

# Water Security and Society: Risks, Metrics, and Pathways

Annual Review of Environment and Resources

39, 611-639

DOI: [10.1146/annurev-environ-013012-093817](https://doi.org/10.1146/annurev-environ-013012-093817)

Citation Report

#	ARTICLE	IF	CITATIONS
1	The role of storage capacity in coping with intra- and inter-annual water variability in large river basins. <i>Environmental Research Letters</i> , 2015, 10, 125001.	5.2	34
2	Reusable and Long-Lasting Active Microcleaners for Heterogeneous Water Remediation. <i>Advanced Functional Materials</i> , 2016, 26, 4152-4161.	14.9	66
3	Assessing and measuring adaptive capacity: the experiences of African countries in developing meaningful metrics for water management. <i>Current Opinion in Environmental Sustainability</i> , 2016, 21, 9-14.	6.3	3
4	Towards joint consideration of adaptive capacity and water security: lessons from the arid Americas. <i>Current Opinion in Environmental Sustainability</i> , 2016, 21, 22-28.	6.3	8
5	Adaptive management and water security in a global context: definitions, concepts, and examples. <i>Current Opinion in Environmental Sustainability</i> , 2016, 21, 70-77.	6.3	39
6	Advancing metrics: models for understanding adaptive capacity and water security. <i>Current Opinion in Environmental Sustainability</i> , 2016, 21, 52-57.	6.3	22
7	Metrics of water security, adaptive capacity, and agroforestry in Indonesia. <i>Current Opinion in Environmental Sustainability</i> , 2016, 21, 1-8.	6.3	33
8	Reductionist and integrative research approaches to complex water security policy challenges. <i>Global Environmental Change</i> , 2016, 39, 143-154.	7.8	130
9	Integrating Supply Uncertainties from Stochastic Modeling into Integrated Water Resource Management: Case Study of the Saskatchewan River Basin. <i>Journal of Water Resources Planning and Management - ASCE</i> , 2016, 142, .	2.6	28
10	Progress in household water insecurity metrics: a cross-disciplinary approach. <i>Wiley Interdisciplinary Reviews: Water</i> , 2017, 4, e1214.	6.5	150
11	Technology and Engineering of the Water-Energy Nexus. <i>Annual Review of Environment and Resources</i> , 2017, 42, 407-437.	13.4	25
12	Urban water demand, climatic variation, and irrigation-water insecurity: interactive stressors and lessons for water governance from the Angat River basin (Philippines). <i>Water International</i> , 2017, 42, 543-567.	1.0	6
13	Advancing human capabilities for water security: A relational approach. <i>Water Security</i> , 2017, 1, 46-52.	2.5	154
14	Developing a water market readiness assessment framework. <i>Journal of Hydrology</i> , 2017, 552, 807-820.	5.4	77
15	The use of indicators in environmental policy appraisal: lessons from the design and evolution of water security policy measures. <i>Journal of Environmental Policy and Planning</i> , 2017, 19, 229-243.	2.8	25
16	Reconciling Drought Vulnerability Assessment Using a Convergent Approach: Application to Water Security in the Elqui River Basin, North-Central Chile. <i>Water (Switzerland)</i> , 2017, 9, 589.	2.7	6
17	Potable or Affordable?: A Comparative Study of Household Water Security Within a Transboundary Aquifer Along the U.S.-Mexico Border. <i>Journal of Latin American Geography</i> , 2017, 16, 29-58.	0.1	4
18	Model of Environmental Development of the Urbanized Areas: Accounting of Ecological and other Factors. <i>IOP Conference Series: Earth and Environmental Science</i> , 2017, 66, 012019.	0.3	4

