

Jean-Marie François

List of Publications by Year in descending order

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108
papers

2,988
citations

136740

32
h-index

205818

48
g-index

116
all docs

116
docs citations

116
times ranked

4200
citing authors

#	ARTICLE	IF	CITATIONS
1	Transcriptomic analysis of the exit from dormancy of <i>Aspergillus fumigatus</i> conidia. <i>BMC Genomics</i> , 2008, 9, 417.	1.2	118
2	Finding undetected protein associations in cell signaling by belief propagation. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2011, 108, 882-887.	3.3	113
3	A simple method for quantitative determination of polysaccharides in fungal cell walls. <i>Nature Protocols</i> , 2006, 1, 2995-3000.	5.5	104
4	Microbial production of propanol. <i>Biotechnology Advances</i> , 2016, 34, 984-996.	6.0	88
5	Dendrislides, dendrichips: a simple chemical functionalization of glass slides with phosphorus dendrimers as an effective means for the preparation of biochips. <i>New Journal of Chemistry</i> , 2003, 27, 1713-1719.	1.4	86
6	Yeast Tolerance to Various Stresses Relies on the Trehalose-6P Synthase (Tps1) Protein, Not on Trehalose. <i>Journal of Biological Chemistry</i> , 2015, 290, 16177-16190.	1.6	76
7	Nanoscale Effects of Caspofungin against Two Yeast Species, <i>Saccharomyces cerevisiae</i> and <i>Candida albicans</i> . <i>Antimicrobial Agents and Chemotherapy</i> , 2013, 57, 3498-3506.	1.4	71
8	Resonating piezoelectric membranes for microelectromechanically based bioassay: detection of streptavidin-gold nanoparticles interaction with biotinylated DNA. <i>Sensors and Actuators B: Chemical</i> , 2005, 110, 125-136.	4.0	70
9	Control of ATP homeostasis during the respiratory-fermentative transition in yeast. <i>Molecular Systems Biology</i> , 2010, 6, 344.	3.2	69
10	Influence of yeast quality on performance of gnotobiotically grown <i>Artemia</i> . <i>Journal of Experimental Marine Biology and Ecology</i> , 2004, 310, 247-264.	0.7	68
11	Engineering microbial pathways for production of bio-based chemicals from lignocellulosic sugars: current status and perspectives. <i>Biotechnology for Biofuels</i> , 2020, 13, 118.	6.2	67
12	Impact of the unfolded protein response on the pathogenicity of the necrotrophic fungus <i>Alternaria brassicicola</i> . <i>Molecular Microbiology</i> , 2011, 79, 1305-1324.	1.2	62
13	Production of <i>Aspergillus niger</i> biomass on sugarcane distillery wastewater: physiological aspects and potential for biodiesel production. <i>Fungal Biology and Biotechnology</i> , 2018, 5, 1.	2.5	60
14	A <i>Ralstonia solanacearum</i> Type III Effector Directs the Production of the Plant Signal Metabolite Trehalose-6-Phosphate. <i>MBio</i> , 2014, 5, .	1.8	58
15	Characterization of a New Multigene Family Encoding Isomaltases in the Yeast <i>Saccharomyces cerevisiae</i> , the IMA Family. <i>Journal of Biological Chemistry</i> , 2010, 285, 26815-26824.	1.6	57
16	Tracking the best reference genes for RT-qPCR data normalization in filamentous fungi. <i>BMC Genomics</i> , 2015, 16, 71.	1.2	57
17	Engineering of a Synthetic Metabolic Pathway for the Assimilation of D-Xylose into Value-Added Chemicals. <i>ACS Synthetic Biology</i> , 2016, 5, 607-618.	1.9	52
18	Proteomics analysis of Rovbio, a secreted protein cocktail from the filamentous fungus <i>Penicillium funiculosum</i> grown under industrial process fermentation. <i>Journal of Industrial Microbiology and Biotechnology</i> , 2008, 35, 1659-1668.	1.4	51

