Gianfranco F Gilardi

List of Publications by Year
in descending order

170	4,806	76326	133252
papers	citations	40 h-index	59 g-index

177	177	177	4328
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	Protein Adsorption on Nanocrystalline TiO2Films:Â An Immobilization Strategy for Bioanalytical Devices. Analytical Chemistry, 1998, 70, 5111-5113.	6.5	195
2	Engineering the Maltose Binding Protein for Reagentless Fluorescence Sensing. Analytical Chemistry, 1994, 66, 3840-3847.	6.5	154
3	Engineering type 1 copper sites in proteins. FEBS Letters, 1993, 325, 39-48.	2.8	148
4	Direct Electrochemistry of Immobilized Human Cytochrome P450 2E1. Journal of the American Chemical Society, 2004, 126, 5040-5041.	13.7	134
5	Manipulating redox systems: application to nanotechnology. Trends in Biotechnology, 2001, 19, 468-476.	9.3	111
6	Breakthrough in P450 bioelectrochemistry and future perspectives. Biochimica Et Biophysica Acta - Proteins and Proteomics, 2011, 1814, 237-248.	2.3	108
7	Molecular Lego: design of molecular assemblies of P450 enzymes for nanobiotechnology. Biosensors and Bioelectronics, 2002, 17, 133-145.	10.1	98
8	Carbon-13 CP/MAS solid-state NMR and FT-IR spectroscopy of wood cell wall biodegradation. Enzyme and Microbial Technology, 1995, 17, 268-275.	3.2	95
9	Optimization of the Bacterial Cytochrome P450 BM3 System for the Production of Human Drug Metabolites. International Journal of Molecular Sciences, 2012, 13, 15901-15924.	4.1	80
10	Structural Basis for the Functional Roles of Critical Residues in Human Cytochrome P450 Aromatase. Biochemistry, 2013, 52, 5821-5829.	2.5	77
11	High throughput assay for cytochrome P450 BM3 for screening libraries of substrates and combinatorial mutants. Biosensors and Bioelectronics, 2002, 17, 119-131.	10.1	74
12	Engineering and design in the bioelectrochemistry of metalloproteins. Current Opinion in Structural Biology, 2001, 11, 491-499.	5.7	72
13	Proton-Coupled Electron Transfer of Flavodoxin Immobilized on Nanostructured Tin Dioxide Electrodes:â€‰ Thermodynamics versus Kinetics Control of Protein Redox Function. Journal of the American Chemical Society, 2004, 126, 8001-8009.	13.7	72
14	Engineering human cytochrome P450 enzymes into catalytically self-sufficient chimeras using molecular Lego. Journal of Biological Inorganic Chemistry, 2006, 11, 903-916.	2.6	70
15	Natural Compounds as Pharmaceuticals: The Key Role of Cytochromes P450 Reactivity. Trends in Biochemical Sciences, 2020, 45, 511-525.	7.5	70
16	Unique environment of Trp48 in Pseudomonas aeruginosa azurin as probed by site-directed mutagenesis and dynamic fluorescence spectroscopy. Biochemistry, 1994, 33, 1425-1432.	2.5	65
17	Protein and Electrode Engineering for the Covalent Immobilization of P450 BMP on Gold. Analytical Chemistry, 2008, 80, 8438-8446.	6.5	63
18	Modulating the coupling efficiency of human cytochrome P450 CYP3A4 at electrode surfaces through protein engineering. Electrochemistry Communications, 2008, 10, 1744-1747.	4.7	62

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19	Oxygen Stability in the New [FeFe]-Hydrogenase from Clostridium beijerinckii SM10 (CbA5H). Biochemistry, 2016, 55, 5897-5900.	2.5	61
20	Control of Human Cytochrome P450 2E1 Electrocatalytic Response as a Result of Unique Orientation on Gold Electrodes. Analytical Chemistry, 2010, 82, 5357-5362.	6.5	60
