

Ann van Griensven

List of Publications by Year in descending order

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71
papers

4,432
citations

147801

31
h-index

106344

65
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73
all docs

73
docs citations

73
times ranked

4932
citing authors

#	ARTICLE	IF	CITATIONS
1	Integrating spatial and social characteristics in the DPSIR framework for the sustainable management of river basins: case study of the Katari River Basin, Bolivia. <i>Water International</i> , 2022, 47, 8-29.	1.0	10
2	Water Erosion Monitoring and Prediction in Response to the Effects of Climate Change Using RUSLE and SWAT Equations: Case of Râ€™™Dom Watershed in Morocco. <i>Land</i> , 2022, 11, 93.	2.9	24
3	A fast and effective parameterization of water quality models. <i>Environmental Modelling and Software</i> , 2022, 149, 105331.	4.5	5
4	Evaluating Probability Distribution Functions for the Standardized Precipitation Evapotranspiration Index over Ethiopia. <i>Atmosphere</i> , 2022, 13, 364.	2.3	9
5	Land Cover Change and Water Quality: How Remote Sensing Can Help Understand Driverâ€™Impact Relations in the Lake Titicaca Basin. <i>Water (Switzerland)</i> , 2022, 14, 1021.	2.7	6
6	On the Calibration of Spatially Distributed Hydrologic Models for Poorly Gauged Basins: Exploiting Information from Streamflow Signatures and Remote Sensing-Based Evapotranspiration Data. <i>Water (Switzerland)</i> , 2022, 14, 1252.	2.7	3
7	Water Resources Studies in Headwaters of the Blue Nile Basin: A Review with Emphasis on Lake Water Balance and Hydrogeological Characterization. <i>Water (Switzerland)</i> , 2021, 13, 1469.	2.7	6
8	Modeling and Prioritizing Interventions Using Pollution Hotspots for Reducing Nutrients, Atrazine and E. coli Concentrations in a Watershed. <i>Sustainability</i> , 2021, 13, 103.	3.2	8
9	User-friendly workflows for catchment modelling: Towards reproducible SWAT+ model studies. <i>Environmental Modelling and Software</i> , 2020, 134, 104812.	4.5	17
10	Smart renewable electricity portfolios in West Africa. <i>Nature Sustainability</i> , 2020, 3, 710-719.	23.7	66
11	Identifying erosion hotspots in Lake Tana Basin from a multisite Soil and Water Assessment Tool validation: Opportunity for land managers. <i>Land Degradation and Development</i> , 2019, 30, 1449-1467.	3.9	47
12	Impact of measurement error and limited data frequency on parameter estimation and uncertainty quantification. <i>Environmental Modelling and Software</i> , 2019, 118, 35-47.	4.5	15
13	Automatic Proba-V Processor: TREXâ€™™Tool for Raster Data Exploration. <i>Remote Sensing</i> , 2019, 11, 2538.	4.0	3
14	WetSpa-Urban: An Adapted Version of WetSpa-Python, A Suitable Tool for Detailed Runoff Calculation in Urban Areas. <i>Water (Switzerland)</i> , 2019, 11, 2460.	2.7	5
15	Evaluation and Application of Multi-Source Satellite Rainfall Product CHIRPS to Assess Spatio-Temporal Rainfall Variability on Data-Sparse Western Margins of Ethiopian Highlands. <i>Remote Sensing</i> , 2019, 11, 2688.	4.0	51
16	Evaluation and application of alternative rainfall data sources for forcing hydrologic models in the Mara Basin. <i>Hydrology Research</i> , 2018, 49, 1271-1282.	2.7	9
17	Explicit incipient motion of cohesive and nonâ€™cohesive sediments using simple hydraulics. <i>Depositional Record</i> , 2018, 4, 78-89.	1.7	5
18	Sediment related impacts of climate change and reservoir development in the Lower Mekong River Basin: a case study of the Nam Ou Basin, Lao PDR. <i>Climatic Change</i> , 2018, 149, 13-27.	3.6	31

