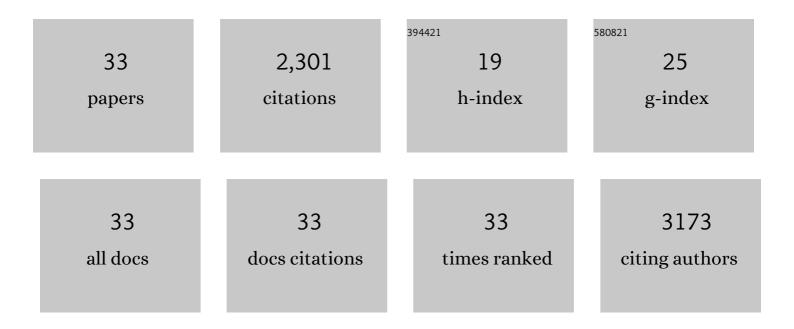
Xavier Sirault

List of Publications by Year in descending order

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XAVIED SIDALILT

#	Article	IF	CITATIONS
1	New phenotyping methods for screening wheat and barley for beneficial responses to water deficit. Journal of Experimental Botany, 2010, 61, 3499-3507.	4.8	359
2	Proximal Remote Sensing Buggies and Potential Applications for Field-Based Phenotyping. Agronomy, 2014, 4, 349-379.	3.0	316
3	High Throughput Determination of Plant Height, Ground Cover, and Above-Ground Biomass in Wheat with LiDAR. Frontiers in Plant Science, 2018, 9, 237.	3.6	206
4	A novel mesh processing based technique for 3D plant analysis. BMC Plant Biology, 2012, 12, 63.	3.6	189
5	A new screening method for osmotic component of salinity tolerance in cereals using infrared thermography. Functional Plant Biology, 2009, 36, 970.	2.1	173
6	QTLs for grain carbon isotope discrimination in field-grown barley. Theoretical and Applied Genetics, 2002, 106, 118-126.	3.6	122
7	Growth of the C4 dicot Flaveria bidentis: photosynthetic acclimation to low light through shifts in leaf anatomy and biochemistry. Journal of Experimental Botany, 2010, 61, 4109-4122.	4.8	116
8	TraitCapture: genomic and environment modelling of plant phenomic data. Current Opinion in Plant Biology, 2014, 18, 73-79.	7.1	101
9	Leaf Photosynthetic Parameters Related to Biomass Accumulation in a Global Rice Diversity Survey. Plant Physiology, 2017, 175, 248-258.	4.8	85
10	Improving photosynthesis and yield potential in cereal crops by targeted genetic manipulation: Prospects, progress and challenges. Field Crops Research, 2015, 182, 19-29.	5.1	81
11	Phenomic Approaches and Tools for Phytopathologists. Phytopathology, 2017, 107, 6-17.	2.2	73
12	Scaling of Thermal Images at Different Spatial Resolution: The Mixed Pixel Problem. Agronomy, 2014, 4, 380-396.	3.0	68
13	Genetic analysis of coleoptile length and diameter in wheat. Australian Journal of Agricultural Research, 2004, 55, 733.	1.5	66
14	"Rolled-upness― phenotyping leaf rolling in cereals using computer vision and functional data analysis approaches. Plant Methods, 2015, 11, 52.	4.3	53
15	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
16	Digital imaging approaches for phenotyping whole plant nitrogen and phosphorus response in <i>Brachypodium distachyon</i> . Journal of Integrative Plant Biology, 2014, 56, 781-796.	8.5	49
17	An assessment of near surface CO2 leakage detection techniques under Australian conditions. Energy Procedia, 2014, 63, 3891-3906.	1.8	43
18	Feature matching in stereo images encouraging uniform spatial distribution. Pattern Recognition, 2015, 48, 2530-2542.	8.1	24

XAVIER SIRAULT

#	Article	IF	CITATIONS
19	3D Scanning System for Automatic High-Resolution Plant Phenotyping. , 2016, , .		24
20	Infrared Thermography in Plant Phenotyping for Salinity Tolerance. , 2012, 913, 173-189.		23
21	Diurnal Solar Energy Conversion and Photoprotection in Rice Canopies. Plant Physiology, 2017, 173, 495-508.	4.8	22
22	Automated 3D Segmentation and Analysis of Cotton Plants. , 2011, , .		16
23	3D Plant Modelling via Hyperspectral Imaging. , 2013, , .		14
24	High-throughput chlorophyll fluorescence screening of Setaria viridis for mutants with altered CO2 compensation points. Functional Plant Biology, 2018, 45, 1017.	2.1	8
25	Stereo matching using cost volume watershed and region merging. Signal Processing: Image Communication, 2014, 29, 1232-1244.	3.2	7
26	Automated Plant and Leaf Separation: Application in 3D Meshes of Wheat Plants. , 2016, , .		3
27	Feature Correspondence with Even Distribution. , 2012, , .		2
28	Tree structural watershed for stereo matching. , 2012, , .		1
29	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
30	Cross Image Inference Scheme for Stereo Matching. Lecture Notes in Computer Science, 2013, , 217-230.	1.3	1
31	High-Throughput Plant Height Estimation from RGB Images Acquired with Aerial Platforms: A 3D Point Cloud Based Approach. , 2019, , .		1
32	Optimal design for adaptive smoothing splines. Journal of Statistical Planning and Inference, 2020, 206, 263-277.	0.6	1
33	Ten simple rules to ruin a collaborative environment. PLoS Computational Biology, 2022, 18, e1009957.	3.2	1