

# Xavier Draye

## List of Publications by Year in descending order

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42  
papers

3,935  
citations

186265

28  
h-index

265206

42  
g-index

46  
all docs

46  
docs citations

46  
times ranked

4985  
citing authors

#	ARTICLE	IF	CITATIONS
1	Root system architecture: opportunities and constraints for genetic improvement of crops. <i>Trends in Plant Science</i> , 2007, 12, 474-481.	8.8	608
2	A Novel Image-Analysis Toolbox Enabling Quantitative Analysis of Root System Architecture. <i>Plant Physiology</i> , 2011, 157, 29-39.	4.8	430
3	Meta-analysis of Polyploid Cotton QTL Shows Unequal Contributions of Subgenomes to a Complex Network of Genes and Gene Clusters Implicated in Lint Fiber Development. <i>Genetics</i> , 2007, 176, 2577-2588.	2.9	240
4	Novel scanning procedure enabling the vectorization of entire rhizotron-grown root systems. <i>Plant Methods</i> , 2013, 9, 1.	4.3	214
5	An online database for plant image analysis software tools. <i>Plant Methods</i> , 2013, 9, 38.	4.3	175
6	Model-assisted integration of physiological and environmental constraints affecting the dynamic and spatial patterns of root water uptake from soils. <i>Journal of Experimental Botany</i> , 2010, 61, 2145-2155.	4.8	166
7	RBOH-mediated ROS production facilitates lateral root emergence in Arabidopsis. <i>Development (Cambridge)</i> , 2016, 143, 3328-39.	2.5	152
8	The expression pattern of plasma membrane aquaporins in maize leaf highlights their role in hydraulic regulation. <i>Plant Molecular Biology</i> , 2008, 68, 337-353.	3.9	142
9	Genome-wide analysis of yield in Europe: allelic effects as functions of drought and heat scenarios. <i>Plant Physiology</i> , 2016, 172, pp.00621.2016.	4.8	140
10	DART: a software to analyse root system architecture and development from captured images. <i>Plant and Soil</i> , 2010, 326, 261-273.	3.7	118
11	Molecular dissection of complex traits in autopolyploids: mapping QTLs affecting sugar yield and related traits in sugarcane. <i>Theoretical and Applied Genetics</i> , 2002, 105, 332-345.	3.6	116
12	Effects, distribution and uptake of silicon in banana ( <i>Musa spp.</i> ) under controlled conditions. <i>Plant and Soil</i> , 2006, 287, 359-374.	3.7	116
13	Molecular dissection of interspecific variation between <i>Gossypium hirsutum</i> and <i>Gossypium barbadense</i> (cotton) by a backcross-self approach: I. Fiber elongation. <i>Theoretical and Applied Genetics</i> , 2005, 111, 757-763.	3.6	94
14	The Xerobranching Response Represses Lateral Root Formation When Roots Are Not in Contact with Water. <i>Current Biology</i> , 2018, 28, 3165-3173.e5.	3.9	94
15	Silicon Isotopic Fractionation by Banana ( <i>Musa spp.</i> ) Grown in a Continuous Nutrient Flow Device. <i>Plant and Soil</i> , 2006, 285, 333-345.	3.7	88
16	Molecular dissection of phenotypic variation between <i>Gossypium hirsutum</i> and <i>Gossypium barbadense</i> (cotton) by a backcross-self approach: III. Fiber length. <i>Theoretical and Applied Genetics</i> , 2005, 111, 772-781.	3.6	83
17	Toward Integration of Comparative Genetic, Physical, Diversity, and Cytomolecular Maps for Grasses and Grains, Using the Sorghum Genome as a Foundation. <i>Plant Physiology</i> , 2001, 125, 1325-1341.	4.8	81
18	QTL mapping for biomass and physiological parameters linked to resistance mechanisms to ferrous iron toxicity in rice. <i>Euphytica</i> , 2009, 167, 143-160.	1.2	81

