

Olivier Loudet

List of Publications by Year in descending order

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55
papers

4,898
citations

101384

36
h-index

155451

55
g-index

61
all docs

61
docs citations

61
times ranked

6334
citing authors

#	ARTICLE	IF	CITATIONS
1	The Scale of Population Structure in <i>Arabidopsis thaliana</i> . <i>PLoS Genetics</i> , 2010, 6, e1000843.	1.5	338
2	Bay-0—Shahdara recombinant inbred line population: a powerful tool for the genetic dissection of complex traits in <i>Arabidopsis</i> . <i>Theoretical and Applied Genetics</i> , 2002, 104, 1173-1184.	1.8	276
3	Divergent Evolution of Duplicate Genes Leads to Genetic Incompatibilities Within <i>A. thaliana</i> . <i>Science</i> , 2009, 323, 623-626.	6.0	264
4	High contiguity <i>Arabidopsis thaliana</i> genome assembly with a single nanopore flow cell. <i>Nature Communications</i> , 2018, 9, 541.	5.8	243
5	Leaf Fructose Content Is Controlled by the Vacuolar Transporter SWEET17 in <i>Arabidopsis</i> . <i>Current Biology</i> , 2013, 23, 697-702.	1.8	214
6	Identification of QTL controlling root growth response to phosphate starvation in <i>Arabidopsis thaliana</i> . <i>Plant, Cell and Environment</i> , 2006, 29, 115-125.	2.8	205
7	Leaf Yellowing and Anthocyanin Accumulation are Two Genetically Independent Strategies in Response to Nitrogen Limitation in <i>Arabidopsis thaliana</i> . <i>Plant and Cell Physiology</i> , 2006, 47, 74-83.	1.5	194
8	Quantitative Trait Loci Analysis of Nitrogen Use Efficiency in <i>Arabidopsis</i> . <i>Plant Physiology</i> , 2003, 131, 345-358.	2.3	184
9	Natural variation for sulfate content in <i>Arabidopsis thaliana</i> is highly controlled by APR2. <i>Nature Genetics</i> , 2007, 39, 896-900.	9.4	156
10	Quantitative trait loci controlling root growth and architecture in <i>Arabidopsis thaliana</i> confirmed by heterogeneous inbred family. <i>Theoretical and Applied Genetics</i> , 2005, 110, 742-753.	1.8	146
11	Phenoscope: an automated large-scale phenotyping platform offering high spatial homogeneity. <i>Plant Journal</i> , 2013, 74, 534-544.	2.8	146
12	Quantitative Trait Loci Mapping in Five New Large Recombinant Inbred Line Populations of <i>Arabidopsis thaliana</i> Genotyped With Consensus Single-Nucleotide Polymorphism Markers. <i>Genetics</i> , 2008, 178, 2253-2264.	1.2	145
13	Metabolite profiling and quantitative genetics of natural variation for flavonoids in <i>Arabidopsis</i> . <i>Journal of Experimental Botany</i> , 2012, 63, 3749-3764.	2.4	131
14	A Naturally Occurring Mutation in an <i>Arabidopsis</i> Accession Affects a β -Galactosidase That Increases the Hydrophilic Potential of Rhamnogalacturonan I in Seed Mucilage. <i>Plant Cell</i> , 2008, 19, 3990-4006.	3.1	123
15	Identification of QTLs controlling gene expression networks defined a priori. <i>BMC Bioinformatics</i> , 2006, 7, 308.	1.2	122
16	Rapid Establishment of Genetic Incompatibility through Natural Epigenetic Variation. <i>Current Biology</i> , 2012, 22, 326-331.	1.8	122
17	Extensive Natural Epigenetic Variation at a De Novo Originated Gene. <i>PLoS Genetics</i> , 2013, 9, e1003437.	1.5	114
18	New Strategies and Tools in Quantitative Genetics: How to Go from the Phenotype to the Genotype. <i>Annual Review of Plant Biology</i> , 2017, 68, 435-455.	8.6	100

