Results

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#Results ##Review methods ###Flow diagram

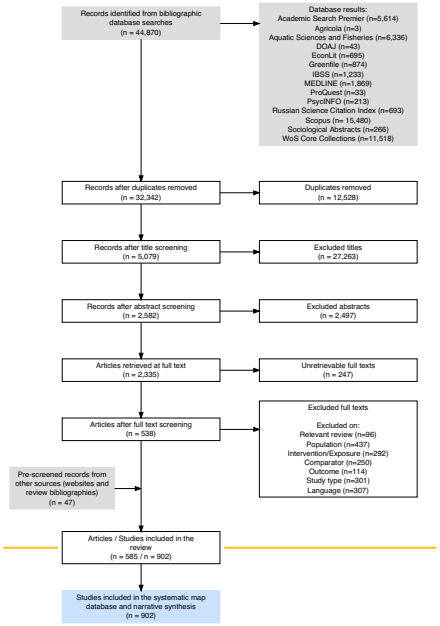


Figure 1: ROSES flow chart for the systematic map, showing the number of records retained at each stage of the review process. Produced using the R package 'ROSES_flowchart' (Haddaway 2020).

##Research interest ###Publications over time

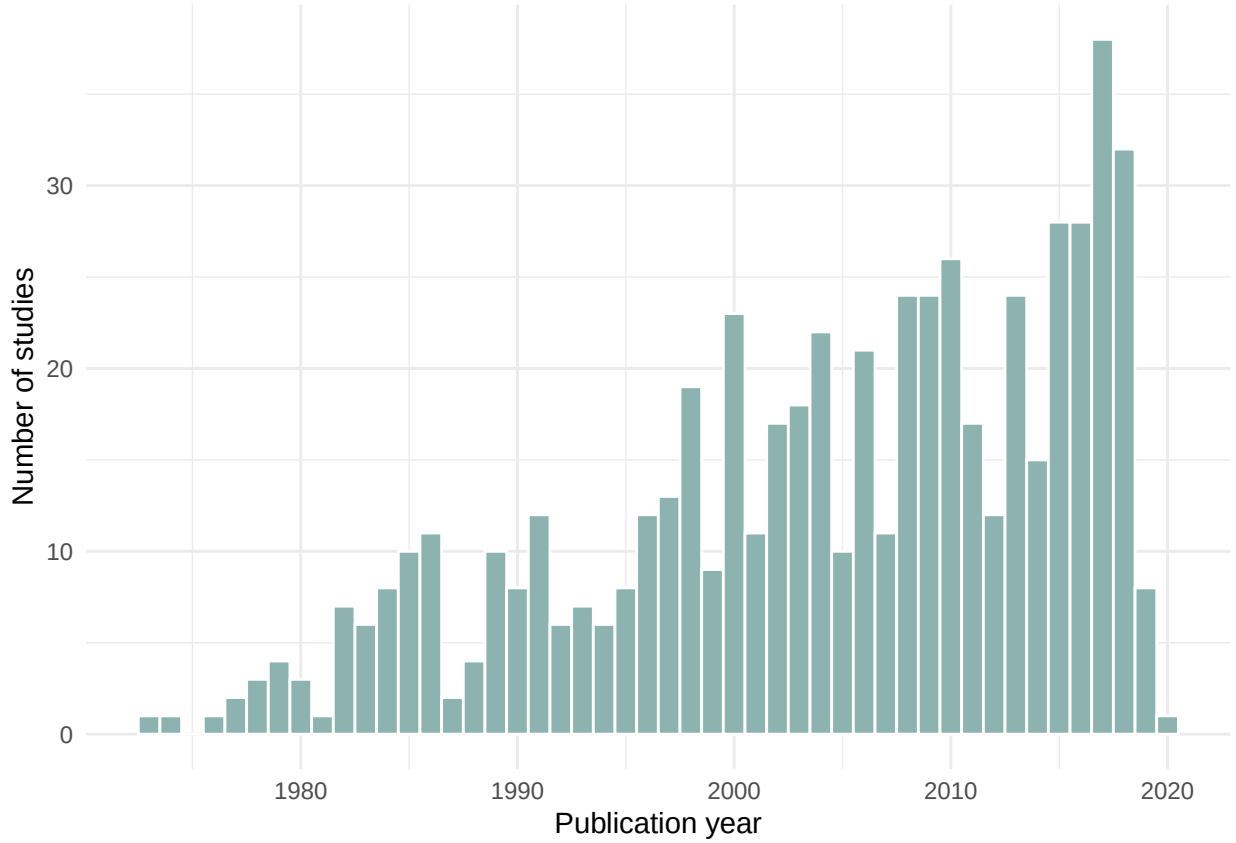


Figure 2: Plot showing the final number of articles included in the systematic map by publication year.