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19	Construction of a synthetic metabolic pathway for biosynthesis of the non-natural methionine precursor 2,4-dihydroxybutyric acid. <i>Nature Communications</i> , 2017, 8, 15828.	5.8	50
20	Natural Yeast Promoter Variants Reveal Epistasis in the Generation of Transcriptional-Mediated Noise and Its Potential Benefit in Stressful Conditions. <i>Genome Biology and Evolution</i> , 2015, 7, 969-984.	1.1	49
21	Effect of Amino Acids on Red Pigments and Citrinin Production in <i>Monascus ruber</i> . <i>Journal of Food Science</i> , 2012, 77, M156-9.	1.5	47
22	Investigation of <i>Aspergillus fumigatus</i> biofilm formation by various omics approaches. <i>Frontiers in Microbiology</i> , 2013, 4, 13.	1.5	47
23	A combined chemical and enzymatic method to determine quantitatively the polysaccharide components in the cell wall of yeasts. <i>FEMS Yeast Research</i> , 2014, 14, 933-947.	1.1	47
24	Optimization of ethylene glycol production from (d)-xylose via a synthetic pathway implemented in <i>Escherichia coli</i> . <i>Microbial Cell Factories</i> , 2015, 14, 127.	1.9	47
25	Molecular and biochemical characterization of three GH62 α -L-arabinofuranosidases from the soil deuteromycete <i>Penicillium funiculosum</i> . <i>Enzyme and Microbial Technology</i> , 2013, 53, 351-358.	1.6	46
26	Evidence for a Role for the Plasma Membrane in the Nanomechanical Properties of the Cell Wall as Revealed by an Atomic Force Microscopy Study of the Response of <i>Saccharomyces cerevisiae</i> to Ethanol Stress. <i>Applied and Environmental Microbiology</i> , 2016, 82, 4789-4801.	1.4	45
27	Uncovering by Atomic Force Microscopy of an original circular structure at the yeast cell surface in response to heat shock. <i>BMC Biology</i> , 2014, 12, 6.	1.7	43
28	Influence of nitrogen supply on the production of higher alcohols/esters and expression of flavour-related genes in cachaça fermentation. <i>Food Chemistry</i> , 2013, 138, 701-708.	4.2	41
29	Use of atomic force microscopy (AFM) to explore cell wall properties and response to stress in the yeast <i>Saccharomyces cerevisiae</i> . <i>Current Genetics</i> , 2013, 59, 187-196.	0.8	40
30	In vivo evolutionary engineering for ethanol-tolerance of <i>Saccharomyces cerevisiae</i> haploid cells triggers diploidization. <i>Journal of Bioscience and Bioengineering</i> , 2017, 124, 309-318.	1.1	38
31	Gene Expression Profile Related to the Progression of Preneoplastic Nodules toward Hepatocellular Carcinoma in Rats. <i>Neoplasia</i> , 2006, 8, 373-387.	2.3	37
32	Metabolic response to MMS-mediated DNA damage in <i>Saccharomyces cerevisiae</i> is dependent on the glucose concentration in the medium. <i>FEMS Yeast Research</i> , 2009, 9, 535-551.	1.1	35
33	Use of noise in gene expression as an experimental parameter to test phenotypic effects. <i>Yeast</i> , 2016, 33, 209-216.	0.8	35
34	Preparation of Tethered-Lipid Bilayers on Gold Surfaces for the Incorporation of Integral Membrane Proteins Synthesized by Cell-Free Expression. <i>Langmuir</i> , 2014, 30, 3132-3141.	1.6	34
35	Construction of a synthetic metabolic pathway for the production of 2,4-dihydroxybutyric acid from homoserine. <i>Metabolic Engineering</i> , 2018, 45, 237-245.	3.6	33
36	Synthetic Biology Applied to Carbon Conservative and Carbon Dioxide Recycling Pathways. <i>Frontiers in Bioengineering and Biotechnology</i> , 2019, 7, 446.	2.0	32

