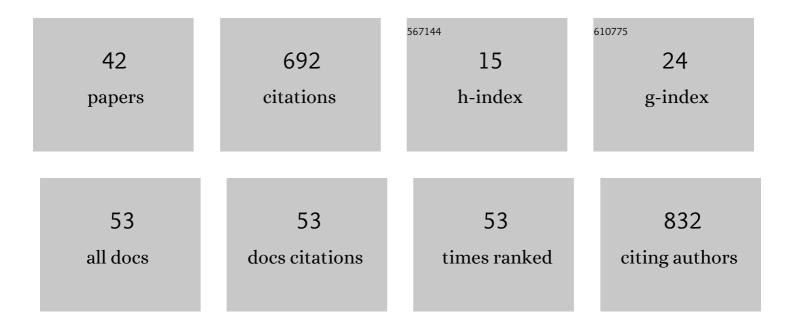
Niels Schütze

List of Publications by Year in descending order

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#	Article	IF	CITATIONS
1	Evaluation of Crop Models for Simulating and Optimizing Deficit Irrigation Systems in Arid and Semi-arid Countries Under Climate Variability. Water Resources Management, 2012, 26, 997-1014.	1.9	52
2	Towards an integrated arid zone water management using simulation-based optimisation. Environmental Earth Sciences, 2012, 65, 1381-1394.	1.3	51
3	Analysis of AET and yield predictions under surface and buried drip irrigation systems using the Crop Model PILOTE and Hydrus-2D. Agricultural Water Management, 2011, 98, 1033-1044.	2.4	41
4	OCCASION: New Planning Tool for Optimal Climate Change Adaption Strategies in Irrigation. Journal of Irrigation and Drainage Engineering - ASCE, 2010, 136, 836-846.	0.6	40
5	Novel simulation-based algorithms for optimal open-loop and closed-loop scheduling of deficit irrigation systems. Journal of Hydroinformatics, 2012, 14, 136-151.	1.1	34
6	New Strategy for Optimizing Water Application under Trickle Irrigation. Journal of Irrigation and Drainage Engineering - ASCE, 2002, 128, 287-297.	0.6	33
7	The chaos in calibrating crop models: Lessons learned from a multi-model calibration exercise. Environmental Modelling and Software, 2021, 145, 105206.	1.9	31
8	How well do crop modeling groups predict wheat phenology, given calibration data from the target population?. European Journal of Agronomy, 2021, 124, 126195.	1.9	27
9	Optimal planning and operation of irrigation systems under water resource constraints in Oman considering climatic uncertainty. Environmental Earth Sciences, 2012, 65, 1511-1521.	1.3	26
10	Automatic Model Structure Identification for Conceptual Hydrologic Models. Water Resources Research, 2020, 56, e2019WR027009.	1.7	25
11	Threeâ€Dimensional Modeling of Multiple Automated Equilibrium Tension Lysimeters to Measure Vadose Zone Fluxes. Vadose Zone Journal, 2009, 8, 1051-1063.	1.3	24
12	Field Evaluation of Irrigation Scheduling Strategies using a Mechanistic Crop Growth Model. Irrigation and Drainage, 2016, 65, 214-223.	0.8	22
13	Modelling the impact of drought and heat stress on common bean with two different photosynthesis model approaches. Environmental Modelling and Software, 2016, 81, 111-121.	1.9	22
14	Potential of Deficit and Supplemental Irrigation under Climate Variability in Northern Togo, West Africa. Water (Switzerland), 2018, 10, 1803.	1.2	20
15	Impact of irrigation on plant growth and development of white cabbage. Agricultural Water Management, 2017, 187, 99-111.	2.4	19
16	Multi-model evaluation of phenology prediction for wheat in Australia. Agricultural and Forest Meteorology, 2021, 298-299, 108289.	1.9	17
17	An integrated approach to conceptualise hydrological and socio-economic interaction for supporting management decisions of coupled groundwater–agricultural systems. Environmental Earth Sciences, 2014, 72, 4917-4933.	1.3	16
18	Optimal Irrigation Scheduling, Irrigation Control and Drip Line Layout to Increase Water Productivity and Profit in Subsurface Dripâ€Irrigated Agriculture. Irrigation and Drainage, 2015, 64, 501-518.	0.8	16

