

# Olivier Loudet

## List of Publications by Year in descending order

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55  
papers

4,898  
citations

101384

36  
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155451

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61  
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61  
docs citations

61  
times ranked

6334  
citing authors

#	ARTICLE	IF	CITATIONS
1	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
2	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
3	Mild drought in the vegetative stage induces phenotypic, gene expression, and DNA methylation plasticity in <i>Arabidopsis</i> but no transgenerational effects. <i>Journal of Experimental Botany</i> , 2020, 71, 3588-3602.	2.4	48
4	The complex genetic architecture of shoot growth natural variation in <i>Arabidopsis thaliana</i> . <i>PLoS Genetics</i> , 2019, 15, e1007954.	1.5	27
5	High contiguity <i>Arabidopsis thaliana</i> genome assembly with a single nanopore flow cell. <i>Nature Communications</i> , 2018, 9, 541.	5.8	243
6	Natural variation at XND1 impacts root hydraulics and trade-off for stress responses in <i>Arabidopsis</i> . <i>Nature Communications</i> , 2018, 9, 3884.	5.8	67
7	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
8	Abiotic stress, stress combinations and crop improvement potential. <i>Plant Journal</i> , 2017, 90, 837-838.	2.8	12
9	AraQTL – a working bench and archive for systems genetics in <i>Arabidopsis thaliana</i> . <i>Plant Journal</i> , 2017, 89, 1225-1235.	2.8	24
10	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
11	A Potassium-Dependent Oxygen Sensing Pathway Regulates Plant Root Hydraulics. <i>Cell</i> , 2016, 167, 87-98.e14.	13.5	72
12	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
13	SHOOT GROWTH1 Maintains <i>Arabidopsis</i> Epigenomes by Regulating IBM1. <i>PLoS ONE</i> , 2014, 9, e84687.	1.1	24
14	Local Evolution of Seed Flotation in <i>Arabidopsis</i> . <i>PLoS Genetics</i> , 2014, 10, e1004221.	1.5	38
15	Extensive cis-Regulatory Variation Robust to Environmental Perturbation in <i>Arabidopsis</i> . <i>Plant Cell</i> , 2014, 26, 4298-4310.	3.1	77
16	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
17	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
18	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

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19	Phenoscope: an automated large-scale phenotyping platform offering high spatial homogeneity. <i>Plant Journal</i> , 2013, 74, 534-544.	2.8	146
20	Extensive Natural Epigenetic Variation at a De Novo Originated Gene. <i>PLoS Genetics</i> , 2013, 9, e1003437.	1.5	114
21	Natural Variation in the ATPS1 Isoform of ATP Sulfurylase Contributes to the Control of Sulfate Levels in Arabidopsis. <i>Plant Physiology</i> , 2013, 163, 1133-1141.	2.3	60
22	Natural Variation at the FRD3 MATE Transporter Locus Reveals Cross-Talk between Fe Homeostasis and Zn Tolerance in Arabidopsis thaliana. <i>PLoS Genetics</i> , 2012, 8, e1003120.	1.5	89
23	Allelic Heterogeneity and Trade-Off Shape Natural Variation for Response to Soil Micronutrient. <i>PLoS Genetics</i> , 2012, 8, e1002814.	1.5	35
24	Metabolite profiling and quantitative genetics of natural variation for flavonoids in Arabidopsis. <i>Journal of Experimental Botany</i> , 2012, 63, 3749-3764.	2.4	131
25	Expression variation in connected recombinant populations of Arabidopsis thaliana highlights distinct transcriptome architectures. <i>BMC Genomics</i> , 2012, 13, 117.	1.2	34
26	Natural Variation in Seed Very Long Chain Fatty Acid Content Is Controlled by a New Isoform of KCS18 in Arabidopsis thaliana. <i>PLoS ONE</i> , 2012, 7, e49261.	1.1	28
27	Rapid Establishment of Genetic Incompatibility through Natural Epigenetic Variation. <i>Current Biology</i> , 2012, 22, 326-331.	1.8	122
28	Lessons from eQTL mapping studies: non-coding regions and their role behind natural phenotypic variation in plants. <i>Current Opinion in Plant Biology</i> , 2012, 15, 192-198.	3.5	83
29	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
30	Disentangling the Intertwined Genetic Bases of Root and Shoot Growth in Arabidopsis. <i>PLoS ONE</i> , 2012, 7, e32319.	1.1	60
31	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
32	What does Arabidopsis natural variation teach us (and does not teach us) about adaptation in plants?. <i>Current Opinion in Plant Biology</i> , 2011, 14, 225-231.	3.5	67
33	Influence of mutation rate on estimators of genetic differentiation - lessons from Arabidopsis thaliana. <i>BMC Genetics</i> , 2010, 11, 33.	2.7	53
34	The Scale of Population Structure in Arabidopsis thaliana. <i>PLoS Genetics</i> , 2010, 6, e1000843.	1.5	338
35	Gene Transposition Causing Natural Variation for Growth in Arabidopsis thaliana. <i>PLoS Genetics</i> , 2010, 6, e1000945.	1.5	38
36	Divergent Evolution of Duplicate Genes Leads to Genetic Incompatibilities Within <i>A. thaliana</i> . <i>Science</i> , 2009, 323, 623-626.	6.0	264

