal of Steroid Biochemistry and Molecular Biology</i> , 2017, 167, 23-32.	2.5	18

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55	Effect of sildenafil on human aromatase activity: From in vitro structural analysis to catalysis and inhibition in cells. <i>Journal of Steroid Biochemistry and Molecular Biology</i> , 2017, 165, 438-447.	2.5	9
56	Human Cytochrome P450 3A4 as a Biocatalyst: Effects of the Engineered Linker in Modulation of Coupling Efficiency in 3A4-BMR Chimeras. <i>Frontiers in Pharmacology</i> , 2017, 8, 121.	3.5	25
57	Characterization of a new Baeyer-Villiger monooxygenase and conversion to a solely N-or S-oxidizing enzyme by a single R292 mutation. <i>Biochimica Et Biophysica Acta - Proteins and Proteomics</i> , 2016, 1864, 1177-1187.	2.3	19
58	Isolation and characterization of a new [FeFe]-hydrogenase from <i>Clostridium perfringens</i> . <i>Biotechnology and Applied Biochemistry</i> , 2016, 63, 305-311.	3.1	8
59	Electron transfer and H <sub>2</sub> evolution in hybrid systems based on [FeFe]-hydrogenase anchored on modified TiO <sub>2</sub> . <i>International Journal of Hydrogen Energy</i> , 2016, 41, 10547-10556.	7.1	19
60	Biohydrogen and biomethane production sustained by untreated matrices and alternative application of compost waste. <i>Waste Management</i> , 2016, 56, 151-157.	7.4	23
61	Human flavin-containing monooxygenase 3: Structural mapping of gene polymorphisms and insights into molecular basis of drug binding. <i>Gene</i> , 2016, 593, 91-99.	2.2	18
62	Oxygen Stability in the New [FeFe]-Hydrogenase from <i>Clostridium beijerinckii</i> SM10 (CbA5H). <i>Biochemistry</i> , 2016, 55, 5897-5900.	2.5	61
63	Enzyme-substrate matching in biocatalysis: in silico studies to predict substrate preference of ten putative ene-reductases from <i>Mucor circinelloides</i> MUT44. <i>Journal of Molecular Catalysis B: Enzymatic</i> , 2016, 131, 94-100.	1.8	6
64	Graphene oxide-mediated electrochemistry of glucose oxidase on glassy carbon electrodes. <i>Biotechnology and Applied Biochemistry</i> , 2016, 63, 157-162.	3.1	10
65	Subtle structural changes in the Asp251Gly/Gln307His P450 BM3 mutant responsible for new activity toward diclofenac, tolbutamide and ibuprofen. <i>Archives of Biochemistry and Biophysics</i> , 2016, 602, 106-115.	3.0	20
66	The effect of a C298D mutation in CaHydA [FeFe]-hydrogenase: Insights into the protein-metal cluster interaction by EPR and FTIR spectroscopic investigation. <i>Biochimica Et Biophysica Acta - Bioenergetics</i> , 2016, 1857, 98-106.	1.0	19
67	<i>Escherichia coli</i> Overexpressing a Baeyer-Villiger Monooxygenase from <i>Acinetobacter radioresistens</i> Becomes Resistant to Imipenem. <i>Antimicrobial Agents and Chemotherapy</i> , 2016, 60, 64-74.	3.2	23
68	Layer-by-Layer Assembly of Supported Lipid Bilayer Poly-L-Lysine Multilayers. <i>Biomacromolecules</i> , 2016, 17, 324-335.	5.4	46
69	EXTRACTION OF BIOCHEMICALS FROM THE WINE INDUSTRY BY-PRODUCTS AND THEIR VALORIZATION. <i>Environmental Engineering and Management Journal</i> , 2016, 15, 2049-2056.	0.6	0
70	Atypical effect of temperature tuning on the insertion of the catalytic iron-sulfur center in a recombinant [FeFe]-hydrogenase. <i>Protein Science</i> , 2015, 24, 2090-2094.	7.6	5
71	Human Flavin-Containing Monooxygenase 3 on Graphene Oxide for Drug Metabolism Screening. <i>Analytical Chemistry</i> , 2015, 87, 2974-2980.	6.5	21
72	Bioelectrochemistry as a tool for the study of aromatization of steroids by human aromatase. <i>Electrochemistry Communications</i> , 2015, 52, 25-28.	4.7	16

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73	Electrochemistry of <i>Canis familiaris</i> cytochrome P450 2D15 with gold nanoparticles: An alternative to animal testing in drug discovery. <i>Bioelectrochemistry</i> , 2015, 105, 110-116.	4.6	9
74	<sc>CYP116B5</sc>: a new class <sc>VII</sc> catalytically self-sufficient cytochrome <sc>P</sc>450 from <sc>i>A</i></sc> <sc>i>cinetobacter radioresistens</i> that enables growth on alkanes. <i>Molecular Microbiology</i> , 2015, 95, 539-554.	2.5	35
