Gilles J Truan

List of Publications by Year
in descending order

67 papers	1,954 citations	257429 24 h-index	265191 42 g-index
71 all docs	71 docs citations	71 times ranked	1887 citing authors

#	Article	IF	Citations
1	â€œAll in Oneâ€•Epoxy-Based Microfluidic Chips at Your Fingertips. ACS Applied Polymer Materials, 2021, 3, 801-810.	4.4	8
2	Multiplicity of carotene patterns derives from competition between phytoene desaturase diversification and biological environments. Scientific Reports, 2020, 10, 21106.	3.3	4
3	Interaction Modes of Microsomal Cytochrome P450s with Its Reductase and the Role of Substrate Binding. International Journal of Molecular Sciences, 2020, 21, 6669.	4.1	9
4	Whole-Cell Biotransformation of 1,12-Dodecanedioic Acid from Coconut Milk Factory Wastewater by Recombinant CYP52A17SS Expressing Saccharomyces cerevisiae. Processes, 2020, 8, 969.	2.8	4
5	The Promise of Optogenetics for Bioproduction: Dynamic Control Strategies and Scale-Up Instruments. Bioengineering, 2020, 7, 151.	3.5	38
6	The Role of the FMN-Domain of Human Cytochrome P450 Oxidoreductase in Its Promiscuous Interactions With Structurally Diverse Redox Partners. Frontiers in Pharmacology, 2020, 11, 299.	3.5	22
7	Development of a Biosensor for Detection of Benzoic Acid Derivatives in Saccharomyces cerevisiae. Frontiers in Bioengineering and Biotechnology, 2020, 7, 372.	4.1	12
8	Synthetic Derivatives of (+)-epi-Î±-Bisabolol Are Formed by Mammalian Cytochromes P450 Expressed in a Yeast Reconstituted Pathway. ACS Synthetic Biology, 2020, 9, 368-380.	3.8	10
9	Functional analysis of isoprenoid precursors biosynthesis by quantitative metabolomics and isotopologue profiling. Metabolomics, 2019, 15, 115.	3.0	8
10	Occurrence and stability of hetero-hexamer associations formed by Î²-carboxysome CcmK shell components. PLoS ONE, 2019, 14, e0223877.	2.5	20
11	Biotransformation of lauric acid into 1,12-dodecanedioic acid using CYP52A17 expressed in Saccharomyces cerevisiae and its application in refining coconut factory wastewater. International Biodeterioration and Biodegradation, 2019, 139, 70-77.	3.9	9
12	Enzyme-fusion strategies for redirecting and improving carotenoid synthesis in S. cerevisiae. Metabolic Engineering Communications, 2019, 8, e00086.	3.6	45
13	Accurate Determination of Human CPR Conformational Equilibrium by smFRET Using Dual Orthogonal Noncanonical Amino Acid Labeling. ChemBioChem, 2019, 20, 659-666.	2.6	13
14	Title is missing!. , 2019, 14, e0223877.		0
15	Title is missing!. , 2019, 14, e0223877.		0
16	Title is missing!. , 2019, 14, e0223877.		0
17	Title is missing!. , 2019, 14, e0223877.		0
18	Probing the Role of the Hinge Segment of Cytochrome P450 Oxidoreductase in the Interaction with Cytochrome P450. International Journal of Molecular Sciences, 2018, 19, 3914.	4.1	16

