

Bertrand P Beauvoit

List of Publications by Year in descending order

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55
papers

2,337
citations

201385

27
h-index

214527

47
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55
all docs

55
docs citations

55
times ranked

2898
citing authors

#	ARTICLE	IF	CITATIONS
1	Ammonium supply induces differential metabolic adaptive responses in tomato according to leaf phenological stage. <i>Journal of Experimental Botany</i> , 2021, 72, 3185-3199.	2.4	9
2	Modelling predicts tomatoes can be bigger and sweeter if biophysical factors and transmembrane transports are fine-tuned during fruit development. <i>New Phytologist</i> , 2021, 230, 1489-1502.	3.5	12
3	The Evolution of Leaf Function during Development Is Reflected in Profound Changes in the Metabolic Composition of the Vacuole. <i>Metabolites</i> , 2021, 11, 848.	1.3	4
4	Fruit setting rewires central metabolism via gibberellin cascades. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2020, 117, 23970-23981.	3.3	34
5	Biomass composition explains fruit relative growth rate and discriminates climacteric from non-climacteric species. <i>Journal of Experimental Botany</i> , 2020, 71, 5823-5836.	2.4	35
6	Regulation of Pyridine Nucleotide Metabolism During Tomato Fruit Development Through Transcript and Protein Profiling. <i>Frontiers in Plant Science</i> , 2019, 10, 1201.	1.7	20
7	Get the Balance Right: ROS Homeostasis and Redox Signalling in Fruit. <i>Frontiers in Plant Science</i> , 2019, 10, 1091.	1.7	127
8	Central Metabolism Is Tuned to the Availability of Oxygen in Developing Melon Fruit. <i>Frontiers in Plant Science</i> , 2019, 10, 594.	1.7	9
9	Modeling Protein Destiny in Developing Fruit. <i>Plant Physiology</i> , 2019, 180, 1709-1724.	2.3	33
10	Constraint-Based Modeling Highlights Cell Energy, Redox Status and α -Ketoglutarate Availability as Metabolic Drivers for Anthocyanin Accumulation in Grape Cells Under Nitrogen Limitation. <i>Frontiers in Plant Science</i> , 2018, 9, 421.	1.7	42
11	Putting primary metabolism into perspective to obtain better fruits. <i>Annals of Botany</i> , 2018, 122, 1-21.	1.4	77
12	Respiration climacteric in tomato fruits elucidated by constraint-based modelling. <i>New Phytologist</i> , 2017, 213, 1726-1739.	3.5	67
13	Modelling central metabolic fluxes by constraint-based optimization reveals metabolic reprogramming of developing <i>Solanum lycopersicum</i> (tomato) fruit. <i>Plant Journal</i> , 2015, 81, 24-39.	2.8	76
14	Model-Assisted Analysis of Sugar Metabolism throughout Tomato Fruit Development Reveals Enzyme and Carrier Properties in Relation to Vacuole Expansion. <i>Plant Cell</i> , 2014, 26, 3224-3242.	3.1	103
15	Remarkable Reproducibility of Enzyme Activity Profiles in Tomato Fruits Grown under Contrasting Environments Provides a Roadmap for Studies of Fruit Metabolism. <i>Plant Physiology</i> , 2014, 164, 1204-1221.	2.3	119
16	^{14}C Pulse Labeling to Estimate External Fluxes and Turnovers in Primary Metabolism. <i>Methods in Molecular Biology</i> , 2014, 1090, 41-52.	0.4	0
17	Modelling Metabolic Networks – The Theories of Metabolism. <i>Advances in Botanical Research</i> , 2013, 67, 593-621.	0.5	0
18	Comparison between elementary flux modes analysis and ^{13}C -metabolic fluxes measured in bacterial and plant cells. <i>BMC Systems Biology</i> , 2011, 5, 95.	3.0	24

