

Udo Seiffert

List of Publications by Citations

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The third column is the impact factor (IF) of the journal, and the fourth column is the number of citations of the article.

57
papers

555
citations

13
h-index

20
g-index

63
ext. papers

720
ext. citations

3.7
avg, IF

3.87
L-index

#	Paper	IF	Citations
57	Barley grain development toward an integrative view. <i>International Review of Cell and Molecular Biology</i> , 2010 , 281, 49-89	6	60
56	Improved classification accuracy of powdery mildew infection levels of wine grapes by spatial-spectral analysis of hyperspectral images. <i>Plant Methods</i> , 2017 , 13, 47	5.8	53
55	Non-invasive Presymptomatic Detection of Infection and Identification of Early Metabolic Responses in Sugar Beet. <i>Frontiers in Plant Science</i> , 2016 , 7, 1377	6.2	40
54	Phenoliner: A New Field Phenotyping Platform for Grapevine Research. <i>Sensors</i> , 2017 , 17,	3.8	36
53	Artificial neural networks on massively parallel computer hardware. <i>Neurocomputing</i> , 2004 , 57, 135-150	5.4	32
52	HypArea--automated analysis of spatiotemporal fungal patterns. <i>Journal of Plant Physiology</i> , 2011 , 168, 72-8	3.6	21
51	Label-free proteome profiling reveals developmental-dependent patterns in young barley grains. <i>Journal of Proteomics</i> , 2016 , 143, 106-121	3.9	19
50	Classification in high-dimensional spectral data: Accuracy vs. interpretability vs. model size. <i>Neurocomputing</i> , 2014 , 131, 15-22	5.4	17
49	Genetic dissection of grain elements predicted by hyperspectral imaging associated with yield-related traits in a wild barley NAM population. <i>Plant Science</i> , 2019 , 285, 151-164	5.3	16
48	Robust classification of the nutrition state in crop plants by hyperspectral imaging and artificial neural networks 2011 ,		15
47	Generalized relevance LVQ (GRLVQ) with correlation measures for gene expression analysis. <i>Neurocomputing</i> , 2006 , 69, 651-659	5.4	15
46	A high-throughput screening system for barley/powdery mildew interactions based on automated analysis of light micrographs. <i>BMC Plant Biology</i> , 2008 , 8, 6	5.3	14
45	Detection of Grapevine Leafroll-Associated Virus 1 and 3 in White and Red Grapevine Cultivars Using Hyperspectral Imaging. <i>Remote Sensing</i> , 2020 , 12, 1693	5	13
44	Mass Spectrometry Imaging of Metabolites in Barley Grain Tissues. <i>Current Protocols in Plant Biology</i> , 2016 , 1, 574-591	2.8	12
43	Tree Species Classification Based on Hybrid Ensembles of a Convolutional Neural Network (CNN) and Random Forest Classifiers. <i>Remote Sensing</i> , 2019 , 11, 2788	5	12
42	Optimizing the procedure of grain nutrient predictions in barley via hyperspectral imaging. <i>PLoS ONE</i> , 2019 , 14, e0224491	3.7	10
41	Correlation-maximizing surrogate gene space for visual mining of gene expression patterns in developing barley endosperm tissue. <i>BMC Bioinformatics</i> , 2007 , 8, 165	3.6	10