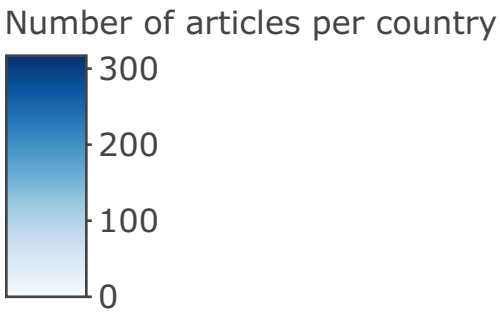
###Evidence atlas [Insert screenshots here]

###Research across mines [mines_articles]

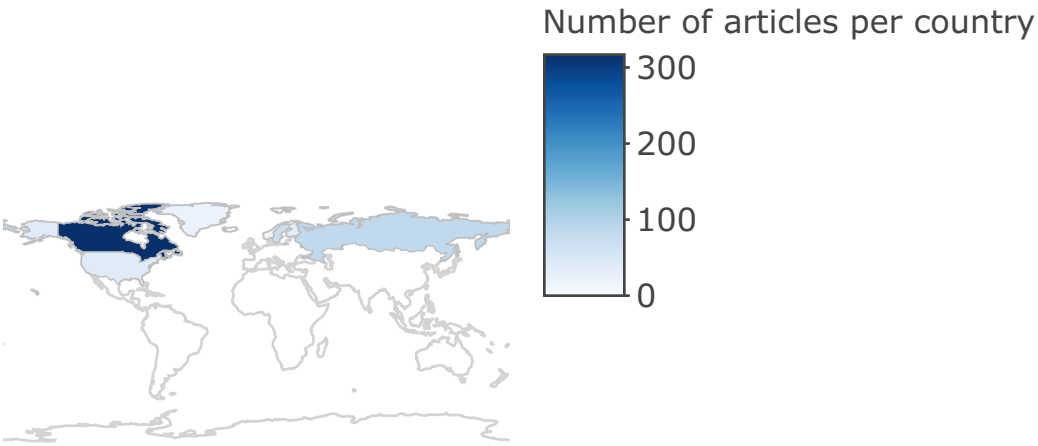
###Study country

```
## Loading required package: ggplot2

##
## Attaching package: 'plotly'

## The following object is masked from 'package:ggplot2':
##
##     last_plot

## The following object is masked from 'package:stats':
##
##     filter
```

```
## The following object is masked from 'package:graphics':
##
##     layout
```