#	ARTICLE	IF	CITATIONS
19	Analysis of the relationship between rainfall and economic growth in Indian states. <i>Global Environmental Change</i> , 2018, 49, 56-72.	7.8	17
20	Groundwater as a strategic resource for improved resilience: a case study from peri-urban Accra. <i>Environmental Earth Sciences</i> , 2018, 77, 1.	2.7	39
21	Risk, Robustness and Water Resources Planning Under Uncertainty. <i>Earth's Future</i> , 2018, 6, 468-487.	6.3	77
22	The Distributional and Multi-Sectoral Impacts of Rainfall Shocks: Evidence From Computable General Equilibrium Modelling for the Awash Basin, Ethiopia. <i>Ecological Economics</i> , 2018, 146, 621-632.	5.7	48
23	Avoiding the water-poverty trap: insights from a conceptual human-water dynamical model for coastal Bangladesh. <i>International Journal of Water Resources Development</i> , 2018, 34, 900-922.	2.0	26
24	A spatial evaluation of global wildfire-water risks to human and natural systems. <i>Science of the Total Environment</i> , 2018, 610-611, 1193-1206.	8.0	67
25	Urban water security - what does it mean?. <i>Urban Water Journal</i> , 2018, 15, 899-910.	2.1	25
26	Water security and the pursuit of food, energy, and earth systems resilience. <i>Water International</i> , 2018, 43, 1055-1074.	1.0	15
27	Urban Water Security Dashboard: Systems Approach to Characterizing the Water Security of Cities. <i>Journal of Water Resources Planning and Management - ASCE</i> , 2018, 144, .	2.6	43
28	Three-Stage Data Envelopment Analysis of Agricultural Water Use Efficiency: A Case Study of the Heihe River Basin. <i>Sustainability</i> , 2018, 10, 568.	3.2	22
29	Water security sustainability evaluation: Applying a multistage decision support framework in industrial region. <i>Journal of Cleaner Production</i> , 2018, 196, 1681-1704.	9.3	93
30	Urban water security: A review. <i>Environmental Research Letters</i> , 2018, 13, 053002.	5.2	215
31	Systems of Environmental Security of Urbanized Territories Within the Framework of the Program of Ecological Development of Urbanized Territories. <i>IOP Conference Series: Earth and Environmental Science</i> , 2019, 224, 012031.	0.3	5
32	An Assessment of the Pakistan Water Apportionment Accord of 1991. <i>Resources</i> , 2019, 8, 120.	3.5	7
33	Valoración de la seguridad hídrica con enfoque de cuenca hidrográfica: Aplicación en cuencas rurales del Centro Occidente de México. <i>Journal of Latin American Geography</i> , 2019, 18, 88-119.	0.1	2
34	Resilience Dynamics of Urban Water Supply Security and Potential of Tipping Points. <i>Earth's Future</i> , 2019, 7, 1167-1191.	6.3	25
35	“The San Antonio River Doesn’t Start in San Antonio, It Now Starts in Burleson County”: Stakeholder Perspectives on a Groundwater Transfer Project in Central Texas. <i>Society and Natural Resources</i> , 2019, 32, 1222-1238.	1.9	10
36	Water Security Assessment of China’s One Belt and One Road Region. <i>Water (Switzerland)</i> , 2019, 11, 607.	2.7	20

#	ARTICLE	IF	CITATIONS
37	Quantifying urban water supply security under global change. <i>Global Environmental Change</i> , 2019, 56, 66-74.	7.8	73
38	An assessment of household water insecurity in a rapidly developing coastal metropolitan region of Indonesia. <i>Sustainable Cities and Society</i> , 2019, 46, 101382.	10.4	7
39	State of future water regimes in the world's river basins: balancing the water between society and nature. <i>Critical Reviews in Environmental Science and Technology</i> , 2019, 49, 1107-1133.	12.8	46
40	Use of Risk Analysis for Water Security Assessment. <i>MATEC Web of Conferences</i> , 2019, 295, 02008.	0.2	0
41	Urban Water Security: Definition and Assessment Framework. <i>Resources</i> , 2019, 8, 178.	3.5	45
42	Influencing Indicators and Quantitative Assessment of Water Resources Security in Karst Region Based on PSER Model—The Case of Guizhou. <i>Sustainability</i> , 2019, 11, 5671.	3.2	7
43	Water security: stakeholders' arena in the Awash River Basin of Ethiopia. <i>Sustainable Water Resources Management</i> , 2019, 5, 513-531.	2.1	13
44	Water Security. , 2020, , 241-244.		1
45	Risk and sustainability assessment framework for decision support in 'water scarcity' water reuse' situations. <i>Journal of Hydrology</i> , 2020, 591, 125424.	5.4	22
46	Achieving Urban Water Security: a Review of Water Management Approach from Technology Perspective. <i>Water Resources Management</i> , 2020, 34, 4163-4179.	3.9	23
47	The toll of household water insecurity on health and human biology: Current understandings and future directions. <i>Wiley Interdisciplinary Reviews: Water</i> , 2020, 7, e1468.	6.5	62
48	A diagnostic dashboard to evaluate country water security. <i>Water Policy</i> , 2020, 22, 825-849.	1.5	7
49	Coping strategies for individual and household-level water insecurity: A systematic review. <i>Wiley Interdisciplinary Reviews: Water</i> , 2020, 7, e1477.	6.5	35
50	Assessing Water Security in Water-Scarce Cities: Applying the Integrated Urban Water Security Index (IUWSI) in Madaba, Jordan. <i>Water (Switzerland)</i> , 2020, 12, 1299.	2.7	26
51	Household Water Security: An Analysis of Water Affect in the Context of Hydraulic Fracturing in West Virginia, Appalachia. <i>Water (Switzerland)</i> , 2020, 12, 147.	2.7	14
52	Forecasts of mortality and economic losses from poor water and sanitation in sub-Saharan Africa. <i>PLoS ONE</i> , 2020, 15, e0227611.	2.5	20
53	The effects of drinking water service fragmentation on drought-related water security. <i>Science</i> , 2020, 368, 274-277.	12.6	38
54	A raw water security risk model for urban supply based on failure mode analysis. <i>Journal of Hydrology</i> , 2021, 593, 125843.	5.4	6