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37	1,3-Propanediol production in a two-step process fermentation from renewable feedstock. <i>Applied Microbiology and Biotechnology</i> , 2011, 92, 519-527.	1.7	31
38	Similarities and differences in the biochemical and enzymological properties of the four isomaltases from <i>Saccharomyces cerevisiae</i> . <i>FEBS Open Bio</i> , 2014, 4, 200-212.	1.0	29
39	Construction of a synthetic pathway for the production of 1,3-propanediol from glucose. <i>Scientific Reports</i> , 2019, 9, 11576.	1.6	29
40	Surface plasmon resonance imaging (SPRi) as an alternative technique for rapid and quantitative screening of small molecules, useful in drug discovery. <i>Sensors and Actuators B: Chemical</i> , 2011, 157, 304-309.	4.0	28
41	A New Synthetic Pathway for the Bioproduction of Glycolic Acid From Lignocellulosic Sugars Aimed at Maximal Carbon Conservation. <i>Frontiers in Bioengineering and Biotechnology</i> , 2019, 7, 359.	2.0	27
42	Engineering of <i>Escherichia coli</i> for Krebs cycle-dependent production of malic acid. <i>Microbial Cell Factories</i> , 2018, 17, 113.	1.9	26
43	Characterization of the family GH54 β -D-arabinofuranosidases in <i>Penicillium funiculosum</i> , including a novel protein bearing a cellulose-binding domain. <i>Applied Microbiology and Biotechnology</i> , 2010, 87, 1007-1021.	1.7	25
44	Mechanisms other than activation of the iron regulon account for the hyper-resistance to cobalt of a <i>Saccharomyces cerevisiae</i> strain obtained by evolutionary engineering. <i>Metallomics</i> , 2013, 5, 1043.	1.0	25
45	A comparative study on the potential of epiphytic yeasts isolated from tropical fruits to produce flavoring compounds. <i>International Journal of Food Microbiology</i> , 2015, 203, 101-108.	2.1	25
46	Effects of the strain background and autolysis process on the composition and biophysical properties of the cell wall from two different industrial yeasts. <i>FEMS Yeast Research</i> , 2015, 15, .	1.1	25
47	Enhanced disease resistance in <i>Artemia</i> by application of commercial β -glucans sources and chitin in a gnotobiotic <i>Artemia</i> challenge test. <i>Fish and Shellfish Immunology</i> , 2007, 23, 1304-1314.	1.6	23
48	The synthetic xylulose-1 phosphate pathway increases production of glycolic acid from xylose-rich sugar mixtures. <i>Biotechnology for Biofuels</i> , 2016, 9, 201.	6.2	22
49	Gene Expression Noise Produces Cell-to-Cell Heterogeneity in Eukaryotic Homologous Recombination Rate. <i>Frontiers in Genetics</i> , 2019, 10, 475.	1.1	22
50	Metabolic phenotypes of <i>Saccharomyces cerevisiae</i> mutants with altered trehalose 6-phosphate dynamics. <i>Biochemical Journal</i> , 2013, 454, 227-237.	1.7	21
51	Development of a Metabolite Sensor for High-Throughput Detection of Aldehydes in <i>Escherichia Coli</i> . <i>Frontiers in Bioengineering and Biotechnology</i> , 2018, 6, 118.	2.0	21
52	Polyunsaturated fatty acid metabolites: biosynthesis in <i>Leishmania</i> and role in parasite/host interaction. <i>Journal of Lipid Research</i> , 2019, 60, 636-647.	2.0	20
53	Cell Surface Interference with Plasma Membrane and Transport Processes in Yeasts. <i>Advances in Experimental Medicine and Biology</i> , 2016, 892, 11-31.	0.8	19
54	Deciphering the Origin, Evolution, and Physiological Function of the Subtelomeric Aryl-Alcohol Dehydrogenase Gene Family in the Yeast <i>Saccharomyces cerevisiae</i> . <i>Applied and Environmental Microbiology</i> , 2018, 84, .	1.4	19