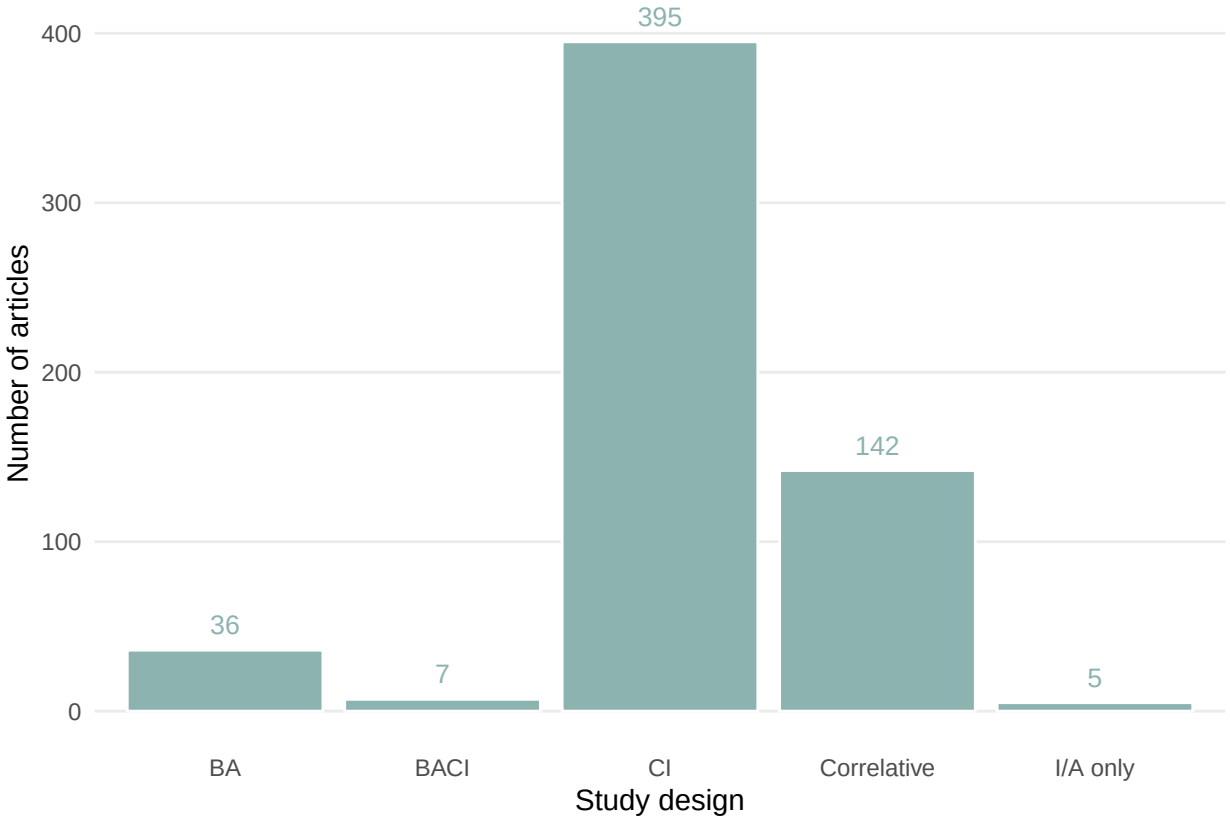



```
## pdf
##   2
```



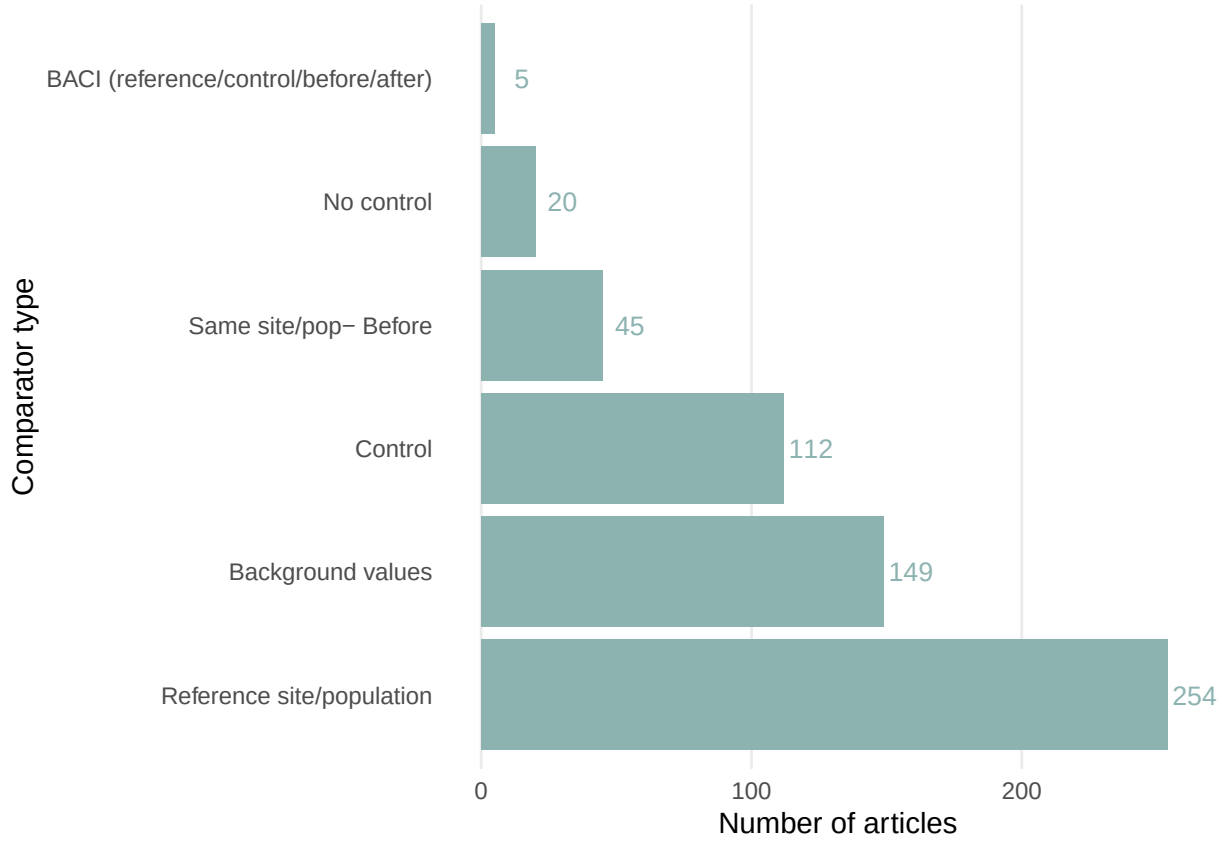