21	Chimeric <scp>P</scp>450 enzymes: Activity of artificial redox fusions driven by different reductases for biotechnological applications. Biotechnology and Applied Biochemistry, 2013, 60, 102-110.	3.1	60
22	Wild-type CYP102A1 as a biocatalyst: turnover of drugs usually metabolised by human liver enzymes. Journal of Biological Inorganic Chemistry, 2007, 12, 313-323.	2.6	58
23	Site Saturation Mutagenesis Demonstrates a Central Role for Cysteine 298 as Proton Donor to the Catalytic Site in CaHydA [FeFe]-Hydrogenase. PLoS ONE, 2012, 7, e48400.	2.5	55
24	Evidence for an Elevated Aspartate pK in the Active Site of Human Aromatase. Journal of Biological Chemistry, 2015, 290, 1186-1196.	3.4	54
25	Structure-function correlation of intramolecular electron transfer in wild type and single-site mutated azurins. Chemical Physics, 1996, 204, 271-277.	1.9	51
26	Catalytic properties of catechol 1,2-dioxygenase from Acinetobacter radioresistens S13 immobilized on nanosponges. Dalton Transactions, 2009, , 6507.	3.3	49
27	Direct electrochemistry of an [FeFe]-hydrogenase on a TiO2 Electrode. Chemical Communications, 2011, 47, 10566.	4.1	49
28	Human aromatase: Perspectives in biochemistry and biotechnology. Biotechnology and Applied Biochemistry, 2013, 60, 92-101.	3.1	49
29	An Electrochemical Microfluidic Platform for Human P450 Drug Metabolism Profiling. Analytical Chemistry, 2010, 82, 10222-10227.	6.5	48
30	Drugâ€“drug interactions and cooperative effects detected in electrochemically driven human cytochrome P450 3A4. Bioelectrochemistry, 2012, 86, 87-91.	4.6	48
31	Engineering artificial redox chains by molecular â€˜Legoâ€™. Faraday Discussions, 2000, 116, 135-153.	3.2	47
32	Functional characterisation of an engineered multidomain human P450 2E1 by molecular Lego. Journal of Biological Inorganic Chemistry, 2005, 10, 842-853.	2.6	47
33	Spectroscopic properties of an engineered maltose binding protein. Protein Engineering, Design and Selection, 1997, 10, 479-486.	2.1	46
34	The effect of pressure and guanidine hydrochloride on azurins mutated in the hydrophobic core. FEBS Journal, 1999, 265, 619-626.	0.2	46
35	Enzyme-Based Amperometric Platform to Determine the Polymorphic Response in Drug Metabolism by Cytochromes P450. Analytical Chemistry, 2011, 83, 2179-2186.	6.5	46
36	Layer-by-Layer Assembly of Supported Lipid Bilayer Poly-l-Lysine Multilayers. Biomacromolecules, 2016, 17, 324-335.	5.4	46

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37	A New Standardized Electrochemical Array for Drug Metabolic Profiling with Human Cytochromes P450. Analytical Chemistry, 2011, 83, 3831-3839.	6.5	45
38	Associative and colloidal behavior of lignin and implications for its biodegradation in vitro. Langmuir, 1993, 9, 1721-1726.	3.5	42
39	Phenol hydroxylase from Acinetobacter radioresistens is a multicomponent enzyme . Purification and characterization of the reductase moiety. FEBS Journal, 1999, 265, 549-555.	0.2	42
40	A safety cap protects hydrogenase from oxygen attack. Nature Communications, 2021, 12, 756.	12.8	42
41	Time-Resolved Fluorescence Study of Azurin Variants: Conformational Heterogeneity and Tryptophan Mobility. Biophysical Journal, 1998, 75, 2441-2450.	0.5	41
42	Backbone Dynamics of Azurin in Solution:Â Slow Conformational Change Associated with Deprotonation of Histidine 35â€. Biochemistry, 1999, 38, 12690-12697.	2.5	41
43	Direct Electrochemistry of Drug Metabolizing Human Flavin-Containing Monooxygenase: Electrochemical Turnover of Benzydamine and Tamoxifen. Journal of the American Chemical Society, 2010, 132, 458-459.	13.7	40
