

Yves Poirier

List of Publications by Year in descending order

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76
papers

8,539
citations

66343

42
h-index

76900

74
g-index

80
all docs

80
docs citations

80
times ranked

7204
citing authors

#	ARTICLE	IF	CITATIONS
1	Identification and Characterization of the Arabidopsis PHO1 Gene Involved in Phosphate Loading to the Xylem. <i>Plant Cell</i> , 2002, 14, 889-902.	6.6	502
2	Control of eukaryotic phosphate homeostasis by inositol polyphosphate sensor domains. <i>Science</i> , 2016, 352, 986-990.	12.6	438
3	Peroxisomal β -oxidation—A metabolic pathway with multiple functions. <i>Biochimica Et Biophysica Acta - Molecular Cell Research</i> , 2006, 1763, 1413-1426.	4.1	432
4	Mutant of <i>Arabidopsis</i> Deficient in Xylem Loading of Phosphate. <i>Plant Physiology</i> , 1991, 97, 1087-1093.	4.8	417
5	Polyhydroxybutyrate, a Biodegradable Thermoplastic, Produced in Transgenic Plants. <i>Science</i> , 1992, 256, 520-523.	12.6	390
6	Production of Polyhydroxyalkanoates, a Family of Biodegradable Plastics and Elastomers, in Bacteria and Plants. <i>Nature Biotechnology</i> , 1995, 13, 142-150.	17.5	342
7	Regulation of Phosphate Starvation Responses in Plants: Signaling Players and Cross-Talks. <i>Molecular Plant</i> , 2010, 3, 288-299.	8.3	334
8	Spatio-Temporal Transcript Profiling of Rice Roots and Shoots in Response to Phosphate Starvation and Recovery. <i>Plant Cell</i> , 2013, 25, 4285-4304.	6.6	295
9	Dissection of local and systemic transcriptional responses to phosphate starvation in Arabidopsis. <i>Plant Journal</i> , 2010, 64, 775-789.	5.7	293
10	Establishment of new crops for the production of natural rubber. <i>Trends in Biotechnology</i> , 2007, 25, 522-529.	9.3	277
11	The emerging importance of the SPX domain-containing proteins in phosphate homeostasis. <i>New Phytologist</i> , 2012, 193, 842-851.	7.3	269
12	Phosphate Transport and Homeostasis in Arabidopsis. <i>The Arabidopsis Book</i> , 2002, 1, e0024.	0.5	218
13	A Rice <i>cis</i> -Natural Antisense RNA Acts as a Translational Enhancer for Its Cognate mRNA and Contributes to Phosphate Homeostasis and Plant Fitness. <i>Plant Cell</i> , 2013, 25, 4166-4182.	6.6	207
14	Structure and Expression Profile of the Arabidopsis PHO1 Gene Family Indicates a Broad Role in Inorganic Phosphate Homeostasis. <i>Plant Physiology</i> , 2004, 135, 400-411.	4.8	201
15	Characterization of the Rice <i>PHO1</i> Gene Family Reveals a Key Role for <i>OsPHO1;2</i> in Phosphate Homeostasis and the Evolution of a Distinct Clade in Dicotyledons. <i>Plant Physiology</i> , 2010, 152, 1693-1704.	4.8	189
16	Transgenic Arabidopsis plants can accumulate polyhydroxybutyrate to up to 4% of their fresh weight. <i>Planta</i> , 2000, 211, 841-845.	3.2	183
17	Coordination between zinc and phosphate homeostasis involves the transcription factor PHR1, the phosphate exporter PHO1, and its homologue PHO1;H3 in Arabidopsis. <i>Journal of Experimental Botany</i> , 2014, 65, 871-884.	4.8	174
18	Members of the PHO1 gene family show limited functional redundancy in phosphate transfer to the shoot, and are regulated by phosphate deficiency via distinct pathways. <i>Plant Journal</i> , 2007, 50, 982-994.	5.7	172

