

Sander J Zwart

List of Publications by Year in descending order

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47
papers

2,944
citations

304602

22
h-index

223716

46
g-index

47
all docs

47
docs citations

47
times ranked

3332
citing authors

#	ARTICLE	IF	CITATIONS
1	Review of measured crop water productivity values for irrigated wheat, rice, cotton and maize. <i>Agricultural Water Management</i> , 2004, 69, 115-133.	2.4	691
2	Water for Food Water for Life. , 0, , .		277
3	Evaluation and comparison of satellite-based rainfall products in Burkina Faso, West Africa. <i>International Journal of Remote Sensing</i> , 2016, 37, 3995-4014.	1.3	196
4	Impacts of climate change on rice production in Africa and causes of simulated yield changes. <i>Global Change Biology</i> , 2018, 24, 1029-1045.	4.2	173
5	Agricultural land suitability analysis: State-of-the-art and outlooks for integration of climate change analysis. <i>Agricultural Systems</i> , 2019, 173, 172-208.	3.2	157
6	The surface heat island of Rotterdam and its relationship with urban surface characteristics. <i>Resources, Conservation and Recycling</i> , 2012, 64, 23-29.	5.3	123
7	SEBAL for detecting spatial variation of water productivity and scope for improvement in eight irrigated wheat systems. <i>Agricultural Water Management</i> , 2007, 89, 287-296.	2.4	106
8	Integrating remote sensing and a process-based hydrological model to evaluate water use and productivity in a south Indian catchment. <i>Agricultural Water Management</i> , 2008, 95, 11-24.	2.4	105
9	Parasitic weed incidence and related economic losses in rice in Africa. <i>Agriculture, Ecosystems and Environment</i> , 2016, 235, 306-317.	2.5	103
10	RiceAtlas, a spatial database of global rice calendars and production. <i>Scientific Data</i> , 2017, 4, 170074.	2.4	101
11	Sustainable rice production in African inland valleys: Seizing regional potentials through local approaches. <i>Agricultural Systems</i> , 2014, 123, 1-11.	3.2	93
12	A global benchmark map of water productivity for rainfed and irrigated wheat. <i>Agricultural Water Management</i> , 2010, 97, 1617-1627.	2.4	91
13	Potential of satellite and reanalysis evaporation datasets for hydrological modelling under various model calibration strategies. <i>Advances in Water Resources</i> , 2020, 143, 103667.	1.7	62
14	A simple model for simulating heat induced sterility in rice as a function of flowering time and transpirational cooling. <i>Field Crops Research</i> , 2014, 156, 303-312.	2.3	58
15	A remote sensing-based irrigation performance assessment: a case study of the Office du Niger in Mali. <i>Irrigation Science</i> , 2010, 28, 371-385.	1.3	50
16	Impacts of climate change on cropping patterns in a tropical, sub-humid watershed. <i>PLoS ONE</i> , 2018, 13, e0192642.	1.1	42
17	Mapping suitability for rice production in inland valley landscapes in Benin and Togo using environmental niche modeling. <i>Science of the Total Environment</i> , 2020, 709, 136165.	3.9	41
18	WATPRO: A remote sensing based model for mapping water productivity of wheat. <i>Agricultural Water Management</i> , 2010, 97, 1628-1636.	2.4	40