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19	A heuristic probabilistic approach to estimating size-dependent mobility of nonuniform sediment. <i>Stochastic Environmental Research and Risk Assessment</i> , 2018, 32, 1771-1782.	4.0	2
20	Model-Based Evaluation of Land Management Strategies with Regard to Multiple Ecosystem Services. <i>Sustainability</i> , 2018, 10, 3844.	3.2	15
21	Comparison of the Performance of Six Drought Indices in Characterizing Historical Drought for the Upper Blue Nile Basin, Ethiopia. <i>Geosciences (Switzerland)</i> , 2018, 8, 81.	2.2	108
22	Calibration of Spatially Distributed Hydrological Processes and Model Parameters in SWAT Using Remote Sensing Data and an Auto-Calibration Procedure: A Case Study in a Vietnamese River Basin. <i>Water (Switzerland)</i> , 2018, 10, 212.	2.7	44
23	A distributed monthly water balance model: formulation and application on Black Volta Basin. <i>Environmental Earth Sciences</i> , 2017, 76, 1.	2.7	56
24	Intercomparison of regional-scale hydrological models and climate change impacts projected for 12 large river basins worldwide—a synthesis. <i>Environmental Research Letters</i> , 2017, 12, 105002.	5.2	109
25	Hysteresis and parent-metabolite analyses unravel characteristic pesticide transport mechanisms in a mixed land use catchment. <i>Water Research</i> , 2017, 124, 663-672.	11.3	3
26	A new unconditionally stable and consistent quasi-analytical in-stream water quality solution scheme for <sc>STR-based water quality simulators. <i>Water Resources Research</i> , 2017, 53, 4668-4690.	4.2	5
27	A comparison of changes in river runoff from multiple global and catchment-scale hydrological models under global warming scenarios of 1°C, 2°C and 3°C. <i>Climatic Change</i> , 2017, 141, 577-595.	3.6	104
28	Evaluation of sources of uncertainty in projected hydrological changes under climate change in 12 large-scale river basins. <i>Climatic Change</i> , 2017, 141, 419-433.	3.6	192
29	Effect of Single and Multisite Calibration Techniques on the Parameter Estimation, Performance, and Output of a SWAT Model of a Spatially Heterogeneous Catchment. <i>Journal of Hydrologic Engineering - ASCE</i> , 2017, 22, .	1.9	39
30	Evapotranspiration Mapping in a Heterogeneous Landscape Using Remote Sensing and Global Weather Datasets: Application to the Mara Basin, East Africa. <i>Remote Sensing</i> , 2017, 9, 390.	4.0	37
31	Land suitability analysis for agriculture in the Abbay basin using remote sensing, GIS and AHP techniques. <i>Modeling Earth Systems and Environment</i> , 2016, 2, 1.	3.4	112
32	Evaluating CFSR and WATCH Data as Input to SWAT for the Estimation of the Potential Evapotranspiration in a Data-Scarce Eastern-African Catchment. <i>Journal of Hydrologic Engineering - ASCE</i> , 2016, 21, .	1.9	29
33	Quantification and characterization of glyphosate use and loss in a residential area. <i>Science of the Total Environment</i> , 2015, 517, 207-214.	8.0	35
34	Modelling sediment and total phosphorus export from a lowland catchment: comparing sediment routing methods. <i>Hydrological Processes</i> , 2015, 29, 280-294.	2.6	18
35	Comparison and Evaluation of Model Structures for the Simulation of Pollution Fluxes in a Tile-Drained River Basin. <i>Journal of Environmental Quality</i> , 2014, 43, 86-99.	2.0	13
36	Multiobjective Calibration for Comparing Channel Sediment Routing Models in the Soil and Water Assessment Tool. <i>Journal of Environmental Quality</i> , 2014, 43, 110-120.	2.0	17

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37	Modelling Escherichia coli dynamics in the river Zenne (Belgium) using an OpenMI based integrated model. <i>Journal of Hydroinformatics</i> , 2014, 16, 354-374.	2.4	12
38	Spatial-temporal variability in water quality and macro-invertebrate assemblages in the Upper Mara River basin, Kenya. <i>Physics and Chemistry of the Earth</i> , 2014, 67-69, 93-104.	2.9	42
39	Effect of temporal resolution of water level and temperature inputs on numerical simulation of groundwater-surface water flux exchange in a heavily modified urban river. <i>Hydrological Processes</i> , 2013, 27, 1634-1645.	2.6	7
40	Comparison of sediment transport computations using hydrodynamic versus hydrologic models in the Simiyu River in Tanzania. <i>Physics and Chemistry of the Earth</i> , 2013, 61-62, 12-21.	2.9	19
41	OpenMI-based integrated sediment transport modelling of the river Zenne, Belgium. <i>Environmental Modelling and Software</i> , 2013, 47, 193-206.	4.5	57
42	Distributed computation of large scale SWAT models on the Grid. <i>Environmental Modelling and Software</i> , 2013, 41, 223-230.	4.5	43
43	Characterizing Climate Model Uncertainty Using an Informal Bayesian Framework: Application to the River Nile. <i>Journal of Hydrologic Engineering - ASCE</i> , 2013, 18, 582-589.	1.9	8
44	Downscaling technique uncertainty in assessing hydrological impact of climate change in the Upper Beles River Basin, Ethiopia. <i>Hydrology Research</i> , 2013, 44, 377-398.	2.7	23
45	Impact of climate change on sediment yield in the Mekong River basin: a case study of the Nam Ou basin, Lao PDR. <i>Hydrology and Earth System Sciences</i> , 2013, 17, 1-20.	4.9	156
46	Critical review of SWAT applications in the upper Nile basin countries. <i>Hydrology and Earth System Sciences</i> , 2012, 16, 3371-3381.	4.9	136
47	A study of the climate change impacts on fluvial flood propagation in the Vietnamese Mekong Delta. <i>Hydrology and Earth System Sciences</i> , 2012, 16, 4637-4649.	4.9	62
48	Future hydrology and climate in the River Nile basin: a review. <i>Hydrological Sciences Journal</i> , 2011, 56, 199-211.	2.6	98
49	Sediment management modelling in the Blue Nile Basin using SWAT model. <i>Hydrology and Earth System Sciences</i> , 2011, 15, 807-818.	4.9	308
50	Comparison of flood management options for the Yang River Basin, Thailand. <i>Irrigation and Drainage</i> , 2011, 60, 526-543.	1.7	17
51	New challenges in integrated water quality modelling. <i>Hydrological Processes</i> , 2010, 24, 3447-3461.	2.6	105
52	On numerical solver selection and related uncertainty terminology. <i>Journal of Hydroinformatics</i> , 2010, 12, 241-250.	2.4	4
53	Modifications to the SWAT code for modelling direct pesticide losses. <i>Environmental Modelling and Software</i> , 2008, 23, 72-81.	4.5	53
54	Autocalibration in hydrologic modeling: Using SWAT2005 in small-scale watersheds. <i>Environmental Modelling and Software</i> , 2008, 23, 422-434.	4.5	156

