

# Maik Veste

## List of Publications by Year in descending order

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78  
papers

1,844  
citations

236833

25  
h-index

302012

39  
g-index

81  
all docs

81  
docs citations

81  
times ranked

1712  
citing authors

#	ARTICLE	IF	CITATIONS
1	Measuring photosynthetic rates in seagrasses by pulse amplitude modulated (PAM) fluorometry. <i>Marine Ecology - Progress Series</i> , 1998, 174, 293-300.	0.9	206
2	Water repellency and pore clogging at early successional stages of microbiotic crusts on inland dunes, Brandenburg, NE Germany. <i>Catena</i> , 2010, 80, 47-52.	2.2	135
3	Organic matter from biological soil crusts induces the initial formation of sandy temperate soils. <i>Catena</i> , 2014, 122, 196-208.	2.2	71
4	Moss-dominated biocrusts increase soil microbial abundance and community diversity and improve soil fertility in semi-arid climates on the Loess Plateau of China. <i>Applied Soil Ecology</i> , 2017, 117-118, 165-177.	2.1	71
5	Microclimate effects on evaporation and winter wheat ( <i>Triticum aestivum</i> L.) yield within a temperate agroforestry system. <i>Agroforestry Systems</i> , 2019, 93, 1821-1841.	0.9	63
6	Patterns and processes of initial terrestrial ecosystem development. <i>Journal of Plant Nutrition and Soil Science</i> , 2011, 174, 229-239.	1.1	61
7	Succession of N cycling processes in biological soil crusts on a Central European inland dune. <i>FEMS Microbiology Ecology</i> , 2013, 83, 149-160.	1.3	57
8	Differential hydrological response of biological topsoil crusts along a rainfall gradient in a sandy arid area: Northern Negev desert, Israel. <i>Catena</i> , 2011, 87, 326-333.	2.2	55
9	Microclimatic boundary conditions for activity of soil lichen crusts in sand dunes of the north-western Negev desert, Israel. <i>Flora: Morphology, Distribution, Functional Ecology of Plants</i> , 2001, 196, 465-474.	0.6	53
10	Infiltration and water retention of biological soil crusts on reclaimed soils of former open-cast lignite mining sites in Brandenburg, north-east Germany. <i>Journal of Hydrology and Hydromechanics</i> , 2016, 64, 1-11.	0.7	46
11	Carbon allocation, nodulation, and biological nitrogen fixation of black locust ( <i>Robinia</i> ) Tj ETQq1 1 0.784314 rgBT /Overlock 10 Tf 50 34	0.6	43
12	Initial pedogenesis in a topsoil crust 3 years after construction of an artificial catchment in Brandenburg, NE Germany. <i>Biogeochemistry</i> , 2010, 101, 165-176.	1.7	40
13	Overview and first results of ecological monitoring at the artificial watershed Chicken Creek (Germany). <i>Physics and Chemistry of the Earth</i> , 2011, 36, 61-73.	1.2	40
14	Black locust ( <i>Robinia pseudoacacia</i> L.) ecophysiological and morphological adaptations to drought and their consequence on biomass production and water-use efficiency. <i>New Zealand Journal of Forestry Science</i> , 2014, 44, .	0.8	39
15	Agroforestry: An Appropriate and Sustainable Response to a Changing Climate in Southern Africa?. <i>Sustainability</i> , 2020, 12, 6796.	1.6	39
16	A natural $^{15}\text{N}$ approach to determine the biological fixation of atmospheric nitrogen by biological soil crusts of the Negev Desert. <i>Rapid Communications in Mass Spectrometry</i> , 2005, 19, 3451-3456.	0.7	38
17	Dew formation on the surface of biological soil crusts in central European sand ecosystems. <i>Biogeosciences</i> , 2012, 9, 4621-4628.	1.3	38
18	Photosynthetic characteristics and their spatial variance on biological soil crusts covering initial soils of post-mining sites in Lower Lusatia, NE Germany. <i>Flora: Morphology, Distribution, Functional Ecology of Plants</i> , 2016, 220, 103-116.	0.6	36