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19	Î ² -Oxidation in fatty acid degradation and beyond. <i>Current Opinion in Plant Biology</i> , 2007, 10, 245-251.	7.1	155
20	Guayule and Russian Dandelion as Alternative Sources of Natural Rubber. <i>Critical Reviews in Biotechnology</i> , 2007, 27, 217-231.	9.0	146
21	Production of renewable polymers from crop plants. <i>Plant Journal</i> , 2008, 54, 684-701.	5.7	141
22	Phosphate Deficiency Induces the Jasmonate Pathway and Enhances Resistance to Insect Herbivory. <i>Plant Physiology</i> , 2016, 171, 632-644.	4.8	138
23	Uncoupling phosphate deficiency from its major effects on growth and transcriptome via PHO1 expression in Arabidopsis. <i>Plant Journal</i> , 2011, 65, 557-570.	5.7	130
24	Functional expression of PHO1 to the Golgi and trans-Golgi network and its role in export of inorganic phosphate. <i>Plant Journal</i> , 2012, 71, 479-491.	5.7	125
25	Induction of the Arabidopsis PHO1;H10 Gene by 12-Oxo-Phytodienoic Acid But Not Jasmonic Acid via a CORONATINE INSENSITIVE1-Dependent Pathway. <i>Plant Physiology</i> , 2008, 147, 696-706.	4.8	124
26	The EXS Domain of PHO1 Participates in the Response of Shoots to Phosphate Deficiency via a Root-to-Shoot Signal. <i>Plant Physiology</i> , 2016, 170, 385-400.	4.8	116
27	The transcription factor PHR1 plays a key role in the regulation of sulfate shoot-to-root flux upon phosphate starvation in Arabidopsis. <i>BMC Plant Biology</i> , 2011, 11, 19.	3.6	112
28	Phosphate and zinc transport and signalling in plants: toward a better understanding of their homeostasis interaction. <i>Journal of Experimental Botany</i> , 2014, 65, 5725-5741.	4.8	109
29	Increased Flow of Fatty Acids toward Î ² -Oxidation in Developing Seeds of Arabidopsis Deficient in Diacylglycerol Acyltransferase Activity or Synthesizing Medium-Chain-Length Fatty Acids. <i>Plant Physiology</i> , 1999, 121, 1359-1366.	4.8	103
30	Control of plant phosphate homeostasis by inositol pyrophosphates and the SPX domain. <i>Current Opinion in Biotechnology</i> , 2018, 49, 156-162.	6.6	101
31	Overexpression of PHO1 in Arabidopsis leaves reveals its role in mediating phosphate efflux. <i>Plant Journal</i> , 2011, 66, 689-699.	5.7	95
32	Polyhydroxyalkanoate synthesis in plants as a tool for biotechnology and basic studies of lipid metabolism. <i>Progress in Lipid Research</i> , 2002, 41, 131-155.	11.6	88
33	Synthesis of Polyhydroxyalkanoate in the Peroxisome of <i>Saccharomyces cerevisiae</i> by Using Intermediates of Fatty Acid Î ² -Oxidation. <i>Applied and Environmental Microbiology</i> , 2001, 67, 5254-5260.	3.1	84
34	The protein acetylome and the regulation of metabolism. <i>Trends in Plant Science</i> , 2012, 17, 423-430.	8.8	81
35	Synthesis of polyhydroxyalkanoate in the peroxisome of <i>Pichia pastoris</i> . <i>FEMS Microbiology Letters</i> , 2002, 207, 97-102.	1.8	72
36	Disruption of <i>SULTR3;3</i> reduces phytate and phosphorus concentrations and alters the metabolite profile in rice grains. <i>New Phytologist</i> , 2016, 211, 926-939.	7.3	72