44	In vitro drug metabolism by C-terminally truncated human flavin-containing monooxygenase 3. Biochemical Pharmacology, 2012, 83, 551-558.	4.4	40
45	The Cranberry Extract OximacroÂ® Exerts in vitro Virucidal Activity Against Influenza Virus by Interfering With Hemagglutinin. Frontiers in Microbiology, 2018, 9, 1826.	3.5	40
46	Cyclic voltammetry and voltabsorptometry studies of redox proteins immobilised on nanocrystalline tin dioxide electrodes. Bioelectrochemistry, 2004, 63, 55-59.	4.6	39
47	Direct spectroscopic evidence for binding of anastrozole to the iron heme of human aromatase. Peering into the mechanism of aromatase inhibition. Chemical Communications, 2011, 47, 10737.	4.1	38
48	Biochemical features of dyeâ€decolorizing peroxidases: Current impact on lignin degradation. Biotechnology and Applied Biochemistry, 2020, 67, 751-759.	3.1	38
49	The oxygenase component of phenol hydroxylase from Acinetobacter radioresistens S13. FEBS Journal, 2003, 270, 2244-2253.	0.2	37
50	Expression of different types of [FeFe]-hydrogenase genes in bacteria isolated from a population of a bio-hydrogen pilot-scale plant. International Journal of Hydrogen Energy, 2014, 39, 9018-9027.	7.1	37
51	Directed evolution of enzymes for product chemistry. Natural Product Reports, 2004, 21, 490.	10.3	36
52	Mediated electrochemistry of peroxidasesâ€"effects of variations in protein and mediator structures. Biosensors and Bioelectronics, 1997, 12, 1191-1198.	10.1	35
53	<scp>CYP116B5</scp>: a new class <scp>VII</scp> catalytically selfâ€sufficient cytochrome <scp>P</scp>450 from <scp>A</scp>cinetobacter radioresistens that enables growth on alkanes. Molecular Microbiology, 2015, 95, 539-554.	2.5	35
54	X-ray Crystal Structure of the Two Site-specific Mutants Ile7Ser and Phe110Ser of Azurin fromPseudomonas aeruginosa. Journal of Molecular Biology, 1996, 255, 362-366.	4.2	34

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55	Identification of a novel <scp>B</scp>aeyerâ€<scp>V</scp>illiger monooxygenase from <scp>A</scp>cinetobacter radioresistens: close relationship to the <scp>M</scp>ycobacterium tuberculosis prodrug activator <scp>EtaA</scp>. Microbial Biotechnology, 2012, 5, 700-716.	4.2	31
56	Hydroxylation of non-substituted polycyclic aromatic hydrocarbons by cytochrome P450 BM3 engineered by directed evolution. Journal of Inorganic Biochemistry, 2013, 120, 1-7.	3.5	31
57	Effect of Human Flavin-Containing Monooxygenase 3 Polymorphism on the Metabolism of Aurora Kinase Inhibitors. International Journal of Molecular Sciences, 2013, 14, 2707-2716.	4.1	29
58	Molecular Basis for Endocrine Disruption by Pesticides Targeting Aromatase and Estrogen Receptor. International Journal of Environmental Research and Public Health, 2020, 17, 5664.	2.6	29
59	Identification of Mutant Asp251Gly/Gln307His of Cytochrome P450 BM3 for the Generation of Metabolites of Diclofenac, Ibuprofen and Tolbutamide. Chemistry - A European Journal, 2012, 18, 3582-3588.	3.3	28
60	Dynamics and Flexibility of Human Aromatase Probed by FTIR and Time Resolved Fluorescence Spectroscopy. PLoS ONE, 2013, 8, e82118.	2.5	28
61	Radical intermediates in veratryl alcohol oxidation by ligninase. NMR evidence. BBA - Proteins and Proteomics, 1990, 1041, 129-132.	2.1	27
62	Hydrogen production at high Faradaic efficiency by a bio-electrode based on TiO2 adsorption of a new [FeFe]-hydrogenase from Clostridium perfringens. Bioelectrochemistry, 2015, 106, 258-262.	4.6	27