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19	Molecular dissection of interspecific variation between <i>Gossypium hirsutum</i> and <i>G. barbadense</i> (cotton) by a backcross-self approach: II. Fiber fineness. <i>Theoretical and Applied Genetics</i> , 2005, 111, 764-771.	3.6	72
20	The relationship of stem and seed yields to flowering phenology and sex expression in monoecious hemp ( <i>Cannabis sativa</i> L.). <i>European Journal of Agronomy</i> , 2013, 47, 11-22.	4.1	72
21	Water permeability differs between growing and non-growing barley leaf tissues. <i>Journal of Experimental Botany</i> , 2006, 58, 377-390.	4.8	68
22	Shoot and root competition in potato/maize intercropping: Effects on growth and yield. <i>Environmental and Experimental Botany</i> , 2008, 64, 180-188.	4.2	66
23	Gravimetric phenotyping of whole plant transpiration responses to atmospheric vapour pressure deficit identifies genotypic variation in water use efficiency. <i>Plant Science</i> , 2016, 251, 101-109.	3.6	63
24	Going with the Flow: Multiscale Insights into the Composite Nature of Water Transport in Roots. <i>Plant Physiology</i> , 2018, 178, 1689-1703.	4.8	63
25	Leaf silicon content in banana ( <i>Musa</i> spp.) reveals the weathering stage of volcanic ash soils in Guadeloupe. <i>Plant and Soil</i> , 2008, 313, 71-82.	3.7	62
26	Modification of the Expression of the Aquaporin ZmPIP2;5 Affects Water Relations and Plant Growth. <i>Plant Physiology</i> , 2020, 182, 2154-2165.	4.8	39
27	Effects of <i>Rhizophagus irregularis</i> MUCL 41833 on the reproduction of <i>Radopholus similis</i> in banana plantlets grown under in vitro culture conditions. <i>Mycorrhiza</i> , 2013, 23, 279-288.	2.8	37
28	Root Systems Biology: Integrative Modeling across Scales, from Gene Regulatory Networks to the Rhizosphere. <i>Plant Physiology</i> , 2013, 163, 1487-1503.	4.8	34
29	Estimating root elongation rates from morphological measurements of the root tip. <i>Plant and Soil</i> , 2010, 328, 35-44.	3.7	28
30	Root allocation in metal-rich patch by <i>Thlaspi caerulescens</i> from normal and metalliferous soil—new insights into the rhizobox approach. <i>Plant and Soil</i> , 2008, 310, 211-224.	3.7	25
31	Impact of multispores in vitro subcultivation of <i>Glomus</i> sp. MUCL 43194 (DAOM 197198) on vegetative compatibility and genetic diversity detected by AFLP. <i>Mycorrhiza</i> , 2010, 20, 415-425.	2.8	22
32	Integration of AFLP, SSR and SNP markers into a new genetic map of industrial chicory ( <i>Cichorium intybus</i> L. var. <i>sativum</i> ). <i>Plant Breeding</i> , 2014, 133, 130-137.	1.9	19
33	Non-invasive hydrodynamic imaging in plant roots at cellular resolution. <i>Nature Communications</i> , 2021, 12, 4682.	12.8	19
34	Physiological adaptive traits are a potential allele reservoir for maize genetic progress under challenging conditions. <i>Nature Communications</i> , 2022, 13, .	12.8	19
35	Consequences of root growth kinetics and vascular structure on the distribution of lateral roots. <i>Plant, Cell and Environment</i> , 2002, 25, 1463-1474.	5.7	18
36	GENOTYPIC VARIATION OF PHOSPHORUS USE EFFICIENCY AMONG MOROCCAN FAB A BEAN VARIETIES ( <i>Vicia faba</i> MAJOR) UNDER RAINFED CONDITIONS. <i>Journal of Plant Nutrition</i> , 2012, 35, 34-48.	1.9	15

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37	Geographic variations of life history strategies in <i>Drosophila melanogaster</i> I. Analysis of wild-caught populations. <i>Experimental Gerontology</i> , 1994, 29, 205-222.	2.8	13
38	The sterol biosynthesis inhibitor molecule fenhexamid impacts the vegetative compatibility of <i>Glomus clarum</i> . <i>Mycorrhiza</i> , 2011, 21, 443-449.	2.8	13
39	Distribution of Lateral Root Primordia in Root Tips of <i>Musa</i> . <i>Annals of Botany</i> , 1999, 84, 393-400.	2.9	8
40	Geographic variations of life history strategies in <i>Drosophila melanogaster</i> III. New data. <i>Experimental Gerontology</i> , 1996, 31, 717-733.	2.8	5
41	Geographic variations of life history strategies in <i>Drosophila melanogaster</i> II. Analysis of laboratory-adapted populations. <i>Experimental Gerontology</i> , 1995, 30, 517-532.	2.8	4
42	Mutations in chicory FEH genes are statistically associated with enhanced resistance to post-harvest inulin depolymerization. <i>Theoretical and Applied Genetics</i> , 2014, 127, 125-135.	3.6	4