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19	QTL Mapping in New Arabidopsis thaliana Advanced Intercross-Recombinant Inbred Lines. PLoS ONE, 2009, 4, e4318.	1.1	92
20	Natural Variation at the FRD3 MATE Transporter Locus Reveals Cross-Talk between Fe Homeostasis and Zn Tolerance in Arabidopsis thaliana. PLoS Genetics, 2012, 8, e1003120.	1.5	89
21	Light-Response Quantitative Trait Loci Identified with Composite Interval and eXtreme Array Mapping in Arabidopsis thaliana Sequence data from this article have been deposited with the EMBL/GenBank Data Libraries under accession nos. AY394847 and AY466496.. Genetics, 2004, 167, 907-917.	1.2	83
22	Lessons from eQTL mapping studies: non-coding regions and their role behind natural phenotypic variation in plants. Current Opinion in Plant Biology, 2012, 15, 192-198.	3.5	83
23	The Response of Root/Shoot Partitioning and Root Morphology to Light Reduction in Maize Genotypes. Crop Science, 2001, 41, 363-371.	0.8	80
24	Extensive cis-Regulatory Variation Robust to Environmental Perturbation in Arabidopsis. Plant Cell, 2014, 26, 4298-4310.	3.1	77
25	Quantitative Trait Loci Analysis of Water and Anion Contents in Interaction With Nitrogen Availability in Arabidopsis thaliana. Genetics, 2003, 163, 711-722.	1.2	73
26	A Potassium-Dependent Oxygen Sensing Pathway Regulates Plant Root Hydraulics. Cell, 2016, 167, 87-98.e14.	13.5	72
27	A zinc knuckle protein that negatively controls morning-specific growth in Arabidopsis thaliana. Proceedings of the National Academy of Sciences of the United States of America, 2008, 105, 17193-17198.	3.3	67
28	What does Arabidopsis natural variation teach us (and does not teach us) about adaptation in plants?. Current Opinion in Plant Biology, 2011, 14, 225-231.	3.5	67
29	Natural variation at XND1 impacts root hydraulics and trade-off for stress responses in Arabidopsis. Nature Communications, 2018, 9, 3884.	5.8	67
30	Natural Variation in the ATPS1 Isoform of ATP Sulfurylase Contributes to the Control of Sulfate Levels in Arabidopsis. Plant Physiology, 2013, 163, 1133-1141.	2.3	60
31	Disentangling the Intertwined Genetic Bases of Root and Shoot Growth in Arabidopsis. PLoS ONE, 2012, 7, e32319.	1.1	60
32	Natural Variation for Carbohydrate Content in Arabidopsis. Interaction with Complex Traits Dissected by Quantitative Genetics. Plant Physiology, 2006, 141, 1630-1643.	2.3	59
33	Influence of mutation rate on estimators of genetic differentiation - lessons from Arabidopsis thaliana. BMC Genetics, 2010, 11, 33.	2.7	53
34	Mild drought in the vegetative stage induces phenotypic, gene expression, and DNA methylation plasticity in Arabidopsis but no transgenerational effects. Journal of Experimental Botany, 2020, 71, 3588-3602.	2.4	48
35	Analysis of Natural Allelic Variation Controlling Arabidopsis thaliana Seed Germinability in Response to Cold and Dark: Identification of Three Major Quantitative Trait Loci. Molecular Plant, 2008, 1, 145-154.	3.9	42
36	Quantitative Trait Loci Analysis of Primary Cell Wall Composition in Arabidopsis. Plant Physiology, 2006, 141, 1035-1044.	2.3	39

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37	Gene Transposition Causing Natural Variation for Growth in <i>Arabidopsis thaliana</i> . <i>PLoS Genetics</i> , 2010, 6, e1000945.	1.5	38
38	Local Evolution of Seed Flotation in <i>Arabidopsis</i> . <i>PLoS Genetics</i> , 2014, 10, e1004221.	1.5	38
39	Allelic Heterogeneity and Trade-Off Shape Natural Variation for Response to Soil Micronutrient. <i>PLoS Genetics</i> , 2012, 8, e1002814.	1.5	35
40	Expression variation in connected recombinant populations of <i>Arabidopsis thaliana</i> highlights distinct transcriptome architectures. <i>BMC Genomics</i> , 2012, 13, 117.	1.2	34
41	A pair of receptor-like kinases is responsible for natural variation in shoot growth response to mannitol treatment in <i>Arabidopsis thaliana</i> . <i>Plant Journal</i> , 2014, 78, 121-133.	2.8	34
42	Natural Variation in Partial Resistance to <i>Pseudomonas syringae</i> Is Controlled by Two Major QTLs in <i>Arabidopsis thaliana</i> . <i>PLoS ONE</i> , 2006, 1, e123.	1.1	33
43	Natural Variation in Seed Very Long Chain Fatty Acid Content Is Controlled by a New Isoform of KCS18 in <i>Arabidopsis thaliana</i> . <i>PLoS ONE</i> , 2012, 7, e49261.	1.1	28
44	The complex genetic architecture of shoot growth natural variation in <i>Arabidopsis thaliana</i> . <i>PLoS Genetics</i> , 2019, 15, e1007954.	1.5	27
45	DNA fingerprinting and new tools for fine-scale discrimination of <i>Arabidopsis thaliana</i> accessions. <i>Plant Journal</i> , 2012, 69, 1094-1101.	2.8	26
46	An <i>Arabidopsis</i> Natural Epiallele Maintained by a Feed-Forward Silencing Loop between Histone and DNA. <i>PLoS Genetics</i> , 2017, 13, e1006551.	1.5	25
47	SHOOT GROWTH1 Maintains <i>Arabidopsis</i> Epigenomes by Regulating IBM1. <i>PLoS ONE</i> , 2014, 9, e84687.	1.1	24
48	AraQTL – a workbench and archive for systems genetics in <i>Arabidopsis thaliana</i> . <i>Plant Journal</i> , 2017, 89, 1225-1235.	2.8	24
49	Identification of Quantitative Trait Loci Controlling Symptom Development During Viral Infection in <i>Arabidopsis thaliana</i> . <i>Molecular Plant-Microbe Interactions</i> , 2008, 21, 198-207.	1.4	19
50	Leaf Segmentation and Tracking in <i>Arabidopsis thaliana</i> Combined to an Organ-Scale Plant Model for Genotypic Differentiation. <i>Frontiers in Plant Science</i> , 2016, 7, 2057.	1.7	18
51	Natural variation at FLM splicing has pleiotropic effects modulating ecological strategies in <i>Arabidopsis thaliana</i> . <i>Nature Communications</i> , 2020, 11, 4140.	5.8	17
52	Abiotic stress, stress combinations and crop improvement potential. <i>Plant Journal</i> , 2017, 90, 837-838.	2.8	12
53	The Evolutionary Dynamics of Genetic Incompatibilities Introduced by Duplicated Genes in <i>Arabidopsis thaliana</i> . <i>Molecular Biology and Evolution</i> , 2021, 38, 1225-1240.	3.5	11
54	Inférence de réseaux de régulation de gènes au travers de scores attendus dans les réseaux bayésiens. <i>Revue D'Intelligence Artificielle</i> , 2012, 26, 679-708.	0.5	1

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55	Editorial Overview: Genome studies and molecular genetics: Genomic approaches to understanding evolution, development and the plant phenome. <i>Current Opinion in Plant Biology</i> , 2014, 18, v-vi.	3.5	0