63	Identification of endocrine disrupting chemicals acting on human aromatase. Biochimica Et Biophysica Acta - Proteins and Proteomics, 2018, 1866, 88-96.	2.3	27
64	Self-Sufficient Class VII Cytochromes P450: From Full-Length Structure to Synthetic Biology Applications. Trends in Biotechnology, 2021, 39, 1184-1207.	9.3	27
65	Understanding uncoupling in the multiredox centre P450 3A4â€“BMR model system. Journal of Biological Inorganic Chemistry, 2011, 16, 109-116.	2.6	25
66	Human Cytochrome P450 3A4 as a Biocatalyst: Effects of the Engineered Linker in Modulation of Coupling Efficiency in 3A4-BMR Chimeras. Frontiers in Pharmacology, 2017, 8, 121.	3.5	25
67	Influence of different biological control agents and compost on total and nitrification-driven microbial communities at rhizosphere and soil level in a lettuce -Fusarium oxysporumf. sp.lactucaepathosystem. Journal of Applied Microbiology, 2019, 126, 905-918.	3.1	25
68	Engineering multi-domain redox proteins containing flavodoxin as bio-transformer: preparatory studies by rational design. Biosensors and Bioelectronics, 1998, 13, 675-685.	10.1	24
69	Improving catalytic properties of P450 BM3 haem domain electrodes by molecular Lego. Chemical Communications, 2006, , 1289.	4.1	24
70	Inactivation mechanism of N61S mutant of human FMO3 towards trimethylamine. Scientific Reports, 2017, 7, 14668.	3.3	24
71	Human cytomegalovirus US21 protein is a viroporin that modulates calcium homeostasis and protects cells against apoptosis. Proceedings of the National Academy of Sciences of the United States of America, 2018, 115, E12370-E12377.	7.1	24
72	Biohydrogen and biomethane production sustained by untreated matrices and alternative application of compost waste. Waste Management, 2016, 56, 151-157.	7.4	23

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73	Escherichia coli Overexpressing a Baeyer-Villiger Monooxygenase from Acinetobacter radioresistens Becomes Resistant to Imipenem. Antimicrobial Agents and Chemotherapy, 2016, 60, 64-74.	3.2	23
74	Crystal structure of bacterial CYP116B5 heme domain: New insights on class VII P450s structural flexibility and peroxygenase activity. International Journal of Biological Macromolecules, 2019, 140, 577-587.	7.5	23
75	Probing the structure and mobility of Pseudomonas aeruginosa azurin by circular dichroism and dynamic fluorescence anisotropy. Protein Science, 1996, 5, 2248-2254.	7.6	22
76	Effects of protein-protein interactions on electron transfer: docking and electron transfer calculations for complexes between flavodoxin and c-type cytochromes. Journal of Biological Inorganic Chemistry, 1999, 4, 360-374.	2.6	21
77	Human Flavin-Containing Monooxygenase 3 on Graphene Oxide for Drug Metabolism Screening. Analytical Chemistry, 2015, 87, 2974-2980.	6.5	21
78	Charge transfer reactions and feedback control of lignin peroxidase by phenolic compounds: Significance in lignin degradation. Journal of Biotechnology, 1993, 30, 57-69.	3.8	20
79	Subtle structural changes in the Asp251Gly/Gln307His P450 BM3 mutant responsible for new activity toward diclofenac, tolbutamide and ibuprofen. Archives of Biochemistry and Biophysics, 2016, 602, 106-115.	3.0	20
80	Peroxide-driven catalysis of the heme domain of A. radioresistens cytochrome P450 116B5 for sustainable aromatic rings oxidation and drug metabolites production. New Biotechnology, 2020, 54, 71-79.	4.4	20