###Study designs

```
## pdf
##   2
```



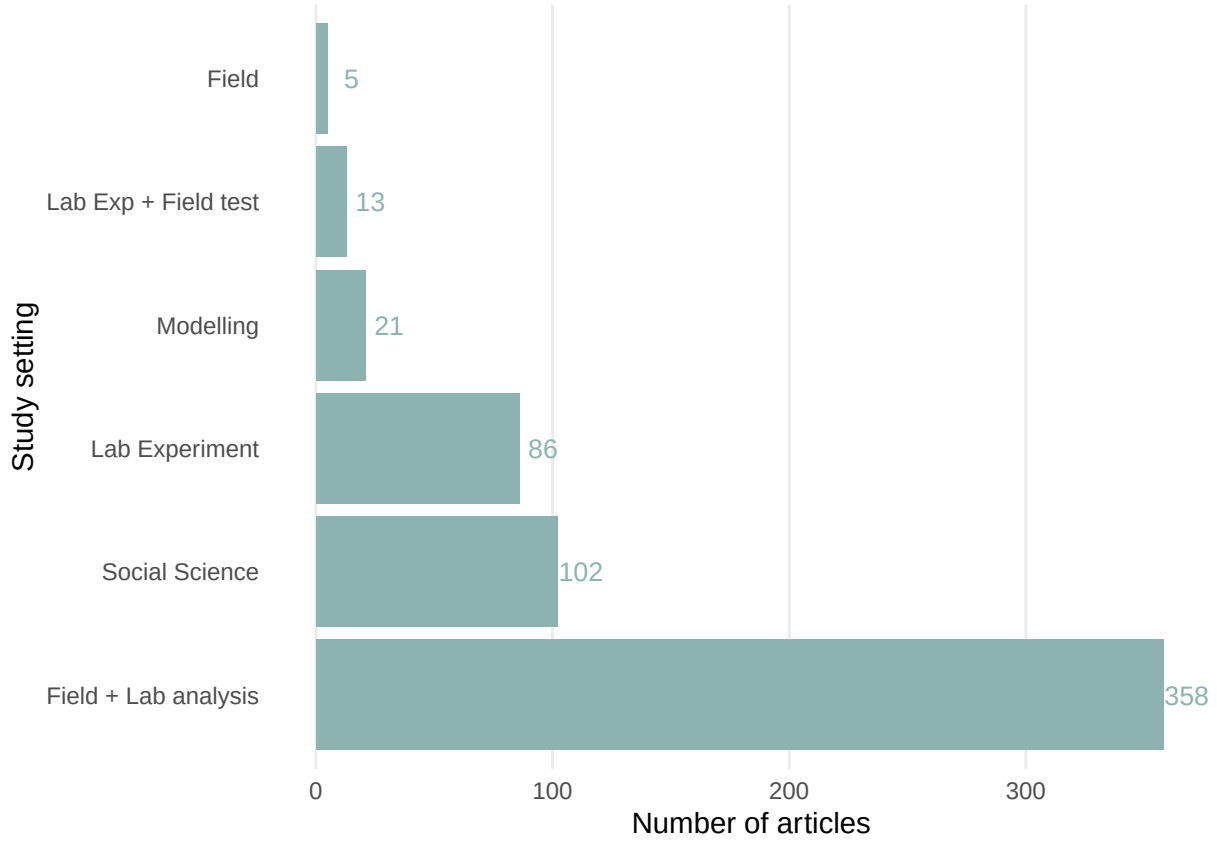
