

David Legland

List of Publications by Year in descending order

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39
papers

2,023
citations

361413

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315739

38
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41
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41
docs citations

41
times ranked

3485
citing authors

#	ARTICLE	IF	CITATIONS
1	MorphoLibj: integrated library and plugins for mathematical morphology with ImageJ. <i>Bioinformatics</i> , 2016, 32, 3532-3534.	4.1	921
2	COMPUTATION OF MINKOWSKI MEASURES ON 2D AND 3D BINARY IMAGES. <i>Image Analysis and Stereology</i> , 2007, 26, 83.	0.9	152
3	The preprophase band of microtubules controls the robustness of division orientation in plants. <i>Science</i> , 2017, 356, 186-189.	12.6	123
4	Structural mechanisms leading to improved water retention in acid milk gels by use of transglutaminase. <i>Food Hydrocolloids</i> , 2013, 30, 419-427.	10.7	60
5	Pepsin diffusion in dairy gels depends on casein concentration and microstructure. <i>Food Chemistry</i> , 2017, 223, 54-61.	8.2	54
6	Macro-vision and grey level granulometry for quantification of tomato pericarp structure. <i>Postharvest Biology and Technology</i> , 2008, 47, 199-209.	6.0	49
7	<i>Nucleus</i>: an ImageJ plugin for quantifying 3D images of interphase nuclei. <i>Bioinformatics</i> , 2015, 31, 1144-1146.	4.1	48
8	Robust incremental compensation of the light attenuation with depth in 3D fluorescence microscopy. <i>Journal of Microscopy</i> , 2004, 214, 297-314.	1.8	42
9	Characterization of the microstructure of dairy systems using automated image analysis. <i>Food Hydrocolloids</i> , 2015, 44, 360-371.	10.7	41
10	Automated clustering of lignocellulosic fibres based on morphometric features and using clustering of variables. <i>Industrial Crops and Products</i> , 2013, 45, 253-261.	5.2	39
11	Changing the isoelectric point of the heat-induced whey protein complexes affects the acid gelation of skim milk. <i>International Dairy Journal</i> , 2012, 23, 9-17.	3.0	37
12	Cartography of cell morphology in tomato pericarp at the fruit scale. <i>Journal of Microscopy</i> , 2012, 247, 78-93.	1.8	36
13	Color Quantification of Stained Maize Stem Section Describes Lignin Spatial Distribution within the Whole Stem. <i>Journal of Agricultural and Food Chemistry</i> , 2013, 61, 3186-3192.	5.2	36
14	Use of X-ray micro computed tomography imaging to analyze the morphology of wheat grain through its development. <i>Plant Methods</i> , 2019, 15, 84.	4.3	35
15	KymoRod: a method for automated kinematic analysis of rod-shaped plant organs. <i>Plant Journal</i> , 2016, 88, 468-475.	5.7	33
16	Tissue Lignification, Cell Wall <i>p</i>-Coumaroylation and Degradability of Maize Stems Depend on Water Status. <i>Journal of Agricultural and Food Chemistry</i> , 2018, 66, 4800-4808.	5.2	31
17	Cell geometry determines symmetric and asymmetric division plane selection in Arabidopsis early embryos. <i>PLoS Computational Biology</i> , 2019, 15, e1006771.	3.2	31
18	Efficient N-Dimensional surface estimation using Crofton formula and run-length encoding. <i>The Insight Journal</i> , 2012, , .	0.2	29

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19	Changes in cell walls lignification, feruloylation and p-coumaroylation throughout maize internode development. <i>PLoS ONE</i> , 2019, 14, e0219923.	2.5	22
20	Exploring the microstructure of natural fibre composites by confocal Raman imaging and image analysis. <i>Composites Part A: Applied Science and Manufacturing</i> , 2017, 94, 32-40.	7.6	21
21	Histological quantification of maize stem sections from FASGA-stained images. <i>Plant Methods</i> , 2017, 13, 84.	4.3	21
22	Exploring the mechanical performance and in-planta architecture of secondary hemp fibres. <i>Industrial Crops and Products</i> , 2017, 108, 1-5.	5.2	20
23	Statistical Mapping of Maize Bundle Intensity at the Stem Scale Using Spatial Normalisation of Replicated Images. <i>PLoS ONE</i> , 2014, 9, e90673.	2.5	20
24	Microfibril angle of elementary flax fibres investigated with polarised second harmonic generation microscopy. <i>Industrial Crops and Products</i> , 2020, 156, 112847.	5.2	16
25	Esmraldi: efficient methods for the fusion of mass spectrometry and magnetic resonance images. <i>BMC Bioinformatics</i> , 2021, 22, 56.	2.6	16
26	Stereological estimation of cell wall density of DR12 tomato mutant using three-dimensional confocal imaging. <i>Annals of Botany</i> , 2010, 105, 265-276.	2.9	14
27	Beating of hemp bast fibres: an examination of a hydro-mechanical treatment on chemical, structural, and nanomechanical property evolutions. <i>Cellulose</i> , 2019, 26, 5665-5683.	4.9	11
28	Oriented granulometry to quantify fibre orientation distributions in synthetic and plant fibre composite preforms. <i>Industrial Crops and Products</i> , 2020, 152, 112548.	5.2	11
29	Quantitative imaging of plants: multi-scale data for better plant anatomy. <i>Journal of Experimental Botany</i> , 2018, 69, 343-347.	4.8	10
30	Brain virtual histology with X-ray phase-contrast tomography Part II: 3D morphologies of amyloid- β^2 plaques in Alzheimer's disease models. <i>Biomedical Optics Express</i> , 2022, 13, 1640.	2.9	9
31	Quantitative dissection of variations in root growth rate: a matter of cell proliferation or of cell expansion?. <i>Journal of Experimental Botany</i> , 2018, 69, 5157-5168.	4.8	8
32	Impact of Two-Dimensional Particle Size Distribution on Estimation of Water Vapor Diffusivity in Micrometric Size Cellulose Particles. <i>Materials</i> , 2018, 11, 1712.	2.9	5
33	Parametric mapping of cellular morphology in plant tissue sections by gray level granulometry. <i>Plant Methods</i> , 2020, 16, 63.	4.3	5
34	Synchrotron Based X-ray Microtomography Reveals Cellular Morphological Features of Developing Wheat Grain. <i>Applied Sciences (Switzerland)</i> , 2022, 12, 3454.	2.5	4
35	Stereological estimation for layered structures based on slabs perpendicular to a surface. <i>Journal of Microscopy</i> , 2008, 232, 44-55.	1.8	3
36	Quantification of Cell Division Angles in the Arabidopsis Root. <i>Methods in Molecular Biology</i> , 2022, 2382, 209-221.	0.9	3

#	ARTICLE	IF	CITATIONS
37	Microstructural and Chemical Approach To Highlight How a Simple Methyl Group Affects the Mechanical Properties of a Natural Fibers Composite. ACS Sustainable Chemistry and Engineering, 2017, 5, 10352-10360.	6.7	2
38	Darkfield and Fluorescence Macrovision of a Series of Large Images to Assess Anatomical and Chemical Tissue Variability in Whole Cross-Sections of Maize Stems. Frontiers in Plant Science, 2021, 12, 792981.	3.6	2
39	ImageM: a user-friendly interface for the processing of multi-dimensional images with Matlab. F1000Research, 0, 10, 333.	1.6	0