

### Criteria for the search process

- 1) Articles published in peer-reviewed and scientific journals written in English
- 2) Articles reported on NBS in terms of hydro-meteorological risk reduction (Table 2)
- 3) Articles published from 2007 to 2019

Sourcing articles from Scopus  
(n=1608)

Sourcing articles from Web of Science  
(n=1431)

Combining articles from both databases  
(n=3089)

Identifying and removing duplicated articles  
(n=1650)

### Criteria for the selection process

- 1) To assess the state-of-the-art in research concerning both small and large scale NBS for hydro-meteorological risk reduction,
- 2) To review the use of techniques, methods and tools for planning, selecting, evaluating and implementing NBS for hydro-meteorological risk reduction,
- 3) To review the socio-economic influence in the implementation of NBS for hydro-meteorological risk reduction as well as their co-benefits , effectiveness and costs

Screening articles based on titles and keywords  
(n=1439)

Articles excluded after screening  
(n=1006)

*Reason: no relevant words of search terms*

Evaluating articles based on reading abstracts  
(n=433)

Articles excluded after evaluation  
(n=228)

*Reason: focus more on other problems than risk*

Articles which had full review  
(n=205)

Articles excluded after full review  
(n=59)

*Reason: do not meet the objectives of the review*

Articles included in the review  
(n=146)

**Identify knowledge gaps and propose future research prospects**