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19	Effects of biological soil crusts on water infiltration and evaporation Yanchi Ningxia, Maowusu Desert, China. <i>International Journal of Sediment Research</i> , 2016, 31, 311-323.	1.8	34
20	Hydraulic properties of biological soil crusts on sand dunes studied by <sup>13</sup> C-CP/MAS-NMR: A comparison between an arid and a temperate site. <i>Catena</i> , 2013, 110, 155-160.	2.2	33
21	Biological soil crusts decrease soil temperature in summer and increase soil temperature in winter in semiarid environment. <i>Ecological Engineering</i> , 2013, 58, 52-56.	1.6	32
22	Vegetation pattern in arid sand dunes controlled by biological soil crusts along a climatic gradient in the Northern Negev desert. <i>Basic and Applied Dryland Research</i> , 2011, 5, 1-16.	0.7	31
23	Small scale spatial heterogeneity of Normalized Difference Vegetation Indices (NDVIs) and hot spots of photosynthesis in biological soil crusts. <i>Flora: Morphology, Distribution, Functional Ecology of Plants</i> , 2012, 207, 159-167.	0.6	31
24	Key drivers of competition and growth partitioning among <i>Robinia pseudoacacia</i> L. trees. <i>Forest Ecology and Management</i> , 2018, 430, 86-93.	1.4	28
25	Organic carbon and nitrogen stocks and organic carbon fractions in soil under mixed pine and oak forest stands of different ages in NE Germany. <i>Journal of Plant Nutrition and Soil Science</i> , 2010, 173, 654-661.	1.1	27
26	Natural recovery rates of moss biocrusts after severe disturbance in a semiarid climate of the Chinese Loess Plateau. <i>Geoderma</i> , 2019, 337, 402-412.	2.3	26
27	Environmental variability and allocation trade-offs maintain species diversity in a process-based model of succulent plant communities. <i>Ecological Modelling</i> , 2006, 199, 486-504.	1.2	25
28	Arid Dune Ecosystems. <i>Ecological Studies</i> , 2008, , .	0.4	25
29	The Role of Biological Soil Crusts on Desert Sand Dunes in the Northwestern Negev, Israel. , 2001, , 357-367.		24
30	Variability of CAM in leaf-deciduous succulents from the Succulent Karoo (South Africa). <i>Basic and Applied Ecology</i> , 2001, 2, 283-288.	1.2	24
31	Synergic hydraulic and nutritional feedback mechanisms control surface patchiness of biological soil crusts on tertiary sands at a post-mining site. <i>Journal of Hydrology and Hydromechanics</i> , 2014, 62, 293-302.	0.7	23
32	Biological topsoil crusts at early successional stages on Quaternary substrates dumped by mining in Brandenburg, NE Germany. <i>Geomorphologie Relief, Processus, Environnement</i> , 2010, 16, 359-370.	0.7	23
33	Using the natural <sup>15</sup> N abundance to assess the main nitrogen inputs into the sand dune area of the North-Western Negev desert (ISRAEL). <i>Isotopes in Environmental and Health Studies</i> , 2004, 40, 57-67.	0.5	20
34	Effects of Drought Frequency on Growth Performance and Transpiration of Young Black Locust ( <i>Robinia pseudoacacia</i> L.). <i>International Journal of Forestry Research</i> , 2014, 2014, 1-11.	0.2	20
35	Carbon cycling of biological soil crusts mirrors ecological maturity along a Central European inland dune catena. <i>Catena</i> , 2018, 160, 68-75.	2.2	19
36	Spatial and temporal variation of drought impact on black locust ( <i>Robinia pseudoacacia</i> L.) water status and growth. <i>IForest</i> , 2015, 8, 743-747.	0.5	19

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37	Sustainable Land Use in Deserts. , 2001, , .		18
38	Biological Crusts. Ecological Studies, 2008, , 149-155.	0.4	15
39	Photosynthetic responses to CO2 concentration and photon fluence rates in the CAM-cycling plant <i>Delosperma tradescantioides</i> (Mesembryanthemaceae). <i>New Phytologist</i> , 1998, 138, 433-440.	3.5	14
40	Trade-Off between Energy Wood and Grain Production in Temperate Alley-Cropping Systems: An Empirical and Simulation-Based Derivation of Land Equivalent Ratio. <i>Agriculture (Switzerland)</i> , 2019, 9, 147.	1.4	14
41	CAM variations in the leaf-succulent <i>Delosperma tradescantioides</i> (Mesembryanthemaceae), native to southern Africa. <i>Physiologia Plantarum</i> , 1996, 98, 485-492.	2.6	13
42	Windbreaks as part of climate-smart landscapes reduce evapotranspiration in vineyards, Western Cape Province, South Africa. <i>Plant, Soil and Environment</i> , 2020, 66, 119-127.	1.0	13
43	Comparative field performance of three different gas exchange systems. <i>Bothalia</i> , 1997, 27, 83-89.	0.2	13
44	Spatial and temporal variability of soil water in drylands: plant water potential as a diagnostic tool. <i>Forestry Studies in China</i> , 2008, 10, 74-80.	0.4	12
45	Interactive effects of photon fluence rates and drought on CAM-cycling in <i>Delosperma tradescantioides</i> (Mesembryanthemaceae). <i>Physiologia Plantarum</i> , 1998, 102, 148-154.	2.6	11
46	Modelling spatial patterns of vegetation in desert sand dunes. <i>Forestry Studies in China</i> , 2005, 7, 24-28.	0.4	10
47	Evaluation of fast growing tree water use under different soil moisture regimes using wick lysimeters. <i>IForest</i> , 2013, 6, 190-200.	0.5	10
48	Transpiration and biomass production of the bioenergy crop Giant Knotweed <i>Igniscum</i> under various supplies of water and nutrients. <i>Journal of Hydrology and Hydromechanics</i> , 2014, 62, 316-323.	0.7	10
49	Identification of spatial pattern of photosynthesis hotspots in moss- and lichen-dominated biological soil crusts by combining chlorophyll fluorescence imaging and multispectral BNDVI images. <i>Pedobiologia</i> , 2018, 68, 1-11.	0.5	9
50	Coverage and Rainfall Response of Biological Soil Crusts Using Multi-Temporal Sentinel-2 Data in a Central European Temperate Dry Acid Grassland. <i>Remote Sensing</i> , 2021, 13, 3093.	1.8	9
51	Simulating Climate Change Impacts on Hybrid-Poplar and Black Locust Short Rotation Coppices. <i>Forests</i> , 2018, 9, 419.	0.9	8
52	Influence of halophytic hosts on their parasites—the case of <i>Plicosepalus acaciae</i> . <i>AoB PLANTS</i> , 2015, 7, .	1.2	7
53	Ecosystem Manipulation and Restoration on the Basis of Long-Term Conceptions. , 2010, , 411-428.		7
54	Photosynthetic characteristics and simulation of annual leaf carbon gains of hybrid poplar ( <i>Populus</i> ) Tj ETQq0 0 0 rgBT /Overlock 10 Tf 5 agroforestry system. <i>Agroforestry Systems</i> , 2018, 92, 1267-1286.	0.9	6

