Jean-Philippe F Ral

List of Publications by Year
in descending order

37 papers	4,839 citations	257450 24 h-index	345221 36 g-index
37 all docs	37 docs citations	37 times ranked	6009 citing authors

#	Article	IF	Citations
1	Over-Expression of a Wheat Late Maturity Alpha-Amylase Type 1 Impact on Starch Properties During Grain Development and Germination. Frontiers in Plant Science, 2022, 13, 811728.	3.6	2
2	How Does Starch Structure Impact Amylolysis? Review of Current Strategies for Starch Digestibility Study. Foods, 2022, 11, 1223.	4.3	8
3	Beyond amylose content, selecting starch traits impacting in vitro Î±-amylase degradability in a wheat MAGIC population. Carbohydrate Polymers, 2022, 291, 119652.	10.2	5
4	A transcriptional journey from sucrose to endosperm oil bodies in triple transgene oily wheat grain. Journal of Cereal Science, 2021, 100, 103268.	3.7	5
5	Overexpression of a wheat Î±â€amylase type 2 impact on starch metabolism and abscisic acid sensitivity during grain germination. Plant Journal, 2021, 108, 378-393.	5.7	6
6	Evaluation of the impact of heat on wheat dormancy, late maturity Î±-amylase and grain size under controlled conditions in diverse germplasm. Scientific Reports, 2020, 10, 17800.	3.3	13
7	Increasing growth and yield by altering carbon metabolism in a transgenic leaf oil crop. Plant Biotechnology Journal, 2020, 18, 2042-2052.	8.3	23
8	A biotechnological approach to directly assess the impact of elevated endogenous Î±â€amylase on Asian whiteâ€salted noodle quality. Starch/Staerke, 2018, 70, 1700089.	2.1	13
9	Does Late Maturity Alpha-Amylase Impact Wheat Baking Quality?. Frontiers in Plant Science, 2018, 9, 1356.	3.6	41
10	Genetic enhancement of oil content in potato tuber (<i>Solanum tuberosum</i> L.) through an integrated metabolic engineering strategy. Plant Biotechnology Journal, 2017, 15, 56-67.	8.3	68
11	Step changes in leaf oil accumulation via iterative metabolic engineering. Metabolic Engineering, 2017, 39, 237-246.	7.0	98
12	New insight in cereal starch degradation: identification and structural characterization of four Î±-amylases in bread wheat. Amylase, 2017, 1, .	1.6	29
13	Oil Accumulation in Transgenic Potato Tubers Alters Starch Quality and Nutritional Profile. Frontiers in Plant Science, 2017, 8, 554.	3.6	18
14	Transferring a Biomass Enhancement Biotechnology from Glasshouse to Field: A Case Study on Wheat GWD RNAi. Agronomy, 2017, 7, 82.	3.0	2
15	Engineering high Î±â€amylase levels in wheat grain lowers <scp>F</scp>alling <scp>N</scp>umber but improves baking properties. Plant Biotechnology Journal, 2016, 14, 364-376.	8.3	40
16	Suppression of glucan, water dikinase in the endosperm alters wheat grain properties, germination and coleoptile growth. Plant Biotechnology Journal, 2016, 14, 398-408.	8.3	29
17	Fast and Efficient Screening for Wheat Loss-of-Gene Mutants Using Multiplexed Melt Curve Analyses. PLoS ONE, 2016, 11, e0159955.	2.5	0
18	New Perspectives on the Role of Î±- and Î²-Amylases in Transient Starch Synthesis. PLoS ONE, 2014, 9, e100498.	2.5	25

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19	Engineering Î±-amylase levels in wheat grain suggests a highly sophisticated level of carbohydrate regulation during development. Journal of Experimental Botany, 2014, 65, 5443-5457.	4.8	48
20	Metabolic engineering of biomass for high energy density: oilseedâ€like triacylglycerol yields from plant leaves. Plant Biotechnology Journal, 2014, 12, 231-239.	8.3	256
21	GrainScan: a low cost, fast method for grain size and colour measurements. Plant Methods, 2014, 10, 23.	4.3	132
22	Fast-tracking development of homozygous transgenic cereal lines using a simple and highly flexible real-time PCR assay. BMC Plant Biology, 2013, 13, 71.	3.6	34
23	Down-regulation of glucan, water-dikinase activity in wheat endosperm increases vegetative biomass and yield. Plant Biotechnology Journal, 2013, 11, 390-391.	8.3	1
24	Differential effects of genetically distinct mechanisms of elevating amylose on barley starch characteristics. Carbohydrate Polymers, 2012, 89, 979-991.	10.2	59
25	Downâ€regulation of Glucan, Waterâ€Dikinase activity in wheat endosperm increases vegetative biomass and yield. Plant Biotechnology Journal, 2012, 10, 871-882.	8.3	52
26	Sponge and dough bread making: genetic and phenotypic relationships with wheat quality traits. Theoretical and Applied Genetics, 2010, 121, 815-828.	3.6	29
27	Genetic dissection of floridean starch synthesis in the cytosol of the model dinoflagellate <i>Crypthecodinium cohnii</i>. Proceedings of the National Academy of Sciences of the United States of America, 2009, 106, 21126-21130.	7.1	40
28	Pathway of Cytosolic Starch Synthesis in the Model Glaucophyte <i>Cyanophora paradoxa</i>. Eukaryotic Cell, 2008, 7, 247-257.	3.4	49
29	Resistant starch in cereals: Exploiting genetic engineering and genetic variation. Journal of Cereal Science, 2007, 46, 251-260.	3.7	82
30	The <i>Chlamydomonas</i> Genome Reveals the Evolution of Key Animal and Plant Functions. Science, 2007, 318, 245-250.	12.6	2,354
31	Genome analysis of the smallest free-living eukaryote Ostreococcus tauri unveils many unique features. Proceedings of the National Academy of Sciences of the United States of America, 2006, 103, 11647-11652.	7.1	809
32	Plastidial phosphorylase is required for normal starch synthesis inChlamydomonas reinhardtii. Plant Journal, 2006, 48, 274-285.	5.7	105
33	Circadian Clock Regulation of Starch Metabolism Establishes GBSSI as a Major Contributor to Amylopectin Synthesis in Chlamydomonas reinhardtii Â. Plant Physiology, 2006, 142, 305-317.	4.8	133
34	Starch Division and Partitioning. A Mechanism for Granule Propagation and Maintenance in the Picophytoplanktonic Green Alga Ostreococcus tauri. Plant Physiology, 2004, 136, 3333-3340.	4.8	80
35	STA11, a Chlamydomonas reinhardtii Locus Required for Normal Starch Granule Biogenesis, Encodes Disproportionating Enzyme. Further Evidence for a Function of Î±-1,4 Glucanotransferases during Starch Granule Biosynthesis in Green Algae. Plant Physiology, 2003, 132, 137-145.	4.8	47
36	Granule-bound starch synthaseâ€ƒI. FEBS Journal, 2002, 269, 3810-3820.	0.2	50

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37	Biochemical Characterization of Wild-Type and Mutant Isoamylases of Chlamydomonas reinhardtii Supports a Function of the Multimeric Enzyme Organization in Amylopectin Maturation. Plant Physiology, 2001, 125, 1723-1731.	4.8	54