40	Microphenomics for Interactions of Barley with Fungal Pathogens 2014 , 123-148		10
39	Genetic regulation of growth and nutrient content under phosphorus deficiency in the wild barley introgression library S42IL. <i>Plant Breeding</i> , 2017 , 136, 892-907	2.4	9
38	Clustering of crop phenotypes by means of hyperspectral signatures using artificial neural networks 2010 ,		9
37	Evaluating the suitability of hyper- and multispectral imaging to detect foliar symptoms of the grapevine trunk disease Esca in vineyards. <i>Plant Methods</i> , 2020 , 16, 142	5.8	9
36	"Macrobot": An Automated Segmentation-Based System for Powdery Mildew Disease Quantification. <i>Plant Phenomics</i> , 2020 , 2020, 5839856	7	8
35	Towards Automatic Generation of 3D Models of Biological Objects Based on Serial Sections. <i>Mathematics and Visualization</i> , 2008 , 3-25	0.6	7
34	Determination of Fructans in Plants: Current Analytical Means for Extraction, Detection, and Quantification 2019 , 117-156		7
33	Fuzzy Labeled Self-Organizing Map with Label-Adjusted Prototypes. <i>Lecture Notes in Computer Science</i> , 2006 , 46-56	0.9	7
32	Multi-Dimensional Self-Organizing Maps on Massively Parallel Hardware 2001 , 160-166		7
31	Detection of Two Different Grapevine Yellows in <i>Vitis vinifera</i> Using Hyperspectral Imaging. <i>Remote Sensing</i> , 2020 , 12, 4151	5	6
30	Quantitative Measurements of model interpretability for the analysis of spectral data 2013 ,		6
29	ANNIE—Artificial Neural Network-based Image Encoder. <i>Neurocomputing</i> , 2014 , 125, 229-235	5.4	6
28	Functional Representation of Prototypes in LVQ and Relevance Learning. <i>Advances in Intelligent Systems and Computing</i> , 2016 , 317-327	0.4	6
27	Estimating motion parameters with three-dimensional self-organizing maps. <i>Information Sciences</i> , 1997 , 101, 187-201	7.7	5
26	Genome-wide association study reveals the genetic complexity of fructan accumulation patterns in barley grain. <i>Journal of Experimental Botany</i> , 2021 , 72, 2383-2402	7	5
25	Macrobot—an automated segmentation-based system for powdery mildew disease quantification		4
24	Cascaded Reduction and Growing of Result Sets for Combining Object Detectors. <i>Lecture Notes in Computer Science</i> , 2013 , 121-133	0.9	4
23	Towards Automatic Segmentation of Serial High-Resolution Images 2006 , 126-130		4

22	Fusion trees for fast and accurate classification of hyperspectral data with ensembles of (gamma)-divergence-based RBF networks. <i>Neural Computing and Applications</i> , 2015 , 26, 253-262	4.8	3
21	A comparison of late fusion methods for object detection 2013 ,		3
20	Intuitive Clustering of Biological Data. <i>Neural Networks (IJCNN), International Joint Conference on</i> , 2007 ,		3
19	Beyond Standard Metrics On the Selection and Combination of Distance Metrics for an Improved Classification of Hyperspectral Data. <i>Advances in Intelligent Systems and Computing</i> , 2014 , 167-177	0.4	3
18	Three-Dimensional Multimodality Modelling by Integration of High-Resolution Interindividual Atlases and Functional MALDI-IMS Data. <i>Lecture Notes in Computer Science</i> , 2009 , 126-138	0.9	3
17	Relevance Learning in Unsupervised Vector Quantization Based on Divergences. <i>Lecture Notes in Computer Science</i> , 2011 , 90-100	0.9	3
16	Evaluation of RGB and Multispectral Unmanned Aerial Vehicle (UAV) Imagery for High-Throughput Phenotyping and Yield Prediction in Barley Breeding. <i>Remote Sensing</i> , 2021 , 13, 2670	5	3
15	Produktionssysteme 2015 , 151-243		2
14	A multivariate wavelet-PCA denoising-filter for hyperspectral images 2011 ,		2
13	Growing 3D-SOMs with 2D-input layer as a classification tool in a motion detection system. <i>International Journal of Neural Systems</i> , 1997 , 8, 81-9	6.2	2
12	Automating Microscope Colour Image Analysis Using the Expectation Maximisation Algorithm. <i>Lecture Notes in Computer Science</i> , 2004 , 536-543	0.9	2
11	Unleashing Pearson Correlation for Faithful Analysis of Biomedical Data. <i>Lecture Notes in Computer Science</i> , 2009 , 70-91	0.9	2
10	Adaptive basis functions for prototype-based classification of functional data. <i>Neural Computing and Applications</i> , 2020 , 32, 18213-18223	4.8	2
9	Adaptive Feature Selection for Classification of Microscope Images. <i>Lecture Notes in Computer Science</i> , 2006 , 215-222	0.9	2
8	Adaptive basis functions for prototype-based classification of functional data 2017 ,		1
7	Joint Registration and Segmentation of Histological Volume Data by Diffusion-Based Label Adaption 2010 ,		1
6	Dynamics and genetic regulation of leaf nutrient concentration in barley based on hyperspectral imaging and machine learning.. <i>Plant Science</i> , 2022 , 315, 111123	5.3	1
5	Perspectives of Self-adapted Self-organizing Clustering in Organic Computing. <i>Lecture Notes in Computer Science</i> , 2006 , 141-159	0.9	1

- 4 GWAS reveals the genetic complexity of fructan accumulation patterns in barley grain 1
- 3 Identification and Classification of Contaminations on Wafers Using Hyperspectral Imaging. *Energy Procedia*, **2016**, 92, 232-235 2,3 1
- 2 Phenotyping and Genotyping of Plants **2020**, 91-104
- 1 Phäo- und Genotypisierung von Pflanzen **2019**, 95-108