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19	Oral uridine supplementation antagonizes the peripheral neuropathy and encephalopathy induced by antiretroviral nucleoside analogues. <i>Aids</i> , 2010, 24, 345-352.	1.0	20
20	Role of Pyrimidine Depletion in the Mitochondrial Cardiotoxicity of Nucleoside Analogue Reverse Transcriptase Inhibitors. <i>Journal of Acquired Immune Deficiency Syndromes (1999)</i> , 2010, 55, 550-557.	0.9	11
21	Metabolic acclimation to hypoxia revealed by metabolite gradients in melon fruit. <i>Journal of Plant Physiology</i> , 2010, 167, 242-245.	1.6	75
22	¹ H NMR, GC-MS, and Data Set Correlation for Fruit Metabolomics: Application to Spatial Metabolite Analysis in Melon. <i>Analytical Chemistry</i> , 2009, 81, 2884-2894.	3.2	147
23	Uridine supplementation antagonizes zidovudine-induced mitochondrial myopathy and hyperlactatemia in mice. <i>Arthritis and Rheumatism</i> , 2008, 58, 318-326.	6.7	29
24	Effect of diazoxide on flavoprotein oxidation and reactive oxygen species generation during ischemia-reperfusion: a study on Langendorff-perfused rat hearts using optic fibers. <i>American Journal of Physiology - Heart and Circulatory Physiology</i> , 2008, 294, H2088-H2097.	1.5	37
25	Site-Specific Reduction of Oxidative and Lipid Metabolism in Adipose Tissue of 3-Azido-3-Deoxythymidine-Treated Rats. <i>Antimicrobial Agents and Chemotherapy</i> , 2007, 51, 583-590.	1.4	11
26	Silencing of the Mitochondrial Ascorbate Synthesizing Enzyme Galactono-1,4-Lactone Dehydrogenase Affects Plant and Fruit Development in Tomato. <i>Plant Physiology</i> , 2007, 145, 1408-1422.	2.3	184
27	Sarcoplasmic ATP-sensitive potassium channel blocker HMR1098 protects the ischemic heart: Implication of calcium, complex I, reactive oxygen species and mitochondrial ATP-sensitive potassium channel. <i>Journal of Molecular and Cellular Cardiology</i> , 2007, 42, 631-642.	0.9	26
28	Effects of Right, Left, and Biventricular Pacing on Myocardial Perfusion in Ischemic Conditions. <i>Journal of Cardiovascular Electrophysiology</i> , 2006, 17, 1121-1128.	0.8	6
29	MitoK ATP -dependent changes in mitochondrial volume and in complex II activity during ischemic and pharmacological preconditioning of langendorff-perfused rat heart. <i>Journal of Bioenergetics and Biomembranes</i> , 2006, 38, 101-112.	1.0	14
30	Inhibition of cardiac contractility by 5-hydroxydecanoate and tetraphenylphosphonium ion: a possible role of mitoKATP in response to inotropic stress. <i>American Journal of Physiology - Heart and Circulatory Physiology</i> , 2006, 291, H152-H160.	1.5	22
31	Growth Yield Homeostasis in Respiring Yeast Is Due to a Strict Mitochondrial Content Adjustment. <i>Journal of Biological Chemistry</i> , 2006, 281, 26779-26784.	1.6	24
32	Site specific alterations of adipose tissue mitochondria in 3-azido-3-deoxythymidine (AZT)-treated rats: An early stage in lipodystrophy?. <i>Biochemical Pharmacology</i> , 2005, 70, 90-101.	2.0	30
33	Isolation and properties of promitochondria from anaerobic stationary-phase yeast cells. <i>Antonie Van Leeuwenhoek</i> , 2004, 85, 9-21.	0.7	19
34	Regional differences in oxidative capacity of rat white adipose tissue are linked to the mitochondrial content of mature adipocytes. <i>Molecular and Cellular Biochemistry</i> , 2004, 267, 157-166.	1.4	75
35	Contribution of the phosphorylable complex I in the growth phase-dependent respiration of C6 glioma cells in vitro. <i>Journal of Bioenergetics and Biomembranes</i> , 2003, 35, 439-450.	1.0	45
36	Role of the non-respiratory pathways in the utilization of molecular oxygen by <i>Saccharomyces cerevisiae</i> . <i>Yeast</i> , 2003, 20, 1115-1144.	0.8	129

