Table S1. List of papers, their distribution per region or country, and their content types

Europe: 13
Europe and China: 1
Europe and Southeast Asia:1

No.	Authors	Year of Publication	Title	Region/Country	Remarks	Content type
1	E. Gonzalez-Flo, et al.	2023	Nature based-solutions for water reuse: 20 years of performance evaluation of a full-scale constructed wetland system	Europe	Spain	3
2	E. O'Donnell, et al.	2020	The blue-green path to urban flood resilience	Europe	UK	2
3	F. Well and F. Ludwig	2020	Blue–green architecture: A case study analysis considering the synergetic effects of water and vegetation	Europe	USA and Germany, Italy	3
4	G. Khurelbaatar, et al.	2021	Management of Urban Stormwater at Block-Level (MUST-B): A New Approach for Potential Analysis of Decentralized Stormwater Management Systems	Europe	Germany	2
5	J. Knappe, et al.	2023	GR2L: A robust dual-layer green roof water balance model to assess multifunctionality aspects under climate variability	Europe	Germany	2
6	K. Krauze and I. Wagner	2019	From classical water-ecosystem theories to nature-based solutions - Contextualizing nature-based solutions for sustainable city	Europe	European cities	1
7	M. Richter and W. Dickhaut	2023	Long-Term Performance of Blue-Green Roof Systems—Results of a Building-Scale Monitoring Study in Hamburg, Germany	Europe	Germany	3
8	P. O. Sagrelius, et al.	2023	Sustainability performance of bioretention systems with various designs	Europe	Sweden	3
9	P. Puchol-Salort, et al.	2022	Water neutrality framework for systemic design of new urban developments	Europe	UK	2
10	R. P. H. Snep, et al.	2020	Nature Based Solutions for Urban Resilience: A Distinction Between No-Tech, Low-Tech and High-Tech Solutions	Europe	The Netherlands	5
11	S. M. Lerer, et al.	2022	Constructing an inventory for fast screening of hydraulic and hydrologic performance of stormwater control measures	Europe	Denmark	2
12	S. Strbac, et al.	2023	Green Infrastructure Designed through Nature-Based Solutions for Sustainable Urban Development	Europe	Serbia	3
13	Y. Qiu, et al.	2023	Spatio-temporal rainfall variability and its impacts on the hydrological response of nature-based solutions	Europe	France	2
14	C. Lashford, et al.	2019	SuDS & Sponge Cities: A Comparative Analysis of the Implementation of Pluvial Flood Management in the UK and China	Europe and China	UK and China	1
15	M. Cui, et al.	2021	Tale of Two Cities: How Nature-Based Solutions Help Create Adaptive and Resilient Urban Water Management Practices in Singapore and Lisbon	Europe and Southeast Asia	Portugal and Singapore	3

China: 29

No.	Authors	Year of Publication	Title	Region/Country	Remarks	Content type
1	C. Li, et al.	2018	Evaluating the Hydrologic Performance of Low Impact Development Scenarios in a Micro Urban Catchment	China		2