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19	Human cytochrome P450 expression in bacteria: Whole-cell high-throughput activity assay for CYP1A2, 2A6 and 3A4. Biochemical Pharmacology, 2018, 158, 134-140.	4.4	7
20	Ligand Access Channels in Cytochrome P450 Enzymes: A Review. International Journal of Molecular Sciences, 2018, 19, 1617.	4.1	59
21	The hepatoprotective activity of a new derivative kaempferol glycoside from the leaves of Vietnamese Phyllanthus acidus (L.) Skeels. Medicinal Chemistry Research, 2017, 26, 2057-2064.	2.4	20
22	The Hinge Segment of Human NADPH-Cytochrome P450 Reductase in Conformational Switching: The Critical Role of Ionic Strength. Frontiers in Pharmacology, 2017, 8, 755.	3.5	21
23	Spontaneous non-canonical assembly of CcmK hexameric components from Î²-carboxysome shells of cyanobacteria. PLoS ONE, 2017, 12, e0185109.	2.5	17
24	Ordered chimerogenesis applied to CYP2B P450 enzymes. Biochimica Et Biophysica Acta - General Subjects, 2016, 1860, 1395-1403.	2.4	11
25	Transcription Interference and ORF Nature Strongly Affect Promoter Strength in a Reconstituted Metabolic Pathway. Frontiers in Bioengineering and Biotechnology, 2015, 3, 21.	4.1	11
26	A Well-Balanced Preexisting Equilibrium Governs Electron Flux Efficiency of a Multidomain Diflavin Reductase. Biophysical Journal, 2015, 108, 1527-1536.	0.5	35
27	Access channels to the buried active site control substrate specificity in CYP1A P450 enzymes. Biochimica Et Biophysica Acta - General Subjects, 2015, 1850, 696-707.	2.4	21
28	High-Throughput Functional Screening of Steroid Substrates with Wild-Type and Chimeric P450 Enzymes. BioMed Research International, 2014, 2014, 1-11.	1.9	8
29	Dynamics of Î±-Hb chain binding to its chaperone AHSP depends on heme coordination and redox state. Biochimica Et Biophysica Acta - General Subjects, 2014, 1840, 277-287.	2.4	10
30	Dynamic Control of Electron Transfers in Diflavin Reductases. International Journal of Molecular Sciences, 2012, 13, 15012-15041.	4.1	26
31	The Closed and Compact Domain Organization of the 70-kDa Human Cytochrome P450 Reductase in Its Oxidized State As Revealed by NMR. Journal of Molecular Biology, 2012, 420, 296-309.	4.2	42
32	Role of the interface between the FMN and FAD domains in the control of redox potential and electronic transfer of NADPHâ€“cytochrome P450 reductase. Biochemical Journal, 2011, 435, 197-206.	3.7	29
33	NMR structure note: oxidized microsomal human cytochrome b5. Journal of Biomolecular NMR, 2010, 47, 289-295.	2.8	12
34	NADH oxidase activity of Bacillus subtilis nitroreductase NfrA1: Insight into its biological role. FEBS Letters, 2010, 584, 3916-3922.	2.8	22
35	A single-step procedure of recombinant library construction for the selection of efficiently produced llama VH binders directed against cancer markers. Journal of Immunological Methods, 2009, 350, 54-62.	1.4	32
36	Cloning, purification, crystallization and preliminary X-ray analysis of a chimeric NADPH-cytochrome P450 reductase. Acta Crystallographica Section F: Structural Biology Communications, 2009, 65, 210-212.	0.7	4

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37	Structure of the open conformation of a functional chimeric NADPH cytochrome P450 reductase. EMBO Reports, 2009, 10, 742-747.	4.5	79
38	Functional Analysis of Yeast bcs1 Mutants Highlights the Role of Bcs1p-Specific Amino Acids in the AAA Domain. Journal of Molecular Biology, 2009, 388, 252-261.	4.2	25
39	Differences in Functional Clustering of Endogenous and Exogenous Substrates Between Members of the CYP1A Subfamily. The Open Drug Metabolism Journal, 2009, 3, 17-30.	0.5	6
40	High-throughput enzymology and combinatorial mutagenesis for mining cytochrome P450 functions. Expert Opinion on Drug Metabolism and Toxicology, 2008, 4, 733-747.	3.3	10
41	A combinatorial approach to substrate discrimination in the P450 CYP1A subfamily. Biochimica Et Biophysica Acta - General Subjects, 2007, 1770, 446-457.	2.4	24
42	Gene2Oligo: oligonucleotide design for in vitro gene synthesis. Nucleic Acids Research, 2004, 32, W176-W180.	14.5	103
43	Exploration of Natural and Artificial Sequence Spaces: Towards a Functional Remodeling of Membrane-bound Cytochrome P450. Biocatalysis and Biotransformation, 2003, 21, 55-66.	2.0	7
44	Producing Chimeric Genes by CLERY In Vitro and In Vivo Recombination. , 2003, 231, 165-174.		8
45	Sequence Mapping of Combinatorial Libraries on Macro- and Microarrays Bioinformatic Treatment of Data. , 2003, 231, 199-211.		0
46	Sequence Mapping of Combinatorial Libraries on Macro- or Microarrays Experimental Design of DNA Arrays. , 2003, 231, 189-198.		0
47	Microarray-Based Method for Combinatorial Library Sequence Mapping and Characterization. BioTechniques, 2003, 34, 1272-1279.	1.8	3
48	Computational Methods for Sequence Mapping of Large Combinatorial Libraries and Deduced Sequence Signatures. BioTechniques, 2003, 34, 1280-1286.	1.8	1
49	Exploration of Natural and Artificial Sequence Spaces: Towards a Functional Remodeling of Membrane-bound Cytochrome P450. Biocatalysis and Biotransformation, 2003, 21, 55-66.	2.0	3
50	Functional cloning, based on azole resistance in Saccharomyces cerevisiae, and characterization of Rhizopus nigricans redox carriers that are differentially involved in the P450-dependent response to progesterone stress. Molecular Genetics and Genomics, 2001, 265, 930-940.	2.1	11
51	Design and Characterization of a Novel Â« Family-Shuffling Â» Technology Adapted to Membrane Enzyme: Application to P450s Involved in Xenobiotic Metabolism. Advances in Experimental Medicine and Biology, 2001, 500, 319-322.	1.6	1
52	High efficiency family shuffling based on multi-step PCR and in vivo DNA recombination in yeast: statistical and functional analysis of a combinatorial library between human cytochrome P450 1A1 and 1A2. Nucleic Acids Research, 2000, 28, 88e-88.	14.5	107
53	P450BM-3: Absolute Configuration of the Primary Metabolites of Palmitic Acid. Archives of Biochemistry and Biophysics, 1999, 366, 192-198.	3.0	43
54	Thr268 in Substrate Binding and Catalysis in P450BM-3. Archives of Biochemistry and Biophysics, 1998, 349, 53-64.	3.0	48

