

# Jennie Barron

## List of Publications by Year in descending order

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Version: 2024-02-01

45  
papers

2,150  
citations

361045

20  
h-index

301761

39  
g-index

47  
all docs

47  
docs citations

47  
times ranked

2373  
citing authors

#	ARTICLE	IF	CITATIONS
1	Managing water in rainfed agriculture – The need for a paradigm shift. <i>Agricultural Water Management</i> , 2010, 97, 543-550.	2.4	475
2	Dry spell analysis and maize yields for two semi-arid locations in east Africa. <i>Agricultural and Forest Meteorology</i> , 2003, 117, 23-37.	1.9	277
3	Rainwater management for increased productivity among small-holder farmers in drought prone environments. <i>Physics and Chemistry of the Earth</i> , 2002, 27, 949-959.	1.2	192
4	Water productivity in rainfed systems: overview of challenges and analysis of opportunities in water scarcity prone savannahs. <i>Irrigation Science</i> , 2007, 25, 299-311.	1.3	134
5	Assessing impacts of agricultural water interventions in the Kothapally watershed, Southern India. <i>Hydrological Processes</i> , 2012, 26, 387-404.	1.1	98
6	A review of trends, constraints and opportunities of smallholder irrigation in East Africa. <i>Global Food Security</i> , 2018, 17, 196-212.	4.0	85
7	Run-off water harvesting for dry spell mitigation in maize ( <i>Zea mays</i> L.): results from on-farm research in semi-arid Kenya. <i>Agricultural Water Management</i> , 2005, 74, 1-21.	2.4	75
8	A framework for modelling soil structure dynamics induced by biological activity. <i>Global Change Biology</i> , 2020, 26, 5382-5403.	4.2	75
9	Suitability mapping framework for solar photovoltaic pumps for smallholder farmers in sub-Saharan Africa. <i>Applied Geography</i> , 2018, 94, 41-57.	1.7	55
10	On-farm Spatial and Temporal Variability of Soil and Water in Pearl Millet Cultivation. <i>Soil Science Society of America Journal</i> , 1999, 63, 1308-1319.	1.2	54
11	Monitoring and evaluation of climate resilience for agricultural development – A review of currently available tools. <i>World Development Perspectives</i> , 2017, 5, 10-23.	0.8	52
12	Towards a relational understanding of the water-energy-food nexus: an analysis of embeddedness and governance in the Upper Blue Nile region of Ethiopia. <i>Environmental Science and Policy</i> , 2018, 90, 173-182.	2.4	45
13	Yield and soil system changes from conservation tillage in dryland farming: A case study from North Eastern Tanzania. <i>Agricultural Water Management</i> , 2011, 98, 1687-1695.	2.4	39
14	Upscaling potential impacts on water flows from agricultural water interventions: opportunities and trade-offs in the Osman Sagar catchment, Musi sub-basin, India. <i>Hydrological Processes</i> , 2013, 27, 3905-3921.	1.1	33
15	The Re-Greening of the Sahel: Natural Cyclicity or Human-Induced Change?. <i>Land</i> , 2014, 3, 1075-1090.	1.2	33
16	Estimating the global potential of water harvesting from successful case studies. <i>Global Environmental Change</i> , 2020, 63, 102121.	3.6	33
17	Water Scarcity and Challenges for Smallholder Agriculture. , 2019, , 75-94.		30
18	Building climate resilience in degraded agricultural landscapes through water management: A case study of Bundelkhand region, Central India. <i>Journal of Hydrology</i> , 2020, 591, 125592.	2.3	30