75	Hydrogen production at high Faradaic efficiency by a bio-electrode based on TiO <sub>2</sub> adsorption of a new [FeFe]-hydrogenase from <i>Clostridium perfringens</i> . <i>Bioelectrochemistry</i> , 2015, 106, 258-262.	4.6	27
76	Evidence for an Elevated Aspartate pK in the Active Site of Human Aromatase. <i>Journal of Biological Chemistry</i> , 2015, 290, 1186-1196.	3.4	54
77	Electrochemical Detection of Human Cytochrome P450 2A6 Inhibition: A Step toward Reducing Dependence on Smoking. <i>Analytical Chemistry</i> , 2014, 86, 2760-2766.	6.5	13
78	Expression of different types of [FeFe]-hydrogenase genes in bacteria isolated from a population of a bio-hydrogen pilot-scale plant. <i>International Journal of Hydrogen Energy</i> , 2014, 39, 9018-9027.	7.1	37
79	Chimeric <sc>P</sc>450 enzymes: Activity of artificial redox fusions driven by different reductases for biotechnological applications. <i>Biotechnology and Applied Biochemistry</i> , 2013, 60, 102-110.	3.1	60
80	Structural Basis for the Functional Roles of Critical Residues in Human Cytochrome P450 Aromatase. <i>Biochemistry</i> , 2013, 52, 5821-5829.	2.5	77
81	Human aromatase: Perspectives in biochemistry and biotechnology. <i>Biotechnology and Applied Biochemistry</i> , 2013, 60, 92-101.	3.1	49
82	Hydroxylation of non-substituted polycyclic aromatic hydrocarbons by cytochrome P450 BM3 engineered by directed evolution. <i>Journal of Inorganic Biochemistry</i> , 2013, 120, 1-7.	3.5	31
83	Cytochrome P450 biotechnology. <i>Biotechnology and Applied Biochemistry</i> , 2013, 60, 1-1.	3.1	1
84	A Rapid Screening for Cytochrome P450 Catalysis on New Chemical Entities: Cytochrome P450 BM3 and 1,2,5-Oxadiazole Derivatives. <i>Journal of Biomolecular Screening</i> , 2013, 18, 211-218.	2.6	6
85	Laser-written nanoporous silicon diffraction gratings for biosensors. <i>Applied Optics</i> , 2013, 52, 8802.	1.8	1
86	Effect of Human Flavin-Containing Monooxygenase 3 Polymorphism on the Metabolism of Aurora Kinase Inhibitors. <i>International Journal of Molecular Sciences</i> , 2013, 14, 2707-2716.	4.1	29
87	Dynamics and Flexibility of Human Aromatase Probed by FTIR and Time Resolved Fluorescence Spectroscopy. <i>PLoS ONE</i> , 2013, 8, e82118.	2.5	28
88	Improvement of Biocatalysts for Industrial and Environmental Purposes by Saturation Mutagenesis. <i>Biomolecules</i> , 2013, 3, 778-811.	4.0	16
89	Entrapment of human flavin-containing monooxygenase 3 in the presence of gold nanoparticles: TEM, FTIR and electrocatalysis. <i>Biochimica Et Biophysica Acta - General Subjects</i> , 2012, 1820, 2072-2078.	2.4	19
90	Toward reduction in animal sacrifice for drugs: Molecular modeling of <i>Macaca fascicularis</i> P450 2C20 for virtual screening of <i>Homo sapiens</i> P450 2C8 substrates. <i>Biotechnology and Applied Biochemistry</i> , 2012, 59, 479-489.	3.1	4

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91	Iron-based redox centres of reductase and oxygenase components of phenol hydroxylase from <i>A. radioresistens</i> : a redox chain working at highly positive redox potentials. <i>Metallomics</i> , 2012, 4, 72-77.	2.4	2
92	Fluorescence detection of ligand binding to labeled cytochrome P450BM3. <i>Dalton Transactions</i> , 2012, 41, 2018-2025.	3.3	13
93	Optimization of the Bacterial Cytochrome P450 BM3 System for the Production of Human Drug Metabolites. <i>International Journal of Molecular Sciences</i> , 2012, 13, 15901-15924.	4.1	80
94	Identification of a novel <i>Bacteroides</i> monooxygenase from <i>Acinetobacter radioresistens</i> : close relationship to the <i>Mycobacterium tuberculosis</i> prodrug activator <i>EtaA</i> . <i>Microbial Biotechnology</i> , 2012, 5, 700-716.	4.2	31
95	Engineering <i>Macaca fascicularis</i> cytochrome P450 2C20 to reduce animal testing for new drugs. <i>Journal of Inorganic Biochemistry</i> , 2012, 117, 277-284.	3.5	16