###Comparators

```
## pdf
##   2
```



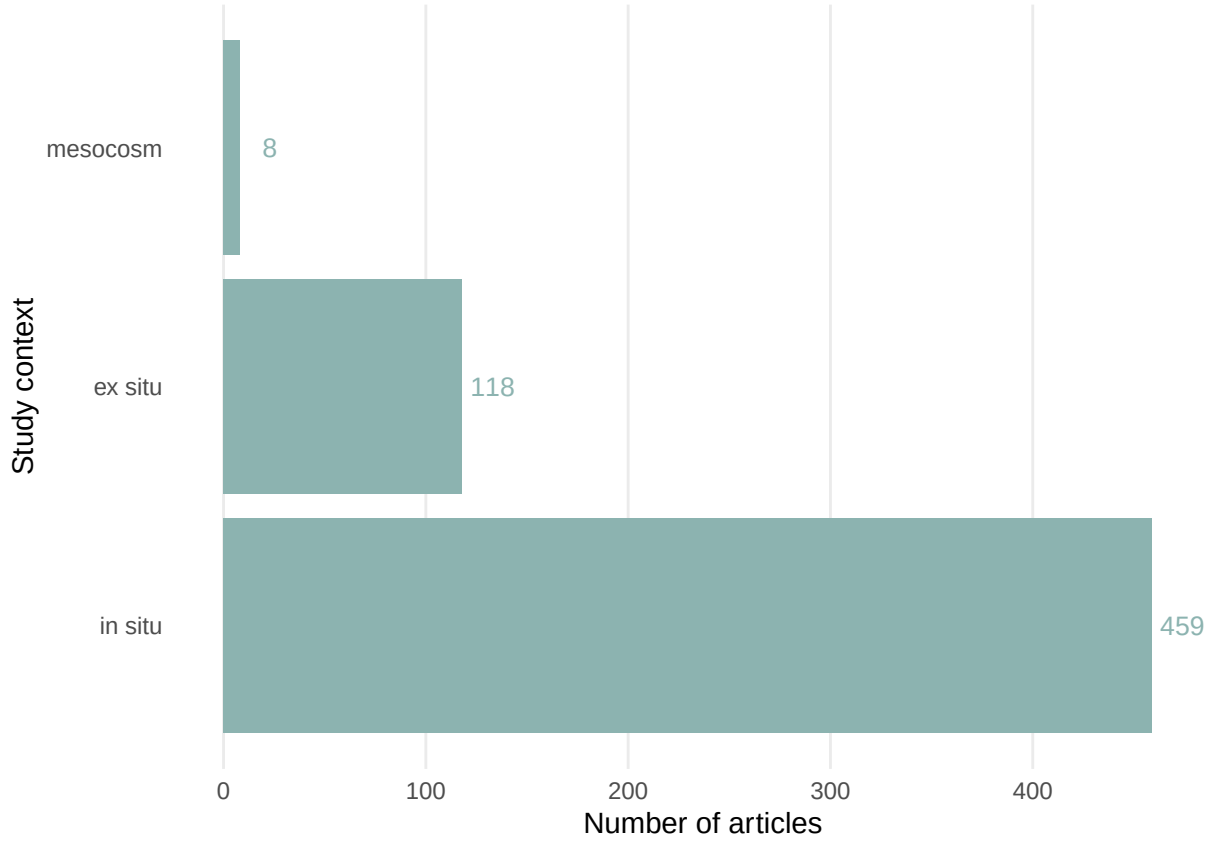
###Settings

