

Table S1: Papers included in scoping review.

Nr.	Author(s)	Publication year	Title	Journal
1	Onta, PR; Dasgupta, A; Harboe, R	1991	Multistep planning model for conjunctive use of surface-and ground-water resources	JOURNAL OF WATER RESOURCES PLANNING AND MANAGEMENT
2	Harada, Y; Sakuramoto, K; Tanaka, S	1992	On the stability of the stock-harvesting system controlled by a feedback management procedure	RESEARCHES ON POPULATION ECOLOGY
3	Mujumdar, PP; Vedula, S	1992	Performance evaluation of an irrigation system under some optimal operating policies	HYDROLOGICAL SCIENCES JOURNAL
4	Ives, AR	1995	Measuring resilience in stochastic systems	ECOLOGICAL MONOGRAPHS
5	Srinivasan, K; Philipose, M	1996	Evaluation and Selection of Hedging Policies Using Stochastic Reservoir Simulation	WATER RESOURCES MANAGEMENT
6	Loucks, DP	1997	Quantifying trends in system sustainability	HYDROLOGICAL SCIENCES JOURNAL
7	Xu, ZX; Jinno, K; Kawamura, A; Takesaki, S; Ito, K	1998	Performance Risk Analysis for Fukuoka Water Supply System	WATER RESOURCES MANAGEMENT
8	Perrings, C	1998	Resilience in the dynamics of economy-environment systems	ENVIRONMENTAL & RESOURCE ECONOMICS
9	Arreguin-Sanchez, F; Manickchand-Heileman, S	1998	The trophic role of lutjanid fish and impacts of their fisheries in two ecosystems in the Gulf of Mexico	JOURNAL OF FISH BIOLOGY
10	Batabyal, AA	1999	Species substitutability, resilience, and the optimal management of ecological-economic systems	MATHEMATICAL AND COMPUTER MODELLING

11	de Azevedo, LGT; Gates, TK; Fontane, DG; Labadie, JW; Porto, RL	2000	Integration of water quantity and quality in strategic river basin planning	JOURNAL OF WATER RESOURCES PLANNING AND MANAGEMENT
12	Perrings, C; Stern, DI	2000	Modelling loss of resilience in agroecosystems: Rangelands in Botswana	ENVIRONMENTAL & RESOURCE ECONOMICS
13	Ares, J; Bertiller, M; del Valle, H	2001	Functional and structural landscape indicators of intensification, resilience and resistance in agroecosystems in southern Argentina based on remotely sensed data	LANDSCAPE ECOLOGY
14	Maier, HR; Lence, BJ; Tolson, BA; Foschi, R	2001	First-order reliability method for estimating reliability, vulnerability, and resilience	WATER RESOURCES RESEARCH
15	Perez-Espana, H; Arreguin-Sanchez, F	2001	An inverse relationship between stability and maturity in models of aquatic ecosystems	ECOLOGICAL MODELLING
16	Merabtene, T; Kawamura, A; Jinno, K; Olsson, J	2002	Risk assessment for optimal drought management of an integrated water resources system using a genetic algorithm	HYDROLOGICAL PROCESSES
17	Kristensen, NP; Gabric, A; Braddock, R; Cropp, R	2003	Is maximizing resilience compatible with established ecological goal functions?	ECOLOGICAL MODELLING
18	Chang, SE; Shinozuka, M	2004	Measuring improvements in the disaster resilience of communities	EARTHQUAKE SPECTRA
19	El-Baroudy, I; Simonovic, SP	2004	Fuzzy criteria for the evaluation of water resource systems performance	WATER RESOURCES RESEARCH