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#	Article	IF	CITATIONS
19	A Serious Board Game to Analyze Socio-Ecological Dynamics towards Collaboration in Agriculture. Sustainability, 2020, 12, 5301.	1.6	15
20	A Fuzzy-Stochastic Modeling Approach for Multiple Criteria Decision Analysis of Coupled Groundwater-Agricultural Systems. Water Resources Management, 2016, 30, 2075-2095.	1.9	14
21	Portrayal of fuzzy recharge areas for water balance modelling – a case study in northern Oman. Advances in Geosciences, 0, 31, 1-7.	12.0	14
22	Self-organizing maps with multiple input-output option for modeling the Richards equation and its inverse solution. Water Resources Research, 2005, 41, .	1.7	13
23	Sustainable management of a coupled groundwater–agriculture hydrosystem using multi-criteria simulation based optimisation. Water Science and Technology, 2013, 67, 689-698.	1.2	13
24	Optimal groundwater management using state-space surrogate models: a case study for an arid coastal region. Journal of Hydroinformatics, 2016, 18, 666-686.	1.1	12
25	Investigation of deficit irrigation strategies combining SVAT-modeling, optimization and experiments. Environmental Earth Sciences, 2014, 72, 4901-4915.	1.3	10
26	Integrated water resources management under different hydrological, climatic and socio-economic conditions: results and lessons learned from a transdisciplinary IWRM project IWAS. Environmental Earth Sciences, 2014, 72, 4677-4687.	1.3	9
27	Simulation of Water-Use Efficiency of Crops under Different Irrigation Strategies. Water (Switzerland), 2020, 12, 2930.	1.2	9
28	Managing saltwater intrusion in coastal arid regions and its societal implications for agriculture. Proceedings of the International Association of Hydrological Sciences, 0, 373, 31-35.	1.0	9
29	Evaluation of Very High Soil-Water Tension Threshold Values in Sensor-Based Deficit Irrigation Systems. Journal of Irrigation and Drainage Engineering - ASCE, 2014, 140, .	0.6	8
30	Evaluation of Hydroclimatic Variability and Prospective Irrigation Strategies in the U.S. Corn Belt. Water (Switzerland), 2019, 11, 2447.	1.2	8
31	Estimation of Yield Response Factor for Each Growth Stage under Local Conditions Using AquaCrop-OS. Water (Switzerland), 2020, 12, 1080.	1.2	6
32	Water requirements for oil palm grown on marginal lands: A simulation approach. Agricultural Water Management, 2022, 260, 107292.	2.4	6
33	Determining crop-production functions using multi-objective evolutionary algorithms. , 2010, , .		5
34	Irrigation water demand of common bean on field and regional scale under varying climatic conditions. Meteorologische Zeitschrift, 2016, 25, 365-375.	0.5	4
35	Small-scale (flash) flood early warning in the light of operational requirements: opportunities and limits with regard to user demands, driving data, and hydrologic modeling techniques. Proceedings of the International Association of Hydrological Sciences, 0, 373, 201-208.	1.0	4
36	Towards an optimal integrated reservoir system management for the Awash River Basin, Ethiopia. Proceedings of the International Association of Hydrological Sciences, 0, 373, 215-219.	1.0	4

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#	Article	IF	CITATIONS
37	Flash flood forecasting combining meteorological ensemble forecasts and uncertainty of initial hydrological conditions. Australian Journal of Water Resources, 2008, 12, 257-267.	1.6	3
38	EVALUATION OF THE TRANSFERABILITY OF A SVAT MODEL––RESULTS FROM FIELD AND GREENHOUSE APPLICATIONS. Irrigation and Drainage, 2011, 60, 59-70.	0.8	3
39	Multi-objective optimization of multi-purpose multi-reservoir systems under high reliability constraints. Environmental Earth Sciences, 2016, 75, 1.	1.3	2
40	Integrated management of water resources demand and supply in irrigated agriculture from plot to regional scale. Proceedings of the International Association of Hydrological Sciences, 0, 373, 51-55.	1.0	2
41	An economic-based estimation of irrigation water demand. WIT Transactions on Ecology and the Environment, 2014, , .	0.0	1
42	An Economic-Based Evaluation of Maize Production under Deficit and Supplemental Irrigation for Smallholder Farmers in Northern Togo, West Africa. Resources, 2019, 8, 175.	1.6	0