```
## pdf
##   2
```



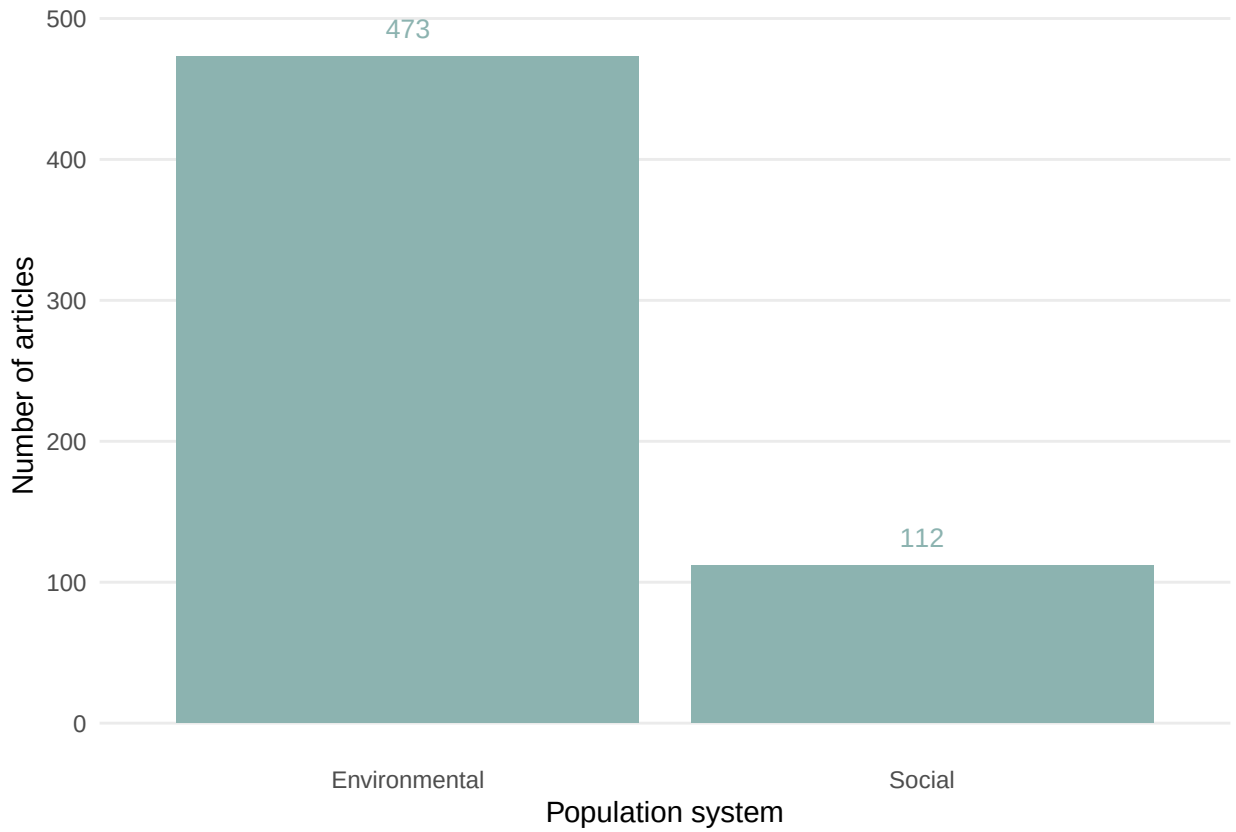
###Contexts

```
## pdf
##   2
```