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55	An Active Site Substitution, F87V, Converts Cytochrome P450 BM-3 into a Regio- and Stereoselective (14S,15R)-Arachidonic Acid Epoxygenase. Journal of Biological Chemistry, 1997, 272, 1127-1135.	3.4	156
56	Reconstitution of the Fatty Acid Hydroxylase Activity of Cytochrome P450BM-3 Utilizing Its Functional Domains. Archives of Biochemistry and Biophysics, 1997, 340, 231-238.	3.0	31
57	P450BM-3: A tale of two domainsâ€"or is it three?. Steroids, 1997, 62, 117-123.	1.8	20
58	Simulation of human xenobiotic metabolism in microorganisms. Journal of Hepatology, 1997, 26, 81-85.	3.7	48
59	The Flavoprotein Domain of P450BM-3:Â Expression, Purification, and Properties of the Flavin Adenine Dinucleotide- and Flavin Mononucleotide-Binding Subdomainsâ€. Biochemistry, 1996, 35, 7528-7535.	2.5	58
60	The Highly Stereoselective Oxidation of Polyunsaturated Fatty Acids by Cytochrome P450BM-3. Journal of Biological Chemistry, 1996, 271, 22663-22671.	3.4	161
61	ENGINEERED YEASTS SIMULATING P450-DEPENDENT METABOLISMS: TRICKS, MYTHS AND REALITY. Drug Metabolism and Drug Interactions, 1994, 11, 169-200.	0.3	15
62	Cloning and characterization of a yeast cytochrome b5-encoding gene which suppresses ketoconazole hypersensitivity in a NADPH-P-450 reductase-deficient strain. Gene, 1994, 142, 123-127.	2.2	76
63	Recombinant yeast in drug metabolism. Toxicology, 1993, 82, 39-52.	4.2	45
64	Enhanced in vivo monooxygenase activities of mammalian P450s in engineered yeast cells producing high levels of NADPH-P450 reductase and human cytochrome b5. Gene, 1993, 125, 49-55.	2.2	145
65	Xenobiotic metabolism in humanized yeast: engineered yeast cells producing human NADP H-cytochrome P-450 reductase, cytochrome b5, epoxide hydrolase and P-450s. Biochemical Society Transactions, 1993, 21, 1028-1034.	3.4	35
66	Microsomal environment dependence of human P450 activities expressed in yeast. Journal of Basic and Clinical Physiology and Pharmacology, 1992, 3, .	1.3	0
67	Optimization of yeast-expressed human liver cytochrome P450 3A4 catalytic activities by coexpressing NADPH-cytochrome P450 reductase and cytochrome b5. FEBS Journal, 1992, 207, 109-116.	0.2	77