81	Engineered human CYP2C9 and its main polymorphic variants for bioelectrochemical measurements of catalytic response. Bioelectrochemistry, 2021, 138, 107729.	4.6	20
82	Electro-catalysis by immobilised human flavin-containing monooxygenase isoform 3 (hFMO3). Analytical and Bioanalytical Chemistry, 2010, 398, 1403-1409.	3.7	19
83	Entrapment of human flavin-containing monooxygenase 3 in the presence of gold nanoparticles: TEM, FTIR and electrocatalysis. Biochimica Et Biophysica Acta - General Subjects, 2012, 1820, 2072-2078.	2.4	19
84	Characterization of a new Baeyer-Villiger monooxygenase and conversion to a solely N-or S-oxidizing enzyme by a single R292 mutation. Biochimica Et Biophysica Acta - Proteins and Proteomics, 2016, 1864, 1177-1187.	2.3	19
85	Electron transfer and H2 evolution in hybrid systems based on [FeFe]-hydrogenase anchored on modified TiO2. International Journal of Hydrogen Energy, 2016, 41, 10547-10556.	7.1	19
86	The effect of a C298D mutation in CaHydA [FeFe]-hydrogenase: Insights into the protein-metal cluster interaction by EPR and FTIR spectroscopic investigation. Biochimica Et Biophysica Acta - Bioenergetics, 2016, 1857, 98-106.	1.0	19
87	Catalytically self-sufficient cytochromes P450 for green production of fine chemicals. Rendiconti Lincei, 2017, 28, 169-181.	2.2	19
88	Molecular recognition: design of a biosensor with genetically engineered azurin as redox mediator. Journal of Controlled Release, 1994, 29, 231-238.	9.9	18
89	P450 versus P420: Correlation between Cyclic Voltammetry and Visible Absorption Spectroscopy of the Immobilized Heme Domain of Cytochrome P450 BM3. Journal of Physical Chemistry B, 2008, 112, 14063-14068.	2.6	18
90	Human flavin-containing monooxygenase 3: Structural mapping of gene polymorphisms and insights into molecular basis of drug binding. Gene, 2016, 593, 91-99.	2.2	18

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91	Impact of R264C and R264H polymorphisms in human aromatase function. Journal of Steroid Biochemistry and Molecular Biology, 2017, 167, 23-32.	2.5	18
92	Resolution of the heterogeneous fluorescence in multi-tryptophan proteins : ascorbate oxidase. FEBS Journal, 1998, 257, 337-343.	0.2	17
93	Tuning the Reduction Potential of Engineered Cytochrome c-553. Biochemistry, 2002, 41, 8718-8724.	2.5	17
94	Differential effects of variations in human P450 oxidoreductase on the aromatase activity of CYP19A1 polymorphisms R264C and R264H. Journal of Steroid Biochemistry and Molecular Biology, 2020, 196, 105507.	2.5	17
95	Engineering Macaca fascicularis cytochrome P450 2C20 to reduce animal testing for new drugs. Journal of Inorganic Biochemistry, 2012, 117, 277-284.	3.5	16
96	Improvement of Biocatalysts for Industrial and Environmental Purposes by Saturation Mutagenesis. Biomolecules, 2013, 3, 778-811.	4.0	16
97	Bioelectrochemistry as a tool for the study of aromatization of steroids by human aromatase. Electrochemistry Communications, 2015, 52, 25-28.	4.7	16
98	Working at the membrane interface: Ligandâ€induced changes in dynamic conformation and oligomeric structure in human aromatase. Biotechnology and Applied Biochemistry, 2018, 65, 46-53.	3.1	16
99	Wide-line solid-state NMR of wood: Proton relaxation time measurements on cell walls biodegraded by white-rot and brown-rot fungi. Enzyme and Microbial Technology, 1994, 16, 676-682.	3.2	15
100	P450-based porous silicon biosensor for arachidonic acid detection. Biosensors and Bioelectronics, 2011, 28, 320-325.	10.1	15