No.	Authors	Year of Publication	Title	Region/Country	Remarks	Content type
2	C. Liang, et al.	2020	An integrated framework to select resilient and sustainable sponge city design schemes for robust decision making	China		2
3	C. Mei, et al.	2018	Integrated assessments of green infrastructure for flood mitigation to support robust decision-making for sponge city construction in an urbanized watershed	China		2
4	C. Wang, et al.	2019	Flood risk management in sponge cities: The role of integrated simulation and 3D visualization	China		2
5	C. Zevenbergen, et al.	2018	Transitioning to Sponge Cities: Challenges and Opportunities to Address Urban Water Problems in China	China		1
6	D. Jiang, et al.	2022	Ecological Evaluation of Sponge City Landscape Design Based on Aquatic Plants Application	China		2
7	D. Yin, et al.	2022	Sponge City Practices in China: From Pilot Exploration to Systemic Demonstration	China		1
8	J. Bu, et al.	2020	A method for determining reasonable water area ratio based on flood risk and cost-effectiveness in Rainy City	China		2
9	J. Gao, et al.	2021	A Distribution Optimization Method of Typical LID Facilities for Sponge City Construction	China		2
10	J. Song, et al.	2020	Evaluation of stormwater runoff quantity integral management via sponge city construction: A pilot case study of Jinan	China		3
11	J. Xia, et al.	2017	Opportunities and challenges of the Sponge City construction related to urban water issues in China	China		1
12	J. Zhou, et al.	2023	A review of urban rainwater harvesting in China	China		1
13	J. Zhou, et al.	2019	Sponge city construction in China: policy and implementation experiences	China		4
14	L. He, et al.	2022	Runoff control simulation and comprehensive benefit evaluation of low-impact development strategies in a typical cold climate area	China		2
15	L. Lu, et al.	2023	The development of roadside green swales in the Chinese Sponge City Program: Challenges and opportunities	China		1
16	N. Ren, et al.	2017	Upgrading to urban water system 3.0 through sponge city construction	China		2
17	Q. Li, et al.	2022	Comparison of Runoff Control Performance by Five Permeable Pavement Systems in Zhenjiang, Yangtze River Delta of China	China		3
18	Q. Li, et al.	2019	Comprehensive performance evaluation of LID practices for the sponge city construction: A case study in Guangxi, China	China		2
19	Q. Zhou, et al.	2021	Conceptual planning approach of low impact developments for combined water quality-quantity control at an urban scale: A case study in Southern China	China		2
20	S. Chen, et al.	2021	Revisiting China's Sponge City Planning Approach: Lessons From a Case Study on Qinhuai District, Nanjing	China		2
21	S. Shang, et al.	2023	Exploration of sponge city construction in China from the perspective of typical cases	China		1
22	S. Yang, et al.	2021	Sustainable Urban Water Management in China: A Case Study from Guangzhou and Kunming	China		3
23	T. Wen, et al.	2019	STUDY ON SPONGE CAMPUS PLANNING AND CONSTRUCTION IN HILLY AREAS UNDER THE CONCEPT OF SPONGE CITY-A CASE STUDY HUNAN CITY UNIVERSITY	China		2
24	W. Xu, et al.	2022	A Water Resilience Evaluation Model for Urban Cities	China		2
25	W. Yang, et al.	2022	Low impact development practices mitigate urban flooding and non-point pollution under climate change	China		2
26	X. Zha, et al.	2021	A bibliometric analysis of the research on Sponge City: Current situation and future development direction	China		1
27	Y. Gong, et al.	2019	Effectiveness Analysis of Systematic Combined Sewer Overflow Control Schemes in the Sponge City Pilot Area of Beijing	China		2

No.	Authors	Year of Publication	Title	Region/Country	Remarks	Content type
28	Y. Jiang, et al.	2022	Systematic Application of Sponge City Facilities at Community Scale Based on SWMM	China		2
29	Y. Zhu, et al.	2023	Spatial layout optimization of green infrastructure based on life-cycle multi-objective optimization algorithm and SWMM model	China		2