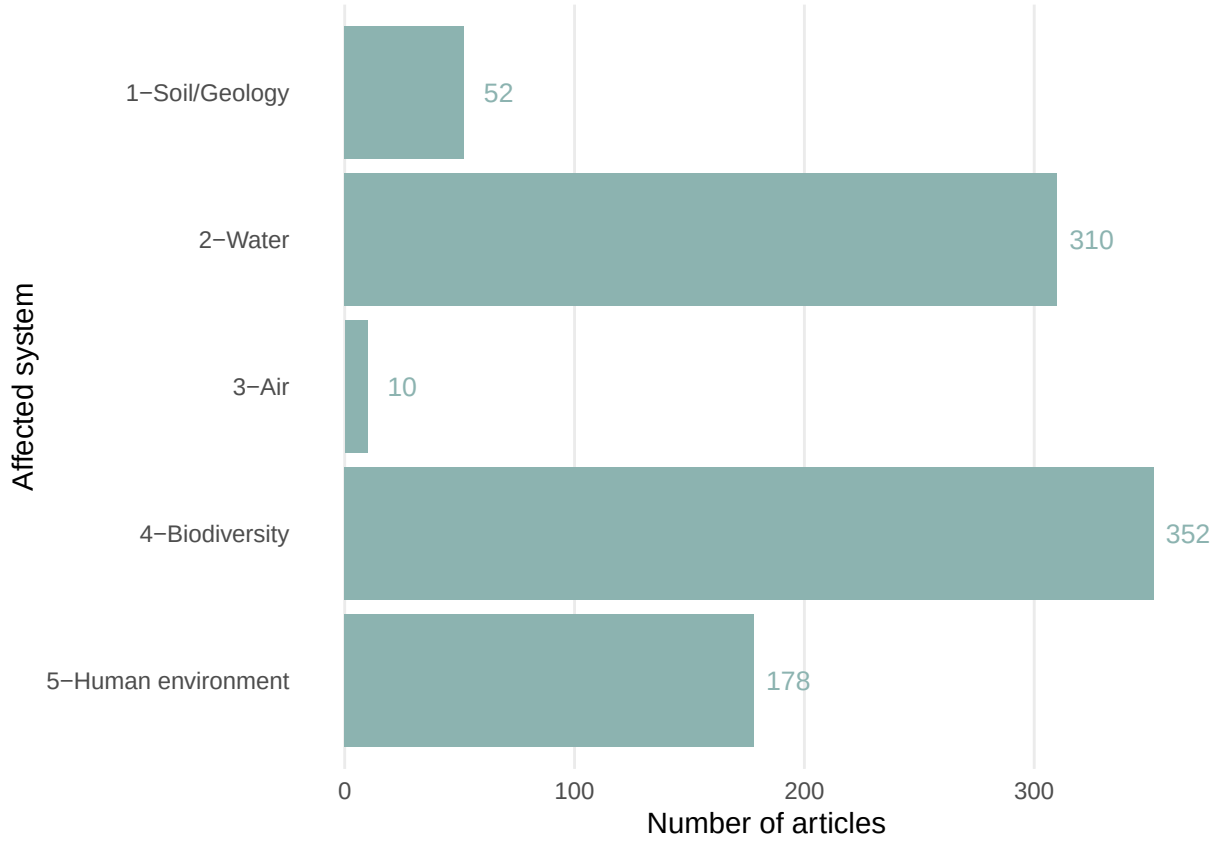
###Population systems

```
## pdf
##   2
```