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19	Taking stock of forty years of agricultural water management interventions in smallholder systems of Burkina Faso. <i>Water Resources and Rural Development</i> , 2014, 3, 1-13.	1.1	25
20	A global and regional perspective of rainwater harvesting in sub-Saharan Africa's rainfed farming systems. <i>Physics and Chemistry of the Earth</i> , 2014, 72-75, 43-53.	1.2	24
21	Deep Tillage Improves Degraded Soils in the (Sub) Humid Ethiopian Highlands. <i>Land</i> , 2019, 8, 159.	1.2	23
22	Impact of best management practices on sustainable crop production and climate resilience in smallholder farming systems of South Asia. <i>Agricultural Systems</i> , 2021, 194, 103276.	3.2	23
23	Establishing irrigation potential of a hillside aquifer in the African highlands. <i>Hydrological Processes</i> , 2020, 34, 1741-1753.	1.1	21
24	Land Cover Transition in Northern Tanzania. <i>Land Degradation and Development</i> , 2016, 27, 682-692.	1.8	19
25	Participatory geographic information systems for agricultural water management scenario development: A Tanzanian case study. <i>Physics and Chemistry of the Earth</i> , 2011, 36, 1093-1102.	1.2	14
26	Analysis of water quality of selected irrigation water sources in northern Ghana. <i>Water Science and Technology: Water Supply</i> , 2018, 18, 1308-1317.	1.0	13
27	Multiple uses of small reservoirs in crop-livestock agro-ecosystems of Volta basin: Implications for livestock management. <i>Agricultural Water Management</i> , 2018, 204, 81-90.	2.4	11
28	Towards environmentally sound intensification pathways for dairy development in the Tanga region of Tanzania. <i>Regional Environmental Change</i> , 2020, 20, 1.	1.4	10
29	Setting up agricultural water management interventions "learning from successful case studies in the Volta and Limpopo river basins. <i>Water Resources and Rural Development</i> , 2015, 6, 12-23.	1.1	9
30	The Significance of Small Reservoirs in Sustaining Agricultural Landscapes in Dry Areas of West Africa: A Review. <i>Water (Switzerland)</i> , 2022, 14, 1440.	1.2	9
31	Coping with Rainfall Variability: Dry Spell Mitigation and Implication on Landscape Water Balances in Small-scale Farming Systems in Semi-arid Niger. <i>International Journal of Water Resources Development</i> , 2010, 26, 543-559.	1.2	8
32	Simulated water resource impacts and livelihood implications of stakeholder-developed scenarios in the Jaldhaka Basin, India. <i>Water International</i> , 2012, 37, 492-508.	0.4	7
33	Berken plow and intercropping with pigeon pea ameliorate degraded soils with a hardpan in the Ethiopian highlands. <i>Geoderma</i> , 2022, 407, 115523.	2.3	6
34	Relative entropy as an index of soil structure. <i>European Journal of Soil Science</i> , 2022, 73, .	1.8	5
35	The role of water in transforming food systems. <i>Global Food Security</i> , 2022, 33, 100639.	4.0	4
36	Understanding Complexity in Freshwater Management: Practitioners' Perspectives in The Netherlands. <i>Water (Switzerland)</i> , 2020, 12, 593.	1.2	3

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37	Investing in sustainable intensification for smallholders: quantifying large-scale costs and benefits in Uganda. <i>Environmental Research Letters</i> , 2022, 17, 045010.	2.2	3
38	Traditional Rainwater Management (Haveli cultivation) for Building System Level Resilience in a Fragile Ecosystem of Bundelkhand Region, Central India. <i>Frontiers in Sustainable Food Systems</i> , 2022, 6, .	1.8	3
39	Energy and Environment. , 0, , 191-254.		2
40	Building Climate Resilience in Rainfed Landscapes Needs More Than Good Will. <i>Frontiers in Climate</i> , 2021, 3, .	1.3	2
41	Vegetation improvement and soil biological quality in the Sahel of Burkina Faso. <i>International Journal of Biological and Chemical Sciences</i> , 2016, 10, 1048.	0.1	1
42	Closing the yield gap in the savannah zone. , 0, , 172-193.		0
43	Water resources and functions for agro-ecological systems at the landscape scale. , 0, , 194-224.		0
44	Reply to comment on "Up-scaling potential impacts on water flows from agricultural water interventions: opportunities and trade-offs in the Osman Sagar catchment, Musi sub-basin, India"™. <i>Hydrological Processes</i>27: 3905-3921 by Bouma<i>et al</i>.,. <i>Hydrological Processes</i> , 2014, 28, 3352-3355.	1.1	0
45	Science's "Policy Engagement to Achieve "Water for Society" Including All" Water (Switzerland), 2021, 13, 246.	1.2	0