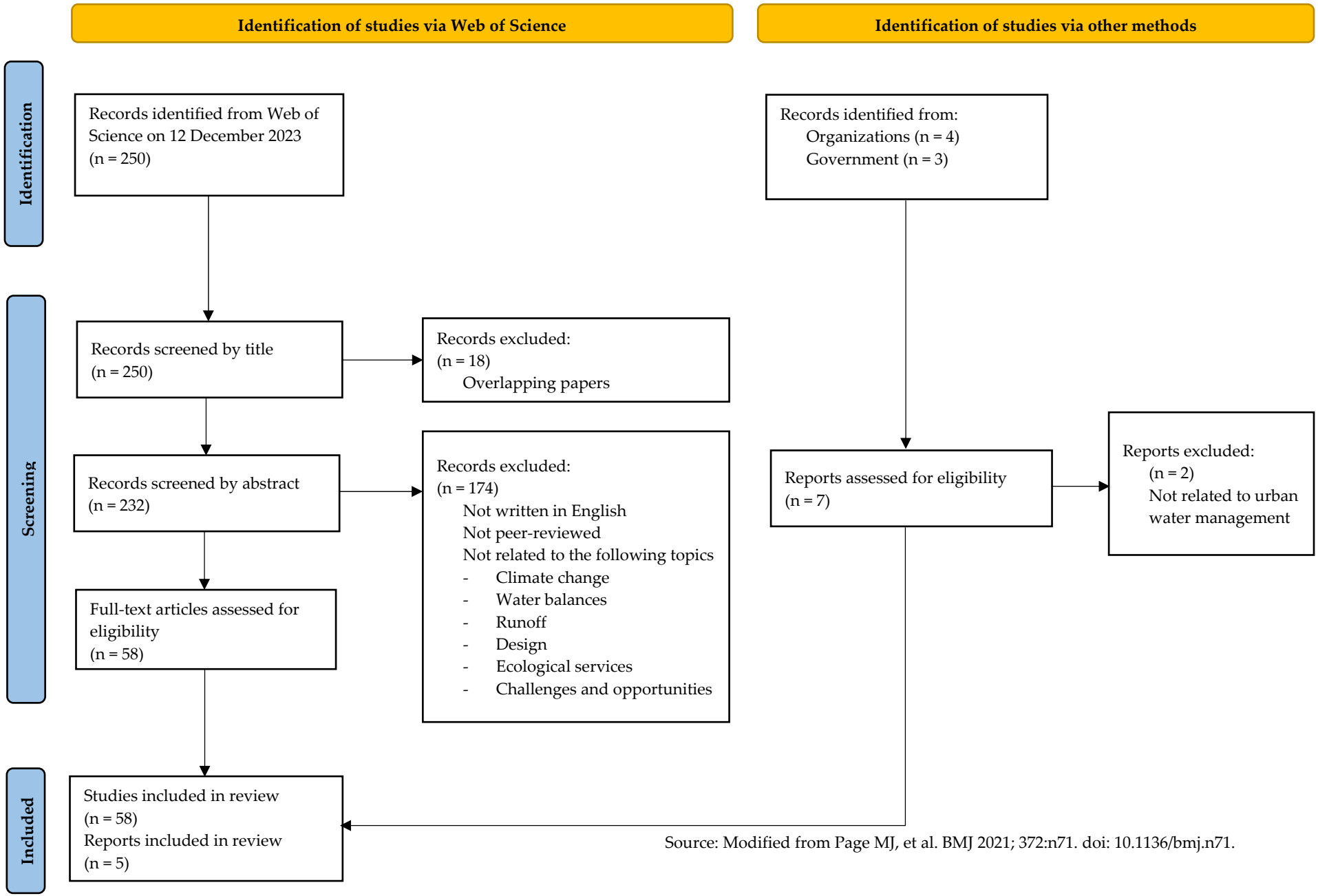
Southeast Asia: 3
Viet Nam: 1

No.	Authors	Year of Publication	Title	Region/Country	Remarks	Content type
1	A. M. Lechner, et al.	2020	Challenges and considerations of applying nature-based solutions in low- and middle-income countries in Southeast and East Asia	SEA		1
2	E. Wolff, et al.	2023	Nature-based solutions in informal settlements: A systematic review of projects in Southeast Asian and Pacific countries	SEA		1
3	P. Hamel and L. Tan	2022	Blue–Green Infrastructure for Flood and Water Quality Management in Southeast Asia: Evidence and Knowledge Gaps	SEA		1
4	L. Scheiber, et al.	2023	Low-regret climate change adaptation in coastal megacities – evaluating large-scale flood protection and small-scale rainwater detention measures for Ho Chi Minh City, Vietnam	Viet Nam		2

Global: 10

No.	Authors	Year of Publication	Title	Region	Remarks	Content type
1	A. Tsatsou, et al.	2023	Nature-based solutions for circular urban water systems: A scoping literature review and a proposal for urban design and planning	Global	Various regions	1
2	B. Adem Esmail and L. Suleiman	2020	Analyzing Evidence of Sustainable Urban Water Management Systems: A Review through the Lenses of Sociotechnical Transitions	Global	Various regions	1
3	C. Feng, et al.	2021	Prospects of eco-hydrological model for sponge city construction	Global	Various regions	1
4	H. J. Baker, et al.	2021	How robust is the evidence for beneficial hydrological effects of urban tree planting?	Global	Various regions	1
5	J. Bąk and M. Barjenbruch	2022	Benefits, Inconveniences, and Facilities of the Application of Rain Gardens in Urban Spaces from the Perspective of Climate Change—A Review	Global	Various regions	1
6	J.-L. Bertrand-Krajewski	2021	Integrated urban stormwater management: Evolution and multidisciplinary perspective	Global	Various regions	1
7	L. Liu and M. B. Jensen	2018	Green infrastructure for sustainable urban water management: Practices of five forerunner cities	Global	Singapore, Germany, Australia, USA and China	3
8	Y. Chen and J. Gaspari	2023	Exploring an Integrated System for Urban Stormwater Management: A Systematic Literature Review of Solutions at Building and District Scales	Global	Various regions	1
9	Z. Li, et al.	2018	A Systematic Literature Mining of Sponge City: Trends, Foci and Challenges Standing Ahead	Global	Various regions	1
10	Z. Wang, et al.	2021	How do urban rainfall-runoff pollution control technologies develop in China? A systematic review based on bibliometric analysis and literature summary	Global	Various regions	1

Table S2. PRISMA 2020 flow diagram for the systematic review



Source: Modified from Page MJ, et al. BMJ 2021; 372:n71. doi: 10.1136/bmj.n71.