96	Identification of Mutant Asp251Gly/Gln307His of Cytochrome P450 BM3 for the Generation of Metabolites of Diclofenac, Ibuprofen and Tolbutamide. <i>Chemistry - A European Journal</i> , 2012, 18, 3582-3588.	3.3	28
97	In vitro drug metabolism by C-terminally truncated human flavin-containing monooxygenase 3. <i>Biochemical Pharmacology</i> , 2012, 83, 551-558.	4.4	40
98	Drug-drug interactions and cooperative effects detected in electrochemically driven human cytochrome P450 3A4. <i>Bioelectrochemistry</i> , 2012, 86, 87-91.	4.6	48
99	Site Saturation Mutagenesis Demonstrates a Central Role for Cysteine 298 as Proton Donor to the Catalytic Site in CaHydA [FeFe]-Hydrogenase. <i>PLoS ONE</i> , 2012, 7, e48400.	2.5	55
100	Direct electrochemistry of an [FeFe]-hydrogenase on a TiO <sub>2</sub> Electrode. <i>Chemical Communications</i> , 2011, 47, 10566.	4.1	49
101	Enzyme-Based Amperometric Platform to Determine the Polymorphic Response in Drug Metabolism by Cytochromes P450. <i>Analytical Chemistry</i> , 2011, 83, 2179-2186.	6.5	46
102	A New Standardized Electrochemical Array for Drug Metabolic Profiling with Human Cytochromes P450. <i>Analytical Chemistry</i> , 2011, 83, 3831-3839.	6.5	45
103	Direct spectroscopic evidence for binding of anastrozole to the iron heme of human aromatase. Peering into the mechanism of aromatase inhibition. <i>Chemical Communications</i> , 2011, 47, 10737.	4.1	38
104	Turin special issue: Biochemistry for tomorrow's medicine. <i>FEBS Letters</i> , 2011, 585, 1503-1503.	2.8	0
105	P450-based porous silicon biosensor for arachidonic acid detection. <i>Biosensors and Bioelectronics</i> , 2011, 28, 320-325.	10.1	15
106	Understanding uncoupling in the multiredox centre P450 3A4-BMR model system. <i>Journal of Biological Inorganic Chemistry</i> , 2011, 16, 109-116.	2.6	25
107	Breakthrough in P450 bioelectrochemistry and future perspectives. <i>Biochimica Et Biophysica Acta - Proteins and Proteomics</i> , 2011, 1814, 237-248.	2.3	108
108	Electro-catalysis by immobilised human flavin-containing monooxygenase isoform 3 (hFMO3). <i>Analytical and Bioanalytical Chemistry</i> , 2010, 398, 1403-1409.	3.7	19

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109	An Electrochemical Microfluidic Platform for Human P450 Drug Metabolism Profiling. <i>Analytical Chemistry</i> , 2010, 82, 10222-10227.	6.5	48
110	Control of Human Cytochrome P450 2E1 Electrocatalytic Response as a Result of Unique Orientation on Gold Electrodes. <i>Analytical Chemistry</i> , 2010, 82, 5357-5362.	6.5	60
111	Direct Electrochemistry of Drug Metabolizing Human Flavin-Containing Monooxygenase: Electrochemical Turnover of Benzydamine and Tamoxifen. <i>Journal of the American Chemical Society</i> , 2010, 132, 458-459.	13.7	40
112	Characterisation of the electron transfer and complex formation between Flavodoxin from <i>D. vulgaris</i> and the haem domain of Cytochrome P450 BM3 from <i>B. megaterium</i> . <i>Biochimica Et Biophysica Acta - Bioenergetics</i> , 2009, 1787, 234-241.	1.0	6
113	Engineering heme binding sites in monomeric rop. <i>Journal of Biological Inorganic Chemistry</i> , 2009, 14, 497-505.	2.6	4
114	Redox properties and crystal structures of a <i>Desulfovibrio vulgaris</i> flavodoxin mutant in the monomeric and homodimeric forms. <i>Biochimica Et Biophysica Acta - Proteins and Proteomics</i> , 2009, 1794, 496-505.	2.3	4
115	Catalytic properties of catechol 1,2-dioxygenase from <i>Acinetobacter radioresistens</i> S13 immobilized on nanosponges. <i>Dalton Transactions</i> , 2009, , 6507.	3.3	49
116	Chemical control of downy mildew on lettuce and basil under greenhouse. <i>Communications in Agricultural and Applied Biological Sciences</i> , 2009, 74, 933-40.	0.0	3
117	Modulating the coupling efficiency of human cytochrome P450 CYP3A4 at electrode surfaces through protein engineering. <i>Electrochemistry Communications</i> , 2008, 10, 1744-1747.	4.7	62