#	ARTICLE	IF	CITATIONS
55	Achieving water security in Nepal through unravelling the water-energy-agriculture nexus. International Journal of Water Resources Development, 2021, 37, 67-93.	2.0	41
56	Issues, Dimensions and Approaches of Assessing Urban Water Security in Developing and Emerging Countries: An Inclusive Perspective. , 2021, , 151-184.		4
57	Water allocation under climate change. Elementa, 2021, 9, .	3.2	7
58	The Water Security Discourse and Its Main Actors. , 2021, , 215-252.		4
59	Toward Urban Water Security: Broadening the Use of Machine Learning Methods for Mitigating Urban Water Hazards. Frontiers in Water, 2021, 2, .	2.3	10
61	Evaluating Vulnerability of Central Asian Water Resources under Uncertain Climate and Development Conditions: The Case of the Ili-Balkhash Basin. Water (Switzerland), 2021, 13, 615.	2.7	13
62	A review of 80 assessment tools measuring water security. Wiley Interdisciplinary Reviews: Water, 2021, 8, e1516.	6.5	36
63	Australian water security framings across administrative levels. Water Security, 2021, 12, 100083.	2.5	2
64	Selecting Indicators and Optimizing Decision Rules for Longâ€Term Water Resources Planning. Water Resources Research, 2021, 57, e2020WR028117.	4.2	7
65	Using indicators to assess transboundary water governance in the Great Lakes and Rio Grande-Bravo regions. Environmental and Sustainability Indicators, 2021, 10, 100102.	3.3	7
66	How is water security conceptualized and practiced for rural livelihoods in the global South? A systematic scoping review. Water Policy, 2021, 23, 1129-1152.	1.5	10
67	Contextualizing linkages between water security and global health in Africa, Asia and Europe. Geography matters in research, policy and practice. Water Security, 2021, 13, 100093.	2.5	8
68	The Accumulating Interest in Water Banks: Assessing Their Role in Mitigating Water Insecurities. Journal of the American Water Resources Association, 2021, 57, 552-571.	2.4	1
69	Assessing water security across scales: A case study of the United States. Applied Geography, 2021, 134, 102500.	3.7	12
70	Setting the scene: Nature-based solutions and water security. , 2021, , 3-18.		8
71	Resilience Assessment and Critical Point Identification for Urban Water Supply Systems under Uncertain Scenarios. Water (Switzerland), 2021, 13, 2939.	2.7	5
72	Pointing Towards Policy Success?: Water Policy Indicators in Practice. SSRN Electronic Journal, 0, , .	0.4	0
73	Water Security as a Normative Goal or as a Structural Principle for Water Governance. , 2018, , 201-231.		2