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37	QTL Mapping in New Arabidopsis thaliana Advanced Intercross-Recombinant Inbred Lines. PLoS ONE, 2009, 4, e4318.	1.1	92
38	A Naturally Occurring Mutation in an Arabidopsis Accession Affects a $\beta$ -Galactosidase That Increases the Hydrophilic Potential of Rhamnogalacturonan I in Seed Mucilage. Plant Cell, 2008, 19, 3990-4006.	3.1	123
39	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
40	Quantitative Trait Loci Mapping in Five New Large Recombinant Inbred Line Populations of Arabidopsis thaliana Genotyped With Consensus Single-Nucleotide Polymorphism Markers. Genetics, 2008, 178, 2253-2264.	1.2	145
41	Identification of Quantitative Trait Loci Controlling Symptom Development During Viral Infection in Arabidopsis thaliana. Molecular Plant-Microbe Interactions, 2008, 21, 198-207.	1.4	19
42	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
43	Natural variation for sulfate content in Arabidopsis thaliana is highly controlled by APR2. Nature Genetics, 2007, 39, 896-900.	9.4	156
44	Natural Variation in Partial Resistance to Pseudomonas syringae Is Controlled by Two Major QTLs in Arabidopsis thaliana. PLoS ONE, 2006, 1, e123.	1.1	33
45	Identification of QTL controlling root growth response to phosphate starvation in Arabidopsis thaliana. Plant, Cell and Environment, 2006, 29, 115-125.	2.8	205
46	Identification of QTLs controlling gene expression networks defined a priori. BMC Bioinformatics, 2006, 7, 308.	1.2	122
47	Leaf Yellowing and Anthocyanin Accumulation are Two Genetically Independent Strategies in Response to Nitrogen Limitation in Arabidopsis thaliana. Plant and Cell Physiology, 2006, 47, 74-83.	1.5	194
48	Natural Variation for Carbohydrate Content in Arabidopsis. Interaction with Complex Traits Dissected by Quantitative Genetics. Plant Physiology, 2006, 141, 1630-1643.	2.3	59
49	Quantitative Trait Loci Analysis of Primary Cell Wall Composition in Arabidopsis. Plant Physiology, 2006, 141, 1035-1044.	2.3	39
50	Quantitative trait loci controlling root growth and architecture in Arabidopsis thaliana confirmed by heterogeneous inbred family. Theoretical and Applied Genetics, 2005, 110, 742-753.	1.8	146
51	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
52	Quantitative Trait Loci Analysis of Nitrogen Use Efficiency in Arabidopsis. Plant Physiology, 2003, 131, 345-358.	2.3	184
53	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
54	Bay-Shahdara recombinant inbred line population: a powerful tool for the genetic dissection of complex traits in Arabidopsis. Theoretical and Applied Genetics, 2002, 104, 1173-1184.	1.8	276

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55	The Response of Root/Shoot Partitioning and Root Morphology to Light Reduction in Maize Genotypes. Crop Science, 2001, 41, 363-371.	0.8	80