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55	Genetics and Regulation of Glycogen and Trehalose Metabolism in <i>Saccharomyces cerevisiae</i> . <i>Microbiology Monographs</i> , 2012, , 29-55.	0.3	18
56	Trehalose-6-phosphate promotes fermentation and glucose repression in <i>Saccharomyces cerevisiae</i> . <i>Microbial Cell</i> , 2018, 5, 444-459.	1.4	18
57	Integration of Biochemical, Biophysical and Transcriptomics Data for Investigating the Structural and Nanomechanical Properties of the Yeast Cell Wall. <i>Frontiers in Microbiology</i> , 2017, 8, 1806.	1.5	17
58	Cloning, expression and characterization of an aryl-alcohol dehydrogenase from the white-rot fungus <i>Phanerochaete chrysosporium</i> strain BKM-F-1767. <i>BMC Microbiology</i> , 2012, 12, 126.	1.3	16
59	Mapping HA-tagged protein at the surface of living cells by atomic force microscopy. <i>Journal of Molecular Recognition</i> , 2015, 28, 1-9.	1.1	16
60	Flavour production by <i>Saprochaete</i> and <i>Geotrichum</i> yeasts and their close relatives. <i>Food Chemistry</i> , 2017, 237, 677-684.	4.2	14
61	Evaluation of Filamentous Fungi and Yeasts for the Biodegradation of Sugarcane Distillery Wastewater. <i>Microorganisms</i> , 2020, 8, 1588.	1.6	14
62	Impact of down-stream processing on functional properties of yeasts and the implications on gut health of Atlantic salmon (<i>Salmo salar</i>). <i>Scientific Reports</i> , 2021, 11, 4496.	1.6	14
63	Crystal structure of the YML079w protein from <i>Saccharomyces cerevisiae</i> reveals a new sequence family of the jelly-roll fold. <i>Protein Science</i> , 2009, 14, 209-215.	3.1	13
64	Fuzzy logic selection as a new reliable tool to identify molecular grade signatures in breast cancer – the INNODIAG study. <i>BMC Medical Genomics</i> , 2015, 8, 3.	0.7	13
65	Knr4: a disordered hub protein at the heart of fungal cell wall signalling. <i>Cellular Microbiology</i> , 2016, 18, 1217-1227.	1.1	13
66	Integrated pH Measurement during Reaction Monitoring with Dual-Reception ³¹ P NMR Spectroscopy. <i>Analytical Chemistry</i> , 2019, 91, 3959-3963.	3.2	13
67	Developmental stage-dependent metabolic regulation during meiotic differentiation in budding yeast. <i>BMC Biology</i> , 2014, 12, 60.	1.7	12
68	Prevalence, identification by a DNA microarray-based assay of human and food isolates <i>Listeria</i> spp. from Tunisia. <i>Pathologie Et Biologie</i> , 2014, 62, 24-29.	2.2	12
69	Effect of the cultivation mode on red pigments production from <i>Monascus ruber</i> . <i>International Journal of Food Science and Technology</i> , 2015, 50, 1731-1736.	1.3	12
70	Rational engineering of a malate dehydrogenase for microbial production of 2,4-dihydroxybutyric acid via homoserine pathway. <i>Biochemical Journal</i> , 2018, 475, 3887-3901.	1.7	12
71	Evaluation of mixed-fermentation of <i>Saccharomyces cerevisiae</i> with <i>Saprochaete suaveolens</i> to produce natural fruity beer from industrial wort. <i>Food Chemistry</i> , 2021, 346, 128804.	4.2	12
72	Functional dissection of an intrinsically disordered protein: Understanding the roles of different domains of Knr4 protein in protein-protein interactions. <i>Protein Science</i> , 2010, 19, 1376-1385.	3.1	11