#	ARTICLE	IF	CITATIONS
75	Urban Water Security: Background and Concepts. Water Science and Technology Library, 2020, , 1-24.	0.3	1
76	Mitigating Polluted Runoff from Industrial Estates by SUDS Retrofits: Case Studies of Problems and Solutions Co-Designed with a Participatory Approach. Sustainability, 2021, 13, 12357.	3.2	1
77	Effect of Water Technological Factors on Water Accessibility among Residents of Baringo North. International Journal of Academic Research in Business and Social Sciences, 2020, 10, .	0.1	1
78	Urban Water Security: A Comparative Assessment and Policy Analysis of Five Cities in Diverse Developing Countries of Asia. SSRN Electronic Journal, 0, , .	0.4	0
79	An Integrated Quantitative Assessment of Urban Water Security of a Megacity in the Global South. Frontiers in Water, 2022, 4, .	2.3	6
80	Conjoint assessment of rural water security and system sustainability in Nagpur, India. International Journal of Disaster Resilience in the Built Environment, 2022, ahead-of-print, .	1.2	1
81	Integrated Design and Optimization of Water-Energy Nexus: Combining Wastewater Treatment and Energy System. Frontiers in Sustainable Cities, 2022, 4, .	2.4	1
82	Urban water security: A comparative assessment and policy analysis of five cities in diverse developing countries of Asia. Environmental Development, 2022, 43, 100713.	4.1	26
83	Addressing Water Security: An Overview. Sustainability, 2021, 13, 13702.	3.2	7
86	Integrated assessment of urban water supply security and resilience: towards a streamlined approach. Environmental Research Letters, 2022, 17, 075006.	5.2	6
87	A Study on Evaluation Method and Urban Water Security, Integrated Urban Water Management. European Journal of Science and Technology, 0, , .	0.5	0
88	Beyond the basin: Water security in transboundary environments. Water Security, 2022, 17, 100124.	2.5	6
89	A Framework for Water Security Data Gathering Strategies. Water (Switzerland), 2022, 14, 2907.	2.7	1
90	Modeling aquifer storage and recovery in the eastern district of the United Arab Emirates using MODFLOW. Scientific Reports, 2022, 12, .	3.3	2
91	The inequitable exposure of socially vulnerable groups to water shortages across the United States. Environmental Research Letters, 2023, 18, 044022.	5.2	1
92	Livelihood strategies to address water induced vulnerability on marginal settlements: Lessons from Northern Mozambique and Mumbai. Cuadernos De Investigaci3n Urban3stica, 2022, , 79-98.	0.1	0
93	Race, Ethnicity, and the Case for Intersectional Water Security. Global Environmental Politics, 2023, 23, 1-10.	3.0	1
94	Vulnerability Assessment of Groundwater-Based Public Drinking Water Supply System of Kamrup District, Assam, India Considering Social Parameters. Journal of the Institution of Engineers (India): Series A, 0, , .	1.2	0

#	ARTICLE	IF	CITATIONS
95	A tug of war between centralization and decentralization: the co-evolution of urban governance and water risks in Guwahati, India. Environmental Research Communications, 2023, 5, 065012.	2.3	0
96	Water risk modeling: A framework for finance. Journal of Environmental Management, 2023, 342, 117991.	7.8	0
97	Sorbents, processes and applications beyond water production in sorption-based atmospheric water harvesting. , 2023, 1, 573-586.		4
98	A transdisciplinary and collaborative urban water security framework: Developed through an interdisciplinary study in Kolkata, India. , 2023, 9, 519-549.		0
99	The role of forensic science in the generation of intelligence to address environmental water contamination problems. Wiley Interdisciplinary Reviews Forensic Science, 2023, 5, .	2.1	0
100	The limits of scalability: Uncovering friction between levels of flood risk governance in the French Alps. International Journal of Disaster Risk Reduction, 2023, 97, 104044.	3.9	0
101	Facile Synthesis of gC <sub>3</sub> N <sub>4</sub> -Exfoliated BiFeO <sub>3</sub> Nanocomposite: A Versatile and Efficient S-Scheme Photocatalyst for the Degradation of Various Textile Dyes and Antibiotics in Water. ACS Omega, 2023, 8, 38524-38538.	3.5	0
102	Frequency and perceived difficulty of household water experiences in Morogoro, Tanzania: Evidence of the psychosocial burden of water insecurity. SSM Mental Health, 2024, 5, 100295.	1.8	0