101	Chemical applications of Class B flavoprotein monooxygenases. Rendiconti Lincei, 2017, 28, 195-206.	2.2	15
102	Heme iron centers in cytochrome P450: structure and catalytic activity. Rendiconti Lincei, 2017, 28, 159-167.	2.2	15
103	Comparison of the refined crystal structures of wild-type (1.34â€…Ã…) flavodoxin fromDesulfovibrio vulgarisand the S35C mutant (1.44â€…Ã…) at 100â€…K. Acta Crystallographica Section D: Biological Crystallography, 2002, 58, 1787-1792.	2.5	14
104	Modulation of the interaction between human P450 3A4 and B. megaterium reductase via engineered loops. Biochimica Et Biophysica Acta - Proteins and Proteomics, 2018, 1866, 116-125.	2.3	14
105	Uncoupled human flavin-containing monooxygenase 3 releases superoxide radical in addition to hydrogen peroxide. Free Radical Biology and Medicine, 2019, 145, 250-255.	2.9	14
106	Molecular and Structural Evolution of Cytochrome P450 Aromatase. International Journal of Molecular Sciences, 2021, 22, 631.	4.1	14
107	Fluorescence detection of ligand binding to labeled cytochrome P450BM3. Dalton Transactions, 2012, 41, 2018-2025.	3.3	13
108	Electrochemical Detection of Human Cytochrome P450 2A6 Inhibition: A Step toward Reducing Dependence on Smoking. Analytical Chemistry, 2014, 86, 2760-2766.	6.5	13

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109	Binding of methimazole and NADP(H) to human FMO3: In vitro and in silico studies. International Journal of Biological Macromolecules, 2018, 118, 460-468.	7.5	13
110	Flavinâ€Containing Monooxygenase 3 Polymorphic Variants Significantly Affect Clearance of Tamoxifen and Clomiphene. Basic and Clinical Pharmacology and Toxicology, 2018, 123, 687-691.	2.5	13
111	Engineering redox functions in a nucleic acid binding protein. Chemical Communications, 2003, , 356-357.	4.1	12
112	Identification of human flavin-containing monooxygenase 3 substrates by a colorimetric screening assay. Analytical Biochemistry, 2017, 522, 46-52.	2.4	12
113	Influence of inter-domain dynamics and surrounding environment flexibility on the direct electrochemistry and electrocatalysis of self-sufficient cytochrome P450 3A4-BMR chimeras. Journal of Inorganic Biochemistry, 2018, 188, 9-17.	3.5	12
114	Effector role of cytochrome P450 reductase for androstenedione binding to human aromatase. International Journal of Biological Macromolecules, 2020, 164, 510-517.	7.5	12
115	A direct time-based ITC approach for substrate turnover measurements demonstrated on human FMO3. Chemical Communications, 2019, 55, 6217-6220.	4.1	11
116	Graphene oxideâ€“mediated electrochemistry of glucose oxidase on glassy carbon electrodes. Biotechnology and Applied Biochemistry, 2016, 63, 157-162.	3.1	10
117	[FeFe]-hydrogenases as biocatalysts in bio-hydrogen production. Rendiconti Lincei, 2017, 28, 183-194.	2.2	10
118	Ligand stabilization and effect on unfolding by polymorphism in human flavin-containing monooxygenase 3. International Journal of Biological Macromolecules, 2020, 162, 1484-1493.	7.5	10
119	Activation of RSK by phosphomimetic substitution in the activation loop is prevented by structural constraints. Scientific Reports, 2020, 10, 591.	3.3	10
120	Chiral discrimination in the oxidation of ferrocenes by cytochrome c peroxidase. Chemical Communications, 1997, , 517-518.	4.1	9
121	Separation and purification of periplasmic cytochrome c553 using reversed micelles. Biotechnology Letters, 1999, 13, 159-163.	0.5	9