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55	Comparative ecophysiology of the leaf-succulents <i>Augea capensis</i> (C3) and <i>Malephora purpureo-crocea</i> (CAM) in the Knersvlakte, Succulent Karoo, South Africa. <i>Flora: Morphology, Distribution, Functional Ecology of Plants</i> , 2021, 278, 151807.	0.6	6
56	Soil pH influences the organic acid metabolism and exudation in cluster roots of <i>Protea</i> species from the Mediterranean-type fynbos ecosystem, Western Cape, South Africa. <i>Rhizosphere</i> , 2022, 21, 100486.	1.4	5
57	Determination of actual evapotranspiration and transpiration in desert sand dunes (Negev Desert) using different approaches. <i>Forestry Studies in China</i> , 2006, 8, 1-9.	0.4	4
58	Evapotranspiration, Transpiration and Dewfall. <i>Ecological Studies</i> , 2008, , 183-200.	0.4	4
59	Deserts, Land Use and Desertification. , 2001, , 3-13.		4
60	General Conclusions – Sand Dune Deserts, Desertification, Rehabilitation and Conservation. <i>Ecological Studies</i> , 2008, , 441-459.	0.4	3
61	Editorial: Ecological Development and Functioning of Biological Soil Crusts After Natural and Human Disturbances. <i>Frontiers in Ecology and Evolution</i> , 2021, 9, .	1.1	3
62	Wintertime photosynthesis and spring recovery of <i>Ilex aquifolium</i> L. <i>Forest</i> , 2019, 12, 389-396.	0.5	3
63	Biological factors impacting hydrological processes: Peculiarities of plants and biological soil crusts. <i>Journal of Hydrology and Hydromechanics</i> , 2021, 69, 357-359.	0.7	3
64	Manufacturing Simple and Inexpensive Soil Surface Temperature and Gravimetric Water Content Sensors. <i>Journal of Visualized Experiments</i> , 2019, , .	0.2	2
65	Geo-Ecology of the North-Western Negev Sand Field. <i>Ecological Studies</i> , 2008, , 17-24.	0.4	2
66	Einfluss von Stickstoffdüngung und Kompost auf Photosynthese und Wachstum der Virginiamalve ( <i>Sida hermaphrodita</i> Rusby). , 0, , .		2
67	<i>ETS</i> and plastid sequence data indicate a spontaneous origin of Scandinavian betony, <i>Betonica officinalis</i> L.. <i>Biologia Futura</i> , 2019, 70, 218-239.	0.6	2
68	Anbau und Nutzung schnellwachsender Bäume in der Landwirtschaft – ein Ausblick. , 2018, , 511-523.		1
69	Temporal and Spatial Variability of Plant Water Status and Leaf Gas Exchange. <i>Ecological Studies</i> , 2008, , 367-375.	0.4	1
70	Baumarten für die Agrarholzproduktion. , 2018, , 81-118.		1
71	Nachhaltige Holzproduktion in der Agrarlandschaft. , 2018, , 1-16.		1
72	Performance and Photosynthetic Ecophysiology of Three Photo-Types of <i>Dioscorea zingiberensis</i> under Differing Light Intensities. <i>Plant Biology</i> , 2002, 4, 384-391.	1.8	0

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73	Effects of high levels of CO2 on gene expression in two different genotypes of <i>Fagus sylvatica</i> . BMC Proceedings, 2011, 5, .	1.8	0
74	Standing Biomass and its Modelling. Ecological Studies, 2008, , 377-383.	0.4	0
75	CAM variations in the leaf-succulent <i>Delosperma tradescantioides</i> (Mesembryanthemaceae), native to southern Africa. Physiologia Plantarum, 1996, 98, 485-492.	2.6	0
76	Green barks of trees from drought deciduous forests (â€œbosque secoâ€) in northern Peru/southern Ecuador do not perform CAM. Basic and Applied Dryland Research, 2015, , .	0.7	0
77	Agrarholzanbau im Kontext einer modernen Landwirtschaft. , 2018, , 57-79.		0
78	Ã–kophysiologie der AgrargehÃ–lze â€œ vom Blatt zum Bestand. , 2018, , 169-227.		0