118	P450 versus P420: Correlation between Cyclic Voltammetry and Visible Absorption Spectroscopy of the Immobilized Heme Domain of Cytochrome P450 BM3. <i>Journal of Physical Chemistry B</i> , 2008, 112, 14063-14068.	2.6	18
119	Protein and Electrode Engineering for the Covalent Immobilization of P450 BMP on Gold. <i>Analytical Chemistry</i> , 2008, 80, 8438-8446.	6.5	63
120	Effect of fungicides and of biocontrol agents against powdery mildew of turnip. <i>Communications in Agricultural and Applied Biological Sciences</i> , 2008, 73, 21-9.	0.0	3
121	Wild-type CYP102A1 as a biocatalyst: turnover of drugs usually metabolised by human liver enzymes. <i>Journal of Biological Inorganic Chemistry</i> , 2007, 12, 313-323.	2.6	58
122	Improving catalytic properties of P450 BM3 haem domain electrodes by molecular Lego. <i>Chemical Communications</i> , 2006, , 1289.	4.1	24
123	Engineering human cytochrome P450 enzymes into catalytically self-sufficient chimeras using molecular Lego. <i>Journal of Biological Inorganic Chemistry</i> , 2006, 11, 903-916.	2.6	70
124	Functional characterisation of an engineered multidomain human P450 2E1 by molecular Lego. <i>Journal of Biological Inorganic Chemistry</i> , 2005, 10, 842-853.	2.6	47
125	Proton-Coupled Electron Transfer of Flavodoxin Immobilized on Nanostructured Tin Dioxide Electrodes: Thermodynamics versus Kinetics Control of Protein Redox Function. <i>Journal of the American Chemical Society</i> , 2004, 126, 8001-8009.	13.7	72
126	Directed Evolution of Enzymes for Product Chemsitry. <i>ChemInform</i> , 2004, 35, no.	0.0	0



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127	Cyclic voltammetry and voltabsorptometry studies of redox proteins immobilised on nanocrystalline tin dioxide electrodes. <i>Bioelectrochemistry</i> , 2004, 63, 55-59.	4.6	39
128	Directed evolution of enzymes for product chemistry. <i>Natural Product Reports</i> , 2004, 21, 490.	10.3	36
129	Direct Electrochemistry of Immobilized Human Cytochrome P450 2E1. <i>Journal of the American Chemical Society</i> , 2004, 126, 5040-5041.	13.7	134
130	The oxygenase component of phenol hydroxylase from <i>Acinetobacter radioresistens</i> S13. <i>FEBS Journal</i> , 2003, 270, 2244-2253.	0.2	37
131	Engineering redox functions in a nucleic acid binding protein. <i>Chemical Communications</i> , 2003, , 356-357.	4.1	12
132	Tuning the Reduction Potential of Engineered Cytochrome c-553. <i>Biochemistry</i> , 2002, 41, 8718-8724.	2.5	17
133	Biotechnology: Paper Alert. <i>Current Opinion in Biotechnology</i> , 2002, 13, 523-530.	6.6	0
134	High throughput assay for cytochrome P450 BM3 for screening libraries of substrates and combinatorial mutants. <i>Biosensors and Bioelectronics</i> , 2002, 17, 119-131.	10.1	74
135	Comparison of the refined crystal structures of wild-type (1.34Å) flavodoxin from <i>Desulfovibrio vulgaris</i> and the S35C mutant (1.44Å) at 100K. <i>Acta Crystallographica Section D: Biological Crystallography</i> , 2002, 58, 1787-1792.	2.5	14
136	Molecular Lego: design of molecular assemblies of P450 enzymes for nanobiotechnology. <i>Biosensors and Bioelectronics</i> , 2002, 17, 133-145.	10.1	98
137	Engineering a soluble, catalytically self-sufficient human P450 for nanobiotechnology. <i>Biochemical Society Transactions</i> , 2001, 29, A38-A38.	3.4	1
138	Manipulating redox systems: application to nanotechnology. <i>Trends in Biotechnology</i> , 2001, 19, 468-476.	9.3	111
139	Engineering and design in the bioelectrochemistry of metalloproteins. <i>Current Opinion in Structural Biology</i> , 2001, 11, 491-499.	5.7	72
140	Rational Design of P450 Enzymes for Biotechnology. <i>Focus on Biotechnology</i> , 2001, , 71-104.	0.4	5
141	PROTEIN ADSORPTION ON NANOCRYSTALLINE TiO2 FILMS: A NOVEL IMMOBILISATION STRATEGY FOR BIOELECTROCHEMISTRY AND BIOANALYTICAL DEVICES. <i>Biochemical Society Transactions</i> , 2000, 28, A44-A44.	3.4	0
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