122	Ionic strength dependence of the non-physiological electron transfer between flavodoxin and cytochrome c 553 from D. vulgaris. Journal of Biological Inorganic Chemistry, 2000, 5, 730-737.	2.6	9
123	Electrochemistry of Canis familiaris cytochrome P450 2D15 with gold nanoparticles: An alternative to animal testing in drug discovery. Bioelectrochemistry, 2015, 105, 110-116.	4.6	9
124	Bioelectrochemical profiling of two common polymorphic variants of human FMO3 in presence of graphene oxide. Electrochimica Acta, 2017, 228, 611-618.	5.2	9
125	Effect of sildenafil on human aromatase activity: From in vitro structural analysis to catalysis and inhibition in cells. Journal of Steroid Biochemistry and Molecular Biology, 2017, 165, 438-447.	2.5	9
126	Enzymatically Produced Trimethylamine N-Oxide: Conserving It or Eliminating It. Catalysts, 2019, 9, 1028.	3.5	9

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127	Human flavin-containing monooxygenase 1 and its long-sought hydroperoxyflavin intermediate. Biochemical Pharmacology, 2021, 193, 114763.	4.4	9
128	Isolation and characterization of a new [FeFe]â€hydrogenase from Clostridium perfringens. Biotechnology and Applied Biochemistry, 2016, 63, 305-311.	3.1	8
129	N- and S-oxygenation activity of truncated human flavin-containing monooxygenase 3 and its common polymorphic variants. Archives of Biochemistry and Biophysics, 2021, 697, 108663.	3.0	8
130	Expression and role of CYP505A1 in pathogenicity of Fusarium oxysporum f. sp. lactucae. Biochimica Et Biophysica Acta - Proteins and Proteomics, 2020, 1868, 140268.	2.3	7
131	Production of drug metabolites by human FMO3 in Escherichia coli. Microbial Cell Factories, 2020, 19, 74.	4.0	7
132	Multiâ€Enzymatic Cascade Reactions for the Synthesis of cis,cisâ€Muconic Acid. Advanced Synthesis and Catalysis, 2022, 364, 114-123.	4.3	7
133	Assessment of Five Pesticides as Endocrine-Disrupting Chemicals: Effects on Estrogen Receptors and Aromatase. International Journal of Environmental Research and Public Health, 2022, 19, 1959.	2.6	7
134	Characterisation of the electron transfer and complex formation between Flavodoxin from D. vulgaris and the haem domain of Cytochrome P450 BM3 from B. megaterium. Biochimica Et Biophysica Acta - Bioenergetics, 2009, 1787, 234-241.	1.0	6
135	A Rapid Screening for Cytochrome P450 Catalysis on New Chemical Entities: Cytochrome P450 BM3 and 1,2,5-Oxadiazole Derivatives. Journal of Biomolecular Screening, 2013, 18, 211-218.	2.6	6
136	Enzyme-substrate matching in biocatalysis: in silico studies to predict substrate preference of ten putative ene-reductases from Mucor circinelloides MUT44. Journal of Molecular Catalysis B: Enzymatic, 2016, 131, 94-100.	1.8	6
137	Atypical effect of temperature tuning on the insertion of the catalytic ironâ"sulfur center in a recombinant [FeFe]â€hydrogenase. Protein Science, 2015, 24, 2090-2094.	7.6	5
138	Improving sustainable hydrogen production from green waste: [FeFe]-hydrogenases quantitative gene expression RT-qPCR analysis in presence of autochthonous consortia. Biotechnology for Biofuels, 2021, 14, 182.	6.2	5
139	Rational Design of P450 Enzymes for Biotechnology. Focus on Biotechnology, 2001, , 71-104.	0.4	5
140	Molecular Lego of Human Cytochrome P450: The Key Role of Heme Domain Flexibility for the Activity of the Chimeric Proteins. International Journal of Molecular Sciences, 2022, 23, 3618.	4.1	5