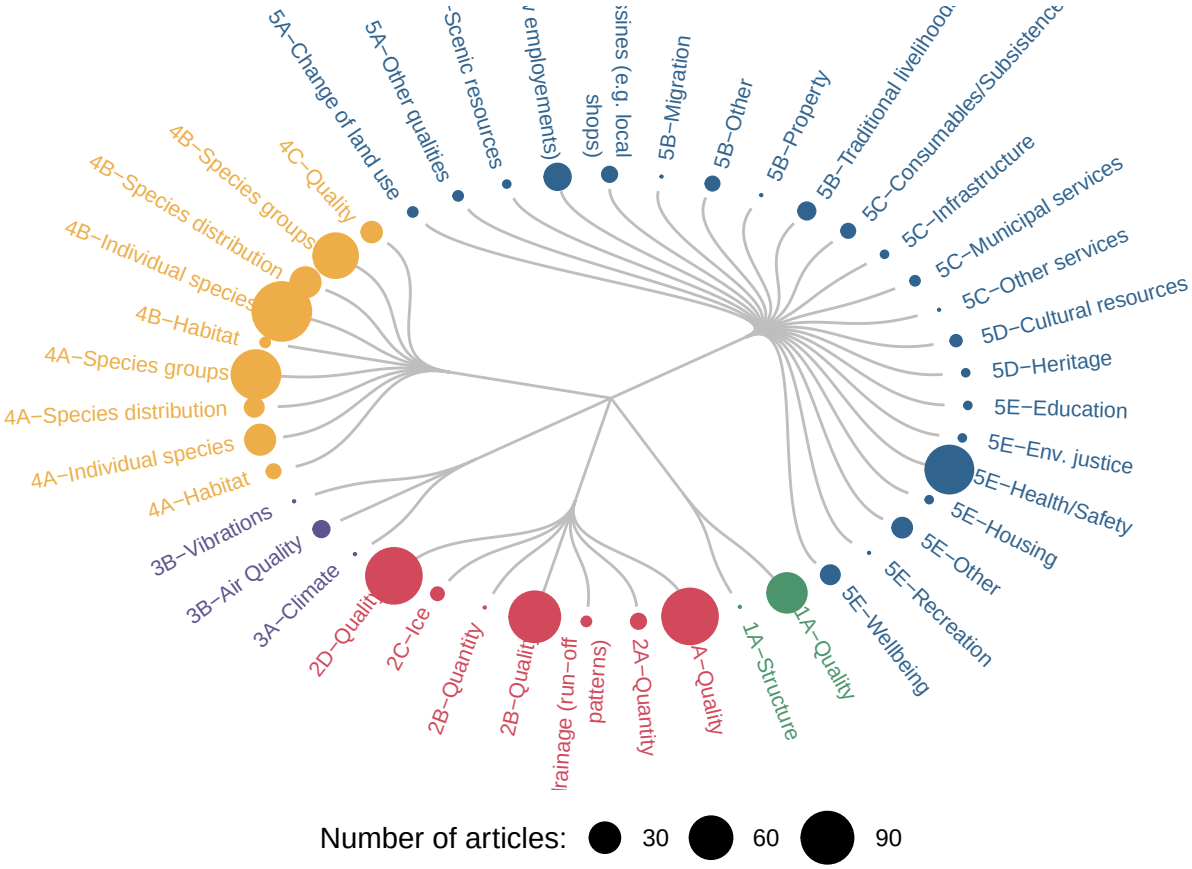
###Affected systems, components, factors

```
## pdf
##   2
```



