

Stefan Paulus

List of Publications by Year in descending order

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Version: 2024-02-01

29
papers

1,409
citations

471509

17
h-index

552781

26
g-index

29
all docs

29
docs citations

29
times ranked

1362
citing authors

#	ARTICLE	IF	CITATIONS
1	Low-Cost 3D Systems: Suitable Tools for Plant Phenotyping. <i>Sensors</i> , 2014, 14, 3001-3018.	3.8	215
2	High-precision laser scanning system for capturing 3D plant architecture and analysing growth of Aereal plants. <i>Biosystems Engineering</i> , 2014, 121, 1-11.	4.3	157
3	Surface feature based classification of plant organs from 3D laserscanned point clouds for plant phenotyping. <i>BMC Bioinformatics</i> , 2013, 14, 238.	2.6	145
4	Measuring crops in 3D: using geometry for plant phenotyping. <i>Plant Methods</i> , 2019, 15, 103.	4.3	111
5	Accuracy Analysis of a Multi-View Stereo Approach for Phenotyping of Tomato Plants at the Organ Level. <i>Sensors</i> , 2015, 15, 9651-9665.	3.8	108
6	Fusion of sensor data for the detection and differentiation of plant diseases in cucumber. <i>Plant Pathology</i> , 2014, 63, 1344-1356.	2.4	98
7	Automated Analysis of Barley Organs Using 3D Laser Scanning: An Approach for High Throughput Phenotyping. <i>Sensors</i> , 2014, 14, 12670-12686.	3.8	86
8	Generation and application of hyperspectral 3D plant models: methods and challenges. <i>Machine Vision and Applications</i> , 2016, 27, 611-624.	2.7	72
9	Automated interpretation of 3D laserscanned point clouds for plant organ segmentation. <i>BMC Bioinformatics</i> , 2015, 16, 248.	2.6	66
10	Calibration of hyperspectral close-range pushbroom cameras for plant phenotyping. <i>ISPRS Journal of Photogrammetry and Remote Sensing</i> , 2015, 106, 172-182.	11.1	60
11	Pheno4D: A spatio-temporal dataset of maize and tomato plant point clouds for phenotyping and advanced plant analysis. <i>PLoS ONE</i> , 2021, 16, e0256340.	2.5	39
12	Extending Hyperspectral Imaging for Plant Phenotyping to the UV-Range. <i>Remote Sensing</i> , 2019, 11, 1401.	4.0	33
13	Technical workflows for hyperspectral plant image assessment and processing on the greenhouse and laboratory scale. <i>GigaScience</i> , 2020, 9, .	6.4	33
14	Hyperspectral imaging of symptoms induced by <i>Rhizoctonia solani</i> in sugar beet: comparison of input data and different machine learning algorithms. <i>Journal of Plant Diseases and Protection</i> , 2020, 127, 441-451.	2.9	32
15	Limits of Active Laser Triangulation as an Instrument for High Precision Plant Imaging. <i>Sensors</i> , 2014, 14, 2489-2509.	3.8	27
16	Spatial Referencing of Hyperspectral Images for Tracing of Plant Disease Symptoms. <i>Journal of Imaging</i> , 2018, 4, 143.	3.0	23
17	Automatic UAV-based counting of seedlings in sugar-beet field and extension to maize and strawberry. <i>Computers and Electronics in Agriculture</i> , 2021, 191, 106493.	7.7	22
18	Prediction of the Kiwifruit Decline Syndrome in Diseased Orchards by Remote Sensing. <i>Remote Sensing</i> , 2020, 12, 2194.	4.0	16

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19	Spectral signatures in the UV range can be combined with secondary plant metabolites by deep learning to characterize barley's powdery mildew interaction. <i>Plant Pathology</i> , 2021, 70, 1572-1582.	2.4	16
20	A Multi-Resolution Approach for an Automated Fusion of Different Low-Cost 3D Sensors. <i>Sensors</i> , 2014, 14, 7563-7579.	3.8	12
21	A Hyperspectral Library of Foliar Diseases of Wheat. <i>Phytopathology</i> , 2021, 111, 1583-1593.	2.2	11
22	Digital plant pathology: a foundation and guide to modern agriculture. <i>Journal of Plant Diseases and Protection</i> , 2022, 129, 457-468.	2.9	8
23	Generation and Application of Hyperspectral 3D Plant Models. <i>Lecture Notes in Computer Science</i> , 2015, , 117-130.	1.3	7
24	Disease Incidence and Severity of Cercospora Leaf Spot in Sugar Beet Assessed by Multispectral Unmanned Aerial Images and Machine Learning. <i>Plant Disease</i> , 2023, 107, 188-200.	1.4	6
25	The Impact of different Leaf Surface Tissues on active 3D Laser Triangulation Measurements. <i>Photogrammetrie, Fernerkundung, Geoinformation</i> , 2015, 2015, 437-447.	1.2	4
26	Statistical shape analysis of tap roots: a methodological case study on laser scanned sugar beets. <i>BMC Bioinformatics</i> , 2020, 21, 335.	2.6	1
27	Unlocking the Potential of Hyperspectral Imaging of Plants for Precision Agriculture and Plant Phenotyping. , 2021, , .		1
28	Image processing for bioassays. , 2018, , 263-287.		0
29	Geometrische und spektrale Erfassung von Bestandeseigenschaften zur Phänotypisierung von Zuckerrüben und Weizen. <i>Zuckerindustrie</i> , 2020, , 53-58.	0.1	0