141	EPR characterization of the heme domain of a self-sufficient cytochrome P450 (CYP116B5). Journal of Inorganic Biochemistry, 2022, 231, 111785.	3.5	5
142	Engineering heme binding sites in monomeric rop. Journal of Biological Inorganic Chemistry, 2009, 14, 497-505.	2.6	4
143	Redox properties and crystal structures of a Desulfovibrio vulgaris flavodoxin mutant in the monomeric and homodimeric forms. Biochimica Et Biophysica Acta - Proteins and Proteomics, 2009, 1794, 496-505.	2.3	4
144	Toward reduction in animal sacrifice for drugs: Molecular modeling of Macaca fascicularis P450 2C20 for virtual screening of Homo sapiens P450 2C8 substrates. Biotechnology and Applied Biochemistry, 2012, 59, 479-489.	3.1	4

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145	First Report of Alternaria alternata on Campanula rapunculoides in Italy. Plant Disease, 2019, 103, 368.	1.4	3
146	Synthesis of Î±-Hydroxy Fatty Acids from Fatty Acids by Intermediate Î±-Chlorination with TCCA under Solvent-Free Conditions: A Way to Valorization of Waste Fat Biomasses. ACS Omega, 2021, 6, 31901-31906.	3.5	3
147	Effect of fungicides and of biocontrol agents against powdery mildew of turnip. Communications in Agricultural and Applied Biological Sciences, 2008, 73, 21-9.	0.0	3
148	Chemical control of downy mildew on lettuce and basil under greenhouse. Communications in Agricultural and Applied Biological Sciences, 2009, 74, 933-40.	0.0	3
149	Iron-based redox centres of reductase and oxygenase components of phenol hydroxylase from A. radioresistens: a redox chain working at highly positive redox potentials. Metallomics, 2012, 4, 72-77.	2.4	2
150	Cytochromes P450 Redox Activity. , 2018, , 90-109.		2
151	Chimeric cytochrome P450 3A4 used forin vitroprediction of foodâ€“drug interactions. Biotechnology and Applied Biochemistry, 2020, 67, 541-548.	3.1	2
152	Polymorphism on human aromatase affects protein dynamics and substrate binding: spectroscopic evidence. Biology Direct, 2021, 16, 8.	4.6	2
153	Chapter 6. Cytochromes P450: Tailoring a Class of Enzymes for Biosensing. , 0, , 153-192.		2
154	CYP116B5hd, a self-sufficient P450 cytochrome: A dataset of its electronic and geometrical properties. Data in Brief, 2022, 42, 108195.	1.0	2
155	Engineering a soluble, catalytically self-sufficient human P450 for nanobiotechnology. Biochemical Society Transactions, 2001, 29, A38-A38.	3.4	1
156	Cytochrome P450 biotechnology. Biotechnology and Applied Biochemistry, 2013, 60, 1-1.	3.1	1
157	Laser-written nanoporous silicon diffraction gratings for biosensors. Applied Optics, 2013, 52, 8802.	1.8	1
158	Basic and applied science at the time of COVIDâ€19. FEBS Letters, 2020, 594, 2933-2934.	2.8	1
159	First Report of Powdery Mildew of Salvia nemorosa Caused by Golovinomyces biocellatus in Italy. Plant Disease, 2021, 105, 494.	1.4	1
160	ENGINEERING NON-PHYSIOLOGICAL ELECTRON TRANSFER. Biochemical Society Transactions, 1999, 27, A58-A58.	3.4	0
161	PROTEIN ADSORPTION ON NANOCRYSTALLINE Ti02 FILMS: A NOVEL IMMOBILISATION STRATEGY FOR BIOELECTROCHEMISTRY AND BIOANALYTICAL DEVICES. Biochemical Society Transactions, 2000, 28, A44-A44.	3.4	0
162	Biotechonology: Paper Alert. Current Opinion in Biotechnology, 2002, 13, 523-530.	6.6	0

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164	Turin special issue: Biochemistry for tomorrow's medicine. FEBS Letters, 2011, 585, 1503-1503.	2.8	0
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