#	ARTICLE	IF	CITATIONS
19	Towards ecosystem accounting: a comprehensive approach to modelling multiple hydrological ecosystem services. <i>Hydrology and Earth System Sciences</i> , 2015, 19, 4377-4396.	1.9	39
20	Spatial modelling of rice yield losses in Tanzania due to bacterial leaf blight and leaf blast in a changing climate. <i>Climatic Change</i> , 2016, 135, 569-583.	1.7	35
21	FAILURE AND SUCCESS FACTORS OF IRRIGATION SYSTEM DEVELOPMENTS: A CASE STUDY FROM THE OUAÏ AND ZOU VALLEYS IN BENIN. <i>Irrigation and Drainage</i> , 2014, 63, 328-339.	0.8	28
22	The potential for expansion of irrigated rice under alternate wetting and drying in Burkina Faso. <i>Agricultural Water Management</i> , 2021, 247, 106758.	2.4	27
23	Contributions of lateral flow and groundwater to the spatio-temporal variation of irrigated rice yields and water productivity in a West-African inland valley. <i>Agricultural Water Management</i> , 2015, 152, 286-298.	2.4	26
24	A spatially explicit approach to assess the suitability for rice cultivation in an inland valley in central Benin. <i>Agricultural Water Management</i> , 2016, 177, 95-106.	2.4	22
25	Analysing spatial-temporal changes in rice cultivation practices in the Senegal River Valley using MODIS time-series and the PhenoRice algorithm. <i>International Journal of Applied Earth Observation and Geoinformation</i> , 2019, 75, 15-28.	1.4	20
26	Thirty years of water management research for rice in sub-Saharan Africa: Achievement and perspectives. <i>Field Crops Research</i> , 2022, 283, 108548.	2.3	20
27	Diversity of inland valleys and opportunities for agricultural development in Sierra Leone. <i>PLoS ONE</i> , 2017, 12, e0180059.	1.1	19
28	Seasonal evaluation of the land surface scheme HTESSEL against remote sensing derived energy fluxes of the Transdanubian region in Hungary. <i>Hydrology and Earth System Sciences</i> , 2011, 15, 1257-1271.	1.9	18
29	Rice Intensification in a Changing Environment: Impact on Water Availability in Inland Valley Landscapes in Benin. <i>Water (Switzerland)</i> , 2018, 10, 74.	1.2	15
30	Predictors determining the potential of inland valleys for rice production development in West Africa. <i>Applied Geography</i> , 2018, 96, 86-97.	1.7	15
31	Mapping land suitability for informal, small-scale irrigation development using spatial modelling and machine learning in the Upper East Region, Ghana. <i>Science of the Total Environment</i> , 2022, 803, 149959.	3.9	14
32	Comparing water quantity and quality in three inland valley watersheds with different levels of agricultural development in central Benin. <i>Agricultural Water Management</i> , 2017, 192, 257-270.	2.4	12
33	Ecological sustainability and environmental risks of agricultural intensification in inland valleys in Benin. <i>Environment, Development and Sustainability</i> , 2019, 21, 1869-1890.	2.7	12
34	Comparative analysis of the pysebal model and lysimeter for estimating actual evapotranspiration of soybean crop in Adana, Turkey. <i>International Journal of Engineering and Geosciences</i> , 2020, 5, 60-65.	1.8	12
35	Contrasting changes in hydrological processes of the Volta River basin under global warming. <i>Hydrology and Earth System Sciences</i> , 2022, 26, 1481-1506.	1.9	12
36	Spatiotemporal Assessment of Irrigation Performance of the Kou Valley Irrigation Scheme in Burkina Faso Using Satellite Remote Sensing-Derived Indicators. <i>ISPRS International Journal of Geo-Information</i> , 2020, 9, 484.	1.4	11

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37	Characterization of the mangrove swamp rice soils along the Great Scarcies River in Sierra Leone using principal component analysis. <i>Catena</i> , 2018, 163, 54-62.	2.2	10
38	Quantifying trade-offs between future yield levels, food availability and forest and woodland conservation in Benin. <i>Science of the Total Environment</i> , 2018, 610-611, 1581-1589.	3.9	10
39	Predictors of Drought in Inland Valley Landscapes and Enabling Factors for Rice Farmers's™ Mitigation Measures in the Sudan-Sahel Zone. <i>Sustainability</i> , 2019, 11, 79.	1.6	10
40	Monitoring spatial-temporal variations of surface areas of small reservoirs in Ghana's Upper East Region using Sentinel-2 satellite imagery and machine learning. <i>Physics and Chemistry of the Earth</i> , 2022, 125, 103082.	1.2	10
41	A New Conceptual Framework for Integrating Earth Observation in Large-scale Wetland Management in East Africa. <i>Wetlands</i> , 2021, 41, 1.	0.7	9
42	Climate change-induced reduction in agricultural land suitability of West-Africa's inland valley landscapes. <i>Agricultural Systems</i> , 2022, 200, 103429.	3.2	9
43	Modelling the forest and woodland-irrigation nexus in tropical Africa: A case study in Benin. <i>Agriculture, Ecosystems and Environment</i> , 2016, 230, 105-115.	2.5	6
44	SEBAL For Detecting Spatial Variation Of Water Productivity For Wheat In The Yaqui Valley, Mexico. <i>AIP Conference Proceedings</i> , 2006, , .	0.3	4
45	Filling in the gaps: first record of <i>Sousa teuszii</i> in Benin (Gulf of Guinea: Africa). <i>Marine Biodiversity Records</i> , 2014, 7, .	1.2	4
46	A geospatial database of drought occurrence in inland valleys in Mali, Burkina Faso and Nigeria. <i>Data in Brief</i> , 2018, 19, 2008-2014.	0.5	4
47	A geospatial dataset of inland valleys in four zones in Benin, Sierra Leone and Mali. <i>Data in Brief</i> , 2019, 23, 103699.	0.5	2