Table 1: Description of Studies

Study	Year of Publication	Setting	Focus of Pollution	Key Findings
Tan et al	2019	South China	Air	Co-existence of organophosphate di-and tri-esters
Yu et al	2019	230 Cities in China	Pollution	Characteristics of cadres on environmental pollution
Zhang et al	2019	yellow Sea and east China Sea	Water	Microplastics in offshore sediment
Yang et al	2019	Yangtze River Delta cities	Air	China's air pollution control policy
Peng et al	2019	Lanzhou	Air	Air pollution and meteorological factors on measles cases
Zhao et al	2019	China	Air	Household consumption and air pollution-related deaths
Guo et al	2019	20 major cities in China	Air	air pollution stimulate electric vehicle sales
Liu et al	2019	Beijing-Tianjin-Hebei region	Air	Mitigation pathways of air pollution from residential emissions
Zheng et al	2019	Urban China	Air	Air pollution and happiness on social media
Yu et al	2019	Guangzhou	Air	Air pollution control measures
Li et al	2019	Sheyang	Air	Planetary boundary layer structure on the formation and evolution of air-pollution
Li et al	2019	Tibetan Plateau	Air	Atmospheric pollution
Chen et al	2019	Xinjiang	Water	Heavy metals and perfluorinated compounds in Pollution
Ma et al	2019	Lanzhou	Water	Weather and air pollution on tropospheric ozone
Liao et al	2019	Gansu	Pollution	Health and Economic Loss Assessment of PM2. 5 Pollution
Liu et al	2020	Gansu	Climate	Climate zones and seasonal epidemic
Zhang et al	2020	Liaoning	Water	Association between maternal exposure to PM10 and polydactyly and syndactyly

Yang et al	2020	10 Cities in China	Air	Ambient Air Pollution with Nasopharyngeal Carcinoma Incidence
Li et al	2020	Beijing-Tianjin-Hebei/Yangtze River Delta regions	Air	Particulate pollution days and weather paterns
Fan et al	2020	Pearl River Delta	Water	Distribution, sedimentary record, and persistence of microplastics
He and Li	2020	middle Chinese Loess Plateau	Water	Surface water pollution
Wang and Y. Song	2020	Yangtze River valley	Water	Water pollution control on provincial boundaries
Lin et al	2020	Lake Erhai	Water	Environmental restoration
Li et al	2020	Wuhan	Water	Organophosphate esters and gastrointestinal cancer
Feng et al	2020	Yunnan Province	Air	Coal-burning pollution and Lung Cancer
Wang and G. Zhu	2020	Yancheng City	Water	Bromide in drinking water
Cui et al	2020	Guangzhou	Water	Esophageal Cancer
Liu et al	2020	Shenzhen	Water	Coastal water pollution and human exposure
Shi et al	2020	30 Provinces in China	Water	Water Pollution Emissions on Public Health
Gao et al	2020	Dayuan Village in Guangzhou	Pollution	Pollution in Villages
Wang et al	2020	Beijiang and Pearl River Delta regions	Water	Microplastics in wild freshwater fish
Guo et al	2020	South to North China	Water	Heavy metal pollution patterns in the water
Hou et al	2020	Pearl River Delta region	Air	Air pollution and local emissions
Yang et al	2020	Wuhan	Air	Air pollution on the incidence of hand, foot, and mouth disease
Zhang et al	2020	Guangzhou	Air	Ambient air pollution exposure and gestational diabetes mellitus
Cai et al	2020	Hunan	Water	Footprint-based water security assessment
Qin et al	2020	Guilin	Water	Sulfonamides in surface water and groundwater
Xiao et al	2020	South West China	Water	Large-scale Afforestation on the Regional Water Supply Balance

Yang et al	2020	Taibai Mountain-Western China	Pollution	Ecological Compensation
Qu et al	2020	upper Pearl River Basin	Water	Behavior of metals/metalloids during natural weathering
Liu and D. Mao,	2020	Xiangjiang River, south-central China	Water	Water quality characteristics and ecological compensation
Zhang et al	2020	Dongjiang River basin	Water	Emission estimation and fate modelling
Wen et al	2020	Haihe River basin	Water	Characterizing DOC sources in China
Liu et al	2020	Hulan River basin	Water	Water quality attribution

Table 2: Mixed Methods Appraisal Tool (MMAT) Study Quality Evaluation Schedule

Parameters	Tan et al	Yu et al	Zhang et al	Yang et al	Peng et al	Zhao et al	Guo et al	Liu et al	Zheng et al	Yu et al	Li et al	Li et al	Chen et al	Ma et al	Liao et al	Liu et al	Zhang et al	Yang et al	Li et al	Fan et al	He and Li	Wang and Song
Data sources relevant?	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y
Data analysis process relevant?	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	N	Y	Y	Y	Y	Y	Y
Findings relate to context?	Y	Y	Y	N	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	N	Y	Y	Y
Findings relate to researchers' influence?	N	N	N	N	Y	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N
Clear description of the sampling process of respondents	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	N	Y	Y	Y	Y	Y	Y
Support from funding agencies	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N
	67%	67%	67%	50%	83%	67%	67%	67%	50%	67%	67%	67%	67%	67%	67%	33%	67%	67%	50%	67%	67%	67%

	Li et al	Li et al	Feng et al	Wang and G. Zhu	Cui et al	Liu et al	Shi et al	Gao et al	Wang et al	Guo et al	Hou et al	Yang et al	Zhang et al	Cai et al	Qin et al	Xiao et al	Yang et al	Qu et al	Liu and D. Mao,	Zhang et al	Wen et al	Liu et al
Clear description of the randomization?	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	N	Y	Y	Y	Y	Y	Y	N
Clear description of allocation or concealment?	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	N	Y	Y	N
Complete outcome data?	Y	Y	Y	Y	Y	Y	Y	N	Y	Y	Y	Y	Y	Y	N	Y	Y	N	Y	Y	N	Y
Low withdrawal/drop-out?	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	N	Y
Reason for studying specific organisations	Y	N	Y	N	N	N	N	N	Y	N	N	Y	N	Y	N	Y	N	N	Y	Y	N	Y

The influence of the organisation on the research	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N
Researcher influence in qualitative and mixed methods studies	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N
Support from funding agencies	Y	Y	Y	N	Y	Y	N	Y	Y	N	Y	Y	N	Y	N	N	Y	Y	Y	N	N	Y
Total score (%)	75%	63%	75%	75%	75%	75%	75%	50%	75%	75%	75%	75%	50%	75%	25%	75%	75%	50%	63%	75%	25%	50%