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37	Production of new polymeric compounds in plants. <i>Current Opinion in Biotechnology</i> , 1999, 10, 181-185.	6.6	69
38	Expression analyses of three members of the AtPHO1 family reveal differential interactions between signaling pathways involved in phosphate deficiency and the responses to auxin, cytokinin, and abscisic acid. <i>Planta</i> , 2008, 227, 1025-1036.	3.2	69
39	Polyhydroxyalkanoate synthesis in transgenic plants as a new tool to study carbon flow through beta-oxidation. <i>Plant Journal</i> , 1999, 20, 45-55.	5.7	64
40	Impact of Unusual Fatty Acid Synthesis on Futile Cycling through β -Oxidation and on Gene Expression in Transgenic Plants. <i>Plant Physiology</i> , 2004, 134, 432-442.	4.8	55
41	Roles of multiple acyl-CoA oxidases in the routing of carbon flow towards β -oxidation and polyhydroxyalkanoate biosynthesis in <i>Yarrowia lipolytica</i> . <i>FEMS Yeast Research</i> , 2010, 10, 917-927.	2.3	55
42	Perspectives on the production of polyhydroxyalkanoates in plants. <i>FEMS Microbiology Letters</i> , 1992, 103, 237-246.	1.8	49
43	Characterization of the <i>PHO1</i> Gene Family and the Responses to Phosphate Deficiency of <i>Physcomitrella patens</i> . <i>Plant Physiology</i> , 2008, 146, 646-656.	4.8	48
44	Molecular Identification and Characterization of the Arabidopsis β , γ -3,5, γ -2,4-Dienoyl-Coenzyme A Isomerase, a Peroxisomal Enzyme Participating in the β -Oxidation Cycle of Unsaturated Fatty Acids. <i>Plant Physiology</i> , 2005, 138, 1947-1956.	4.8	42
45	Characterization of a protein of the plastid inner envelope having homology to animal inorganic phosphate, chloride and organic-anion transporters. <i>Planta</i> , 2004, 218, 406-416.	3.2	41
46	Control of Cognate Sense mRNA Translation by cis-Natural Antisense RNAs. <i>Plant Physiology</i> , 2019, 180, 305-322.	4.8	41
47	Futile Cycling of Intermediates of Fatty Acid Biosynthesis toward Peroxisomal β -Oxidation in <i>Saccharomyces cerevisiae</i> . <i>Journal of Biological Chemistry</i> , 2003, 278, 32596-32601.	3.4	40
48	Peroxisomal polyhydroxyalkanoate biosynthesis is a promising strategy for bioplastic production in high biomass crops. <i>Plant Biotechnology Journal</i> , 2011, 9, 958-969.	8.3	39
49	<i>PHO1</i> expression in guard cells mediates the stomatal response to abscisic acid in Arabidopsis. <i>Plant Journal</i> , 2012, 72, 199-211.	5.7	37
50	Analysis of the Alternative Pathways for the β -Oxidation of Unsaturated Fatty Acids Using Transgenic Plants Synthesizing Polyhydroxyalkanoates in Peroxisomes. <i>Plant Physiology</i> , 2000, 124, 1159-1168.	4.8	36
51	Characterization of the <i>Aspergillus nidulans</i> biotin biosynthetic gene cluster and use of the bioDA gene as a new transformation marker. <i>Fungal Genetics and Biology</i> , 2011, 48, 208-215.	2.1	33
52	<i>ATP</i> citrate lyase activity is post-translationally regulated by sink strength and impacts the wax, cutin and rubber biosynthetic pathways. <i>Plant Journal</i> , 2014, 79, 270-284.	5.7	33
53	Identification and Functional Characterization of a Monofunctional Peroxisomal Enoyl-CoA Hydratase 2 That Participates in the Degradation of Even cis-Unsaturated Fatty Acids in Arabidopsis thaliana. <i>Journal of Biological Chemistry</i> , 2006, 281, 35894-35903.	3.4	32
54	Contributions of the Peroxisome and β -Oxidation Cycle to Biotin Synthesis in Fungi. <i>Journal of Biological Chemistry</i> , 2011, 286, 42133-42140.	3.4	32