20A, 20B	Prasad, TD; Park, NS	2004	Multiobjective genetic algorithms for design of water distribution networks	JOURNAL OF WATER RESOURCES PLANNING AND MANAGEMENT
21	Peterson, GD	2006	Estimating resilience across landscapes	CONSERVATION ECOLOGY
22	Mondal, MS; Wasimi, SA	2007	Evaluation of risk-related performance in water management for the Ganges Delta of Bangladesh	JOURNAL OF WATER RESOURCES PLANNING AND MANAGEMENT
23A, 23B	Jain, SK	2009	Statistical performance indices for a hydropower reservoir	HYDROLOGY RESEARCH
24	Petchey, OL; Gaston, KJ	2009	Effects on ecosystem resilience of biodiversity, extinctions, and the structure of regional species pools	THEORETICAL ECOLOGY
25	Reed, DA; Kapur, KC; Christie, RD	2009	Methodology for Assessing the Resilience of Networked Infrastructure	IEEE SYSTEMS JOURNAL
26A, 26B	Wang, DW; Ip, WH	2009	Evaluation and Analysis of Logistic Network Resilience With Application to Aircraft Servicing	IEEE SYSTEMS JOURNAL
27	Whitson, JC; Ramirez-Marquez, JE	2009	Resiliency as a component importance measure in network reliability	RELIABILITY ENGINEERING & SYSTEM SAFETY
28	Dolling, OR; Varas, EA	2010	Decision support model for operation of multi-purpose water resources systems	JOURNAL OF HYDRAULIC RESEARCH
29	Cox, A; Prager, F; Rose, A	2011	Transportation security and the role of resilience: A foundation for operational metrics	TRANSPORT POLICY
30A, 30B	Lesnoff, M; Corniaux, C; Hiernaux, P	2012	Sensitivity analysis of the recovery dynamics of a cattle population following drought in the Sahel region	ECOLOGICAL MODELLING

31A, 31B	Roe, E; Schulman, PR	2012	Toward a Comparative Framework for Measuring Resilience in Critical Infrastructure Systems	JOURNAL OF COMPARATIVE POLICY ANALYSIS
32	Mumby, PJ; Wolff, NH; Bozec, YM; Chollett, I; Halloran, P	2013	Operationalizing the Resilience of Coral Reefs in an Era of Climate Change	CONSERVATION LETTERS
33	Duveneck, MJ; Scheller, RM	2016	Measuring and managing resistance and resilience under climate change in northern Great Lake forests (USA)	LANDSCAPE ECOLOGY
34	Bakhshipour, AE; Dittmer, U; Haghighi, A; Nowak, W	2019	Hybrid green-blue-gray decentralized urban drainage systems design, a simulation-optimization framework	JOURNAL OF ENVIRONMENTAL MANAGEMENT
35	Hassan, D; Burian, SJ; Bano, R; Ahmed, W; Arfan, M; Rais, MN; Rafique, A; Ansari, K	2019	An Assessment of the Pakistan Water Apportionment Accord of 1991	RESOURCES
36	Min, O; Chuang, L; Min, X	2019	Value of resilience-based solutions on critical infrastructure protection: Comparing with robustness-based solutions	RELIABILITY ENGINEERING & SYSTEM SAFETY
37	Leandro, J; Chen, KF; Wood, RR; Ludwig, R	2020	A scalable flood-resilience-index for measuring climate change adaptation: Munich city	WATER RESEARCH
38	Salomon, J; Broggi, M; Kruse, S; Weber, S; Beer, M	2020	Resilience Decision-Making for Complex Systems	JOURNAL OF RISK AND UNCERTAINTY IN ENGINEERING SYSTEMS PART B-MECHANICAL ENGINEERING
39	Sharma, P; Chen, ZQ	2020	Probabilistic Resilience	JOURNAL OF RISK AND

			Measurement for Rural Electric Distribution System Affected by Hurricane Events	UNCERTAINTY IN ENGINEERING SYSTEMS PART A-CIVIL ENGINEERING
40	Verol, AP; Lourenco, IB; Fraga, JPR; Battemarco, BP; Merlo, ML; de Magalhaes, PC; Miguez, MG	2020	River Restoration Integrated with Sustainable Urban Water Management for Resilient Cities	SUSTAINABILITY
41	Wang, Y; Taylor, JE; Garvin, MJ	2020	Measuring Resilience of Human-Spatial Systems to Disasters: Framework Combining Spatial-Network Analysis and Fisher Information	JOURNAL OF MANAGEMENT IN ENGINEERING