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73	Dynamic PDMS inking for DNA patterning by soft lithography. <i>Microelectronic Engineering</i> , 2013, 111, 379-383.	1.1	11
74	Comparison of polyurethane and epoxy resist master mold for nanoscale soft lithography. <i>Microelectronic Engineering</i> , 2013, 110, 183-187.	1.1	11
75	Biosynthesis of higher alcohol flavour compounds by the yeast <i>Saccharomyces cerevisiae</i> : impact of oxygen availability and responses to glucose pulse in minimal growth medium with leucine as sole nitrogen source.. <i>Yeast</i> , 2014, 32, n/a-n/a.	0.8	11
76	Bimodality of gene expression from yeast promoter can be instigated by DNA context, inducing conditions and strain background. <i>FEMS Yeast Research</i> , 2018, 18, .	1.1	11
77	Knr4 N-terminal domain controls its localization and function during sexual differentiation and vegetative growth. <i>Yeast</i> , 2010, 27, 563-574.	0.8	10
78	The <i>PGM3</i> gene encodes the major phosphoribomutase in the yeast <i>Saccharomyces cerevisiae</i> . <i>FEBS Letters</i> , 2012, 586, 4114-4118.	1.3	10
79	Carbon sources and XlnR-dependent transcriptional landscape of CAZymes in the industrial fungus <i>Talaromyces versatilis</i> : when exception seems to be the rule. <i>Microbial Cell Factories</i> , 2019, 18, 14.	1.9	10
80	Physiological and biochemical characteristics of the ethyl tiglate production pathway in the yeast <i>Saprochaete suaveolens</i> . <i>Yeast</i> , 2015, 32, 57-66.	0.8	10
81	Cationic Amphiphilic Drugs Are Potent Inhibitors of Yeast Sporulation. <i>PLoS ONE</i> , 2012, 7, e42853.	1.1	8
82	Innovative DendrisChips® Technology for a Syndromic Approach of In Vitro Diagnosis: Application to the Respiratory Infectious Diseases. <i>Diagnostics</i> , 2018, 8, 77.	1.3	8
83	Multiplexing technology for in vitro diagnosis of pathogens: the key contribution of phosphorus dendrimers. <i>Science China Materials</i> , 2018, 61, 1454-1461.	3.5	8
84	The dual role of amyloid- β -sheet sequences in the cell surface properties of FLO11-encoded flocculins in <i>Saccharomyces cerevisiae</i> . <i>ELife</i> , 2021, 10, .	2.8	8
85	FLO11, a Developmental Gene Conferring Impressive Adaptive Plasticity to the Yeast <i>Saccharomyces cerevisiae</i> . <i>Pathogens</i> , 2021, 10, 1509.	1.2	8
86	Contribution to the elucidation of the structure of the bacterial flagellum nano-motor through AFM imaging of the M-Ring. <i>Ultramicroscopy</i> , 2009, 109, 845-853.	0.8	7
87	Celecoxib activates Stat5 and restores or increases the expression of growth hormone-regulated genes in hepatocarcinogenesis. <i>Anti-Cancer Drugs</i> , 2010, 21, 411-422.	0.7	7
88	Proteasome Activity Deregulation in LEC Rat Hepatitis: Following the Insights of Transcriptomic Analysis. <i>OMICS A Journal of Integrative Biology</i> , 2007, 11, 367-384.	1.0	6
89	Editorial “Synthetic Biology: Engineering Complexity and Refactoring Cell Capabilities. <i>Frontiers in Bioengineering and Biotechnology</i> , 2015, 3, 120.	2.0	6
90	AFM dendritips functionalized with molecular probes specific to cell wall polysaccharides as a tool to investigate cell surface structure and organization. <i>Cell Surface</i> , 2019, 5, 100027.	1.5	6

