

Literature search:

Web of Science (February, 2019)

k = 4899

Synthesis studies:

1. Geider and La Roche (2002)
2. Flynn et al. (2010)
3. Persson et al. (2010)
4. Hillebrand et al. (2013)
5. Yvon Durocher et al. (2015)
6. Thrane et al. (2016)
7. Moreno and Martiny (2018)
8. Villar Argaiz et al. (2018)

k = 306

Records included based on title and abstract:

k = 948

Papers after the first round of full text search:

k = 196

Papers used for determining stoichiometry sensitivity factors and response ratio:

k = 104

Papers excluded:

- duplicates
- not meeting inclusion criteria
- not providing necessary data
- same data reported over multiple studies
- freshwater species
- not under laboratory condition
- no error bars

k = 5095

Other sources:

papers not included in literature search

k = 6