Xavier Sirault

List of Publications by Year
in descending order

Source: https://exaly.com/author-pdf/4728591/publications.pdf

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33	2,301	394421	580821
papers	citations	19 h-index	25 g-index

33	33	33	3173
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	Ten simple rules to ruin a collaborative environment. PLoS Computational Biology, 2022, 18, e1009957.	3.2	1
2	Optimal design for adaptive smoothing splines. Journal of Statistical Planning and Inference, 2020, 206, 263-277.	0.6	1
3	High-Throughput Plant Height Estimation from RGB Images Acquired with Aerial Platforms: A 3D Point Cloud Based Approach. , 2019, , .		1
4	High-throughput chlorophyll fluorescence screening of Setaria viridis for mutants with altered CO2 compensation points. Functional Plant Biology, 2018, 45, 1017.	2.1	8
5	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
6	Diurnal Solar Energy Conversion and Photoprotection in Rice Canopies. Plant Physiology, 2017, 173, 495-508.	4.8	22
7	Leaf Photosynthetic Parameters Related to Biomass Accumulation in a Global Rice Diversity Survey. Plant Physiology, 2017, 175, 248-258.	4.8	85
8	Phenomic Approaches and Tools for Phytopathologists. Phytopathology, 2017, 107, 6-17.	2.2	73
9	3D Scanning System for Automatic High-Resolution Plant Phenotyping. , 2016, , .		24
10	Automated Plant and Leaf Separation: Application in 3D Meshes of Wheat Plants. , 2016, , .		3
11	â€œRolled-upnessâ€• phenotyping leaf rolling in cereals using computer vision and functional data analysis approaches. Plant Methods, 2015, 11, 52.	4.3	53
12	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
13	Feature matching in stereo images encouraging uniform spatial distribution. Pattern Recognition, 2015, 48, 2530-2542.	8.1	24
14	Scaling of Thermal Images at Different Spatial Resolution: The Mixed Pixel Problem. Agronomy, 2014, 4, 380-396.	3.0	68
15	An assessment of near surface CO2 leakage detection techniques under Australian conditions. Energy Procedia, 2014, 63, 3891-3906.	1.8	43
16	Digital imaging approaches for phenotyping whole plant nitrogen and phosphorus response in Brachypodium distachyon. Journal of Integrative Plant Biology, 2014, 56, 781-796.	8.5	49
17	Stereo matching using cost volume watershed and region merging. Signal Processing: Image Communication, 2014, 29, 1232-1244.	3.2	7
18	TraitCapture: genomic and environment modelling of plant phenomic data. Current Opinion in Plant Biology, 2014, 18, 73-79.	7.1	101

#	Article	IF	Citations
19	Proximal Remote Sensing Buggies and Potential Applications for Field-Based Phenotyping. Agronomy, 2014, 4, 349-379.	3.0	316
20	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
21	3D Plant Modelling via Hyperspectral Imaging. , 2013, , .		14
22	Cross Image Inference Scheme for Stereo Matching. Lecture Notes in Computer Science, 2013, , 217-230.	1.3	1
23	Tree structural watershed for stereo matching. , 2012, , .		1
24	Infrared Thermography in Plant Phenotyping for Salinity Tolerance. , 2012, 913, 173-189.		23
25	A novel mesh processing based technique for 3D plant analysis. BMC Plant Biology, 2012, 12, 63.	3.6	189
26	Feature Correspondence with Even Distribution. , 2012, , .		2
27	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
28	Automated 3D Segmentation and Analysis of Cotton Plants. , 2011, , .		16
29	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
30	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
31	A new screening method for osmotic component of salinity tolerance in cereals using infrared thermography. Functional Plant Biology, 2009, 36, 970.	2.1	173
32	Genetic analysis of coleoptile length and diameter in wheat. Australian Journal of Agricultural Research, 2004, 55, 733.	1.5	66
33	QTLs for grain carbon isotope discrimination in field-grown barley. Theoretical and Applied Genetics, 2002, 106, 118-126.	3.6	122