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55	SWAT developments and recommendations for modelling agricultural pesticide mitigation measures in river basins. <i>Hydrological Sciences Journal</i> , 2008, 53, 1075-1089.	2.6	31
56	Fit-for-purpose analysis of uncertainty using split-sampling evaluations. <i>Hydrological Sciences Journal</i> , 2008, 53, 1090-1103.	2.6	42
57	Méthodologie pour l'adaptation de données physiographiques canadiennes au modèle de qualité de l'eau SWAT « soil water assessment tool ». <i>Journal of Environmental Engineering and Science</i> , 2008, 7, 453-466.	0.8	2
58	Evaluation of streamflow simulation by SWAT model for two small watersheds under snowmelt and rainfall. <i>Hydrological Sciences Journal</i> , 2008, 53, 961-976.	2.6	78
59	A global and efficient multi-objective auto-calibration and uncertainty estimation method for water quality catchment models. <i>Journal of Hydroinformatics</i> , 2007, 9, 277-291.	2.4	105
60	Modelling the Effectiveness of Agricultural Measures to Reduce the Amount of Pesticides Entering Surface Waters. <i>Water Resources Management</i> , 2007, 21, 2027-2035.	3.9	32
61	A global sensitivity analysis tool for the parameters of multi-variable catchment models. <i>Journal of Hydrology</i> , 2006, 324, 10-23.	5.4	980
62	Reply to: Comment on "A critical comparison of systematic calibration protocols for activated sludge models: A SWOT analysis". <i>Water Research</i> , 2006, 40, 2994-2996.	11.3	1
63	Environmental and ecological hydroinformatics to support the implementation of the European Water Framework Directive for river basin management. <i>Journal of Hydroinformatics</i> , 2006, 8, 239-252.	2.4	23
64	Effect of different river water quality model concepts used for river basin management decisions. <i>Water Science and Technology</i> , 2006, 53, 277-284.	2.5	4
65	Methods to quantify and identify the sources of uncertainty for river basin water quality models. <i>Water Science and Technology</i> , 2006, 53, 51-59.	2.5	176
66	The CatchMod toolbox: easy and guided access to ICT tools for Water Framework Directive implementation. <i>Water Science and Technology</i> , 2006, 53, 285-292.	2.5	3
67	Application and evaluation of ESWAT on the Dender basin and the Wister Lake basin. <i>Hydrological Processes</i> , 2005, 19, 827-838.	2.6	32
68	Application of Automated Measurement Stations for Continuous Water Quality Monitoring of the Dender River in Flanders, Belgium. <i>Environmental Monitoring and Assessment</i> , 2005, 108, 85-98.	2.7	19
69	Sensitivity analysis for hydrology and pesticide supply towards the river in SWAT. <i>Physics and Chemistry of the Earth</i> , 2005, 30, 518-526.	2.9	190
70	A critical comparison of systematic calibration protocols for activated sludge models: A SWOT analysis. <i>Water Research</i> , 2005, 39, 2459-2474.	11.3	108
71	Spatio-temporal assessment of meteorological drought under the influence of varying record length: the case of Upper Blue Nile Basin, Ethiopia. <i>Hydrological Sciences Journal</i> , 0, , 1-16.	2.6	39