

Nicolas B Langlade

List of Publications by Year in descending order

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Version: 2024-02-01

53
papers

3,276
citations

185998

28
h-index

182168

51
g-index

60
all docs

60
docs citations

60
times ranked

4214
citing authors

#	ARTICLE	IF	CITATIONS
1	The sunflower genome provides insights into oil metabolism, flowering and Asterid evolution. <i>Nature</i> , 2017, 546, 148-152.	13.7	579
2	Physiological Aspects of Cluster Root Function and Development in Phosphorus-deficient White Lupin (<i>Lupinus albus</i> L.). <i>Annals of Botany</i> , 2000, 85, 909-919.	1.4	304
3	Targeted mRNA Oxidation Regulates Sunflower Seed Dormancy Alleviation during Dry After-Ripening. <i>Plant Cell</i> , 2011, 23, 2196-2208.	3.1	180
4	Sunflower pan-genome analysis shows that hybridization altered gene content and disease resistance. <i>Nature Plants</i> , 2019, 5, 54-62.	4.7	172
5	Extraction of high-molecular-weight genomic DNA for long-read sequencing of single molecules. <i>BioTechniques</i> , 2016, 61, 203-205.	0.8	162
6	Evolution through genetically controlled allometry space. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2005, 102, 10221-10226.	3.3	159
7	Evolutionary Paths Underlying Flower Color Variation in <i>Antirrhinum</i> . <i>Science</i> , 2006, 313, 963-966.	6.0	153
8	Reactive oxygen species, abscisic acid and ethylene interact to regulate sunflower seed germination. <i>Plant, Cell and Environment</i> , 2015, 38, 364-374.	2.8	125
9	Metabolic changes associated with cluster root development in white lupin (<i>Lupinus albus</i> L.): relationship between organic acid excretion, sucrose metabolism and energy status. <i>Planta</i> , 2001, 213, 534-542.	1.6	103
10	Sunflower crop and climate change: vulnerability, adaptation, and mitigation potential from case-studies in Europe. <i>OCL - Oilseeds and Fats, Crops and Lipids</i> , 2017, 24, D102.	0.6	95
11	Tinkering with the C-Function: A Molecular Frame for the Selection of Double Flowers in Cultivated Roses. <i>PLoS ONE</i> , 2010, 5, e9288.	1.1	94
12	Fortune telling: metabolic markers of plant performance. <i>Metabolomics</i> , 2016, 12, 158.	1.4	89
13	Progress towards a reference genome for sunflower. <i>Botany</i> , 2011, 89, 429-437.	0.5	67
14	Genetic control of plasticity of oil yield for combined abiotic stresses using a joint approach of crop modelling and genome-wide association. <i>Plant, Cell and Environment</i> , 2017, 40, 2276-2291.	2.8	66
15	Isoflavonoid exudation from white lupin roots is influenced by phosphate supply, root type and cluster-root stage. <i>New Phytologist</i> , 2006, 171, 657-668.	3.5	65
16	A Gene-Phenotype Network Based on Genetic Variability for Drought Responses Reveals Key Physiological Processes in Controlled and Natural Environments. <i>PLoS ONE</i> , 2012, 7, e45249.	1.1	58
17	Phosphorus deficiency-induced modifications in citrate catabolism and in cytosolic pH as related to citrate exudation in cluster roots of white lupin. <i>Plant and Soil</i> , 2003, 248, 117-127.	1.8	52
18	Genetic Control of Water Use Efficiency and Leaf Carbon Isotope Discrimination in Sunflower (<i>Helianthus annuus</i> L.) Subjected to Two Drought Scenarios. <i>PLoS ONE</i> , 2014, 9, e101218.	1.1	50