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37	Oxygen Consumption by Anaerobic <i>Saccharomyces cerevisiae</i> under Enological Conditions: Effect on Fermentation Kinetics. <i>Applied and Environmental Microbiology</i> , 2003, 69, 113-121.	1.4	111
38	cAMP-induced modulation of the growth yield of <i>Saccharomyces cerevisiae</i> during respiratory and respiro-fermentative metabolism. <i>Biochimica Et Biophysica Acta - Bioenergetics</i> , 2002, 1554, 159-169.	0.5	34
39	Activation of Ras cascade increases the mitochondrial enzyme content of respiratory competent yeast. <i>Biochemical and Biophysical Research Communications</i> , 2002, 293, 1383-1388.	1.0	62
40	Non-respiratory oxygen consumption pathways in anaerobically-grown <i>Saccharomyces cerevisiae</i> : evidence and partial characterization. <i>Yeast</i> , 2002, 19, 1299-1321.	0.8	37
41	Control of growth yield of yeast on respiratory substrate by mitochondrial content. <i>Thermochimica Acta</i> , 2002, 394, 113-121.	1.2	4
42	The calorimetric-respirometric ratio is an on-line marker of enthalpy efficiency of yeast cells growing on a non-fermentable carbon source. <i>Biochimica Et Biophysica Acta - Bioenergetics</i> , 2001, 1503, 329-340.	0.5	22
43	Regulation of Cytochrome c Oxidase by Adenylic Nucleotides. Is Oxidative Phosphorylation Feedback Regulated by its End-Products?. <i>IUBMB Life</i> , 2001, 52, 143-152.	1.5	28
44	Growth of the yeast <i>Saccharomyces cerevisiae</i> on a non-fermentable substrate: control of energetic yield by the amount of mitochondria. <i>Biochimica Et Biophysica Acta - Bioenergetics</i> , 2000, 1457, 45-56.	0.5	48
45	Application of near-infrared time-resolved spectroscopy to rat liver - a preliminary report for surgical application. <i>Physics in Medicine and Biology</i> , 1999, 44, 2049-2061.	1.6	21
46	ATP-regulation of cytochrome oxidase in yeast mitochondria. Role of subunit VIa. <i>FEBS Journal</i> , 1999, 263, 118-127.	0.2	24
47	Energetic and morphological plasticity of C6 glioma cells grown on 3-D support; effect of transient glutamine deprivation. <i>Journal of Bioenergetics and Biomembranes</i> , 1998, 30, 565-578.	1.0	52
48	Time-Resolved Spectroscopy of mitochondria, cells and tissues under normal and pathological conditions. , 1998, , 445-455.		1
49	OPTICAL DETERMINATION OF FATTY CHANGE OF THE GRAFT LIVER WITH NEAR-INFRARED TIME-RESOLVED SPECTROSCOPY. <i>Transplantation</i> , 1996, 62, 642-647.	0.5	22
50	<title>Near-infrared spectroscopy of a heterogeneous turbid system containing distributed absorbers</title>. , 1995, , .		3
51	<title>Tumor localization using fluorescence of indocyanine green (ICG) in rat models</title>. , 1995, 2389, 789.		28
52	<title>Time-resolved spectroscopy of mitochondria, cells, and rat tissues under normal and pathological conditions</title>. , 1995, 2326, 127.		8
53	Interactions between glucose metabolism and oxidative phosphorylations on respiratory-competent <i>Saccharomyces cerevisiae</i> cells. <i>FEBS Journal</i> , 1993, 214, 163-172.	0.2	48
54	Thermodynamic and kinetic control of ATP synthesis in yeast mitochondria: Role of \hat{p} H. <i>FEBS Letters</i> , 1989, 244, 255-258.	1.3	27

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55	Polyphosphates as a source of high energy phosphates in yeast mitochondria: A ^{31}P NMR study. FEBS Letters, 1989, 252, 17-21.	1.3	62