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55	The Peroxisomal Acyl-CoA Thioesterase Pte1p from <i>Saccharomyces cerevisiae</i> Is Required for Efficient Degradation of Short Straight Chain and Branched Chain Fatty Acids. <i>Journal of Biological Chemistry</i> , 2006, 281, 11729-11735.	3.4	31
56	PHO1 Exports Phosphate from the Chalazal Seed Coat to the Embryo in Developing <i>Arabidopsis</i> Seeds. <i>Current Biology</i> , 2017, 27, 2893-2900.e3.	3.9	31
57	Phosphate acquisition and metabolism in plants. <i>Current Biology</i> , 2022, 32, R623-R629.	3.9	31
58	Concerted expression of a cell cycle regulator and a metabolic enzyme from a bicistronic transcript in plants. <i>Nature Plants</i> , 2019, 5, 184-193.	9.3	30
59	Peroxisomal $\hat{1}^3$, $\hat{1}^2$ $\hat{1}$ CoA isomerases and evolution of cytosolic paralogues in embryophytes. <i>Plant Journal</i> , 2008, 56, 728-742.	5.7	23
60	Prediction of regulatory long intergenic non-coding RNAs acting in trans through base-pairing interactions. <i>BMC Genomics</i> , 2019, 20, 601.	2.8	23
61	Expression of the mammalian Xenotropic Polytropic Virus Receptor 1 (XPR1) in tobacco leaves leads to phosphate export. <i>FEBS Letters</i> , 2014, 588, 482-489.	2.8	21
62	Modulation of Shoot Phosphate Level and Growth by <i>PHOSPHATE1</i> Upstream Open Reading Frame. <i>Plant Physiology</i> , 2020, 183, 1145-1156.	4.8	21
63	An antisense noncoding RNA enhances translation via localized structural rearrangements of its cognate mRNA. <i>Plant Cell</i> , 2021, 33, 1381-1397.	6.6	21
64	Modification of the Monomer Composition of Polyhydroxyalkanoate Synthesized in <i>Saccharomyces cerevisiae</i> Expressing Variants of the $\hat{1}^2$ -Oxidation-Associated Multifunctional Enzyme. <i>Applied and Environmental Microbiology</i> , 2003, 69, 6495-6499.	3.1	20
65	Making sense of the natural antisense transcript puzzle. <i>Trends in Plant Science</i> , 2021, 26, 1104-1115.	8.8	19
66	Critical Role of Transcript Cleavage in <i>Arabidopsis</i> RNA Polymerase II Transcriptional Elongation. <i>Plant Cell</i> , 2020, 32, 1449-1463.	6.6	18
67	Plants as factories for bioplastics and other novel biomaterials. , 2012, , 481-494.		16
68	Metabolic Engineering of Plants for the Synthesis of Polyhydroxyalkanoates. <i>Microbiology Monographs</i> , 2010, , 187-211.	0.6	14
69	Analysis of the $\hat{1}^2$ -oxidation of trans-unsaturated fatty acid in recombinant <i>Saccharomyces cerevisiae</i> expressing a peroxisomal PHA synthase reveals the involvement of a reductase-dependent pathway. <i>Biochimica Et Biophysica Acta - Molecular and Cell Biology of Lipids</i> , 2005, 1734, 169-177.	2.4	13
70	The transcription and export complex THO/TREX contributes to transcription termination in plants. <i>PLoS Genetics</i> , 2020, 16, e1008732.	3.5	11
71	PHO1 family members transport phosphate from infected nodule cells to bacteroids in <i>Medicago truncatula</i> . <i>Plant Physiology</i> , 2021, 185, 196-209.	4.8	11
72	Production of low phytic acid rice by hairpin RNA- and artificial microRNA-mediated silencing of OsMIK in seeds. <i>Plant Cell, Tissue and Organ Culture</i> , 2014, 119, 15-25.	2.3	10

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73	Analysis of the contribution of the $\hat{1}^2$ -oxidation auxiliary enzymes in the degradation of the dietary conjugated linoleic acid 9-cis-11-trans-octadecadienoic acid in the peroxisomes of <i>Saccharomyces cerevisiae</i> . <i>Biochimica Et Biophysica Acta - Molecular and Cell Biology of Lipids</i> , 2005, 1735, 204-213.	2.4	9
74	Post-translational Regulation of SPX Proteins for Coordinated Nutrient Signaling. <i>Molecular Plant</i> , 2019, 12, 1041-1043.	8.3	8
75	Repercussion of a deficiency in mitochondrial \hat{A}^{Y} -oxidation on the carbon flux of short-chain fatty acids to the peroxisomal \hat{A}^{Y} -oxidation cycle in <i>Aspergillus nidulans</i> . <i>Biochimica Et Biophysica Acta - Molecular and Cell Biology of Lipids</i> , 2010, 1801, 1386-1392.	2.4	5
76	Partitioning of above and below ground costs during phosphate stress in <i>Medicago truncatula</i> . <i>Journal of Plant Nutrition</i> , 2019, 42, 759-771.	1.9	0