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19	Consensus mapping of major resistance genes and independent QTL for quantitative resistance to sunflower downy mildew. <i>Theoretical and Applied Genetics</i> , 2012, 125, 909-920.	1.8	48
20	Combined linkage and association mapping of flowering time in Sunflower (<i>Helianthus annuus</i> L.). <i>Theoretical and Applied Genetics</i> , 2013, 126, 1337-1356.	1.8	48
21	Mutational spaces for leaf shape and size. <i>HFSP Journal</i> , 2008, 2, 110-120.	2.5	45
22	Genetic analysis of phytosterol content in sunflower seeds. <i>Theoretical and Applied Genetics</i> , 2012, 125, 1589-1601.	1.8	45
23	Comparison of GWAS models to identify non-additive genetic control of flowering time in sunflower hybrids. <i>Theoretical and Applied Genetics</i> , 2018, 131, 319-332.	1.8	38
24	Is Gene Transcription Involved in Seed Dry After-Ripening?. <i>PLoS ONE</i> , 2014, 9, e86442.	1.1	38
25	Translatome profiling in dormant and nondormant sunflower (<i>Helianthus annuus</i>) seeds highlights post-transcriptional regulation of germination. <i>New Phytologist</i> , 2014, 204, 864-872.	3.5	36
26	Heliaphen, an Outdoor High-Throughput Phenotyping Platform for Genetic Studies and Crop Modeling. <i>Frontiers in Plant Science</i> , 2018, 9, 1908.	1.7	34
27	Effects of plant growth stage and leaf aging on the response of transpiration and photosynthesis to water deficit in sunflower. <i>Functional Plant Biology</i> , 2016, 43, 797.	1.1	31
28	Genomic Prediction of Sunflower Hybrids Oil Content. <i>Frontiers in Plant Science</i> , 2017, 8, 1633.	1.7	31
29	ATP citrate lyase: cloning, heterologous expression and possible implication in root organic acid metabolism and excretion. <i>Plant, Cell and Environment</i> , 2002, 25, 1561-1569.	2.8	30
30	Genetic dissection of tocopherol and phytosterol in recombinant inbred lines of sunflower through quantitative trait locus analysis and the candidate gene approach. <i>Molecular Breeding</i> , 2012, 29, 717-729.	1.0	25
31	A biomarker based on gene expression indicates plant water status in controlled and natural environments. <i>Plant, Cell and Environment</i> , 2013, 36, 2175-2189.	2.8	25
32	The genetic basis for natural variation in heteroblasty in <i>Antirrhinum</i> . <i>New Phytologist</i> , 2012, 196, 1251-1259.	3.5	24
33	Gene banks for wild and cultivated sunflower genetic resources. <i>OCL - Oilseeds and Fats, Crops and Lipids</i> , 2020, 27, 9.	0.6	20
34	Metabolomic characterization of sunflower leaf allows discriminating genotype groups or stress levels with a minimal set of metabolic markers. <i>Metabolomics</i> , 2019, 15, 56.	1.4	17
35	Data describing the eco-physiological responses of twenty-four sunflower genotypes to water deficit. <i>Data in Brief</i> , 2018, 21, 1296-1301.	0.5	16
36	Bridging physiological and evolutionary time-scales in a gene regulatory network. <i>New Phytologist</i> , 2014, 203, 685-696.	3.5	15

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37	One Way to Achieve Germination: Common Molecular Mechanism Induced by Ethylene and After-Ripening in Sunflower Seeds. <i>International Journal of Molecular Sciences</i> , 2018, 19, 2464.	1.8	15
38	New challenges for sunflower ideotyping in changing environments and more ecological cropping systems. <i>OCL - Oilseeds and Fats, Crops and Lipids</i> , 2021, 28, 29.	0.6	15
39	A multiscale approach reveals regulatory players of water stress responses in seeds during germination. <i>Plant, Cell and Environment</i> , 2020, 43, 1300-1313.	2.8	14
40	Molecular diversity of sunflower populations maintained as genetic resources is affected by multiplication processes and breeding for major traits. <i>Theoretical and Applied Genetics</i> , 2017, 130, 1099-1112.	1.8	12
41	Expression complementation of gene presence/absence polymorphisms in hybrids contributes importantly to heterosis in sunflower. <i>Journal of Advanced Research</i> , 2022, 42, 83-98.	4.4	12
42	Exploring gene networks in two sunflower lines with contrasting leaf senescence phenotype using a system biology approach. <i>BMC Plant Biology</i> , 2019, 19, 446.	1.6	10
43	Different genetic architectures underlie crop responses to the same pathogen: the { <i>Helianthus annuus</i> * <i>Phoma macdonaldii</i> } interaction case for black stem disease and premature ripening. <i>BMC Plant Biology</i> , 2017, 17, 167.	1.6	7
44	Maternal drought stress induces abiotic stress tolerance to the progeny at the germination stage in sunflower. <i>Environmental and Experimental Botany</i> , 2022, , 104939.	2.0	7
45	Extraction of high-molecular-weight genomic DNA for long-read sequencing of single molecules. <i>BioTechniques</i> , 2017, 62, xv.	0.8	6
46	Proteomic data from leaves of twenty-four sunflower genotypes under water deficit. <i>OCL - Oilseeds and Fats, Crops and Lipids</i> , 2021, 28, 12.	0.6	6
47	Genome-wide and comparative phylogenetic analysis of senescence-associated NAC transcription factors in sunflower (<i>Helianthus annuus</i>). <i>BMC Genomics</i> , 2021, 22, 893.	1.2	6
48	Transcriptomic data of leaves from eight sunflower lines and their sixteen hybrids under water deficit. <i>OCL - Oilseeds and Fats, Crops and Lipids</i> , 2020, 27, 48.	0.6	5
49	RNA expression dataset of 384 sunflower hybrids in field condition. <i>OCL - Oilseeds and Fats, Crops and Lipids</i> , 2020, 27, 36.	0.6	4
50	Optimized cultivar deployment improves the efficiency and stability of sunflower crop production at national scale. <i>Theoretical and Applied Genetics</i> , 2022, 135, 4049-4063.	1.8	4
51	Leaf metabolomic data of eight sunflower lines and their sixteen hybrids under water deficit. <i>OCL - Oilseeds and Fats, Crops and Lipids</i> , 2021, 28, 42.	0.6	2
52	Phosphorus deficiency-induced modifications in citrate catabolism and in cytosolic pH as related to citrate exudation in cluster roots of white lupin. , 2003, , 117-127.		2
53	Gene regulatory network inference methodology for genomic and transcriptomic data acquired in genetically related heterozygote individuals. <i>Bioinformatics</i> , 2022, 38, 4127-4134.	1.8	0