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91	Detection of minority variants within bovine respiratory syncytial virus populations using oligonucleotide-based microarrays. <i>Journal of Virological Methods</i> , 2008, 148, 271-276.	1.0	5
92	Automated and Multiplexed Soft Lithography for the Production of Low-Density DNA Microarrays. <i>Microarrays (Basel, Switzerland)</i> , 2016, 5, 25.	1.4	5
93	A GRX1 Promoter Variant Confers Constitutive Noisy Bimodal Expression That Increases Oxidative Stress Resistance in Yeast. <i>Frontiers in Microbiology</i> , 2018, 9, 2158.	1.5	5
94	Combined in situ Physical and ex-situ Biochemical Approaches to Investigate in vitro Deconstruction of Destarched Wheat Bran by Enzymes Cocktail Used in Animal Nutrition. <i>Frontiers in Bioengineering and Biotechnology</i> , 2019, 7, 158.	2.0	5
95	A Two-step Strategy for High-Value-Added Utilization of Rapeseed Meal by Concurrent Improvement of Phenolic Extraction and Protein Conversion for Microbial Iturin A Production. <i>Frontiers in Bioengineering and Biotechnology</i> , 2021, 9, 735714.	2.0	4
96	Selection by UV Mutagenesis and Physiological Characterization of Mutant Strains of the Yeast <i>Saprochaete suaveolens</i> (Former <i>Geotrichum fragrans</i>) with Higher Capacity to Produce Flavor Compounds. <i>Journal of Fungi (Basel, Switzerland)</i> , 2021, 7, 1031.	1.5	4
97	Xylosylation as an effective means for reducing yeast growth inhibition by 2-phenylethanol. <i>Journal of Basic Microbiology</i> , 2013, 53, 792-795.	1.8	3
98	<i>SIR2</i> Expression Noise Can Generate Heterogeneity in Viability but Does Not Affect Cell-to-Cell Epigenetic Silencing of Subtelomeric <i>URA3</i> in Yeast. <i>G3: Genes, Genomes, Genetics</i> , 2020, 10, 3435-3443.	0.8	3
99	A generic HTS assay for kinase screening: Validation for the isolation of an engineered malate kinase. <i>PLoS ONE</i> , 2018, 13, e0193036.	1.1	3
100	The DendrisCHIP® Technology as a New, Rapid and Reliable Molecular Method for the Diagnosis of Osteoarticular Infections. <i>Diagnostics</i> , 2022, 12, 1353.	1.3	3
101	A Comparative Study of β -Hemolysin Expression in Supported Lipid Bilayers of Synthetic and Enriched Complex Bacterial Lipid. <i>BioNanoScience</i> , 2014, 4, 104-110.	1.5	2
102	Insights on the Control of Yeast Single-Cell Growth Variability by Members of the Trehalose Phosphate Synthase (TPS) Complex. <i>Frontiers in Cell and Developmental Biology</i> , 2021, 9, 607628.	1.8	2
103	Crystallographic studies of the structured core domain of Knr4 from <i>Saccharomyces cerevisiae</i> . <i>Acta Crystallographica Section F, Structural Biology Communications</i> , 2015, 71, 1120-1124.	0.4	2
104	Editorial: 4th Applied Synthetic Biology in Europe. <i>Frontiers in Bioengineering and Biotechnology</i> , 2020, 8, 431.	2.0	2
105	Modulation of helicobacter pylori transcriptional profile by subinhibitory concentrations of rifampicin. <i>Biotechnology Theory and Practice</i> , 2013, , 23-29.	0.0	1
106	Genomic and Proteomic Analyses Provide Insights into the Potential of Filamentous Fungi for Biomass Degradation. , 2011, , 45-56.		1
107	Optical Label-Free Biodetection Based on the Diffraction of DNA Molecular Gratings for In Vitro Diagnostic. <i>Biophysical Journal</i> , 2012, 102, 727a.	0.2	0
108	Insertion of Functional Proteins into Bilayer Lipid Membrane using a Cell-Free Expression System. <i>Biophysical Journal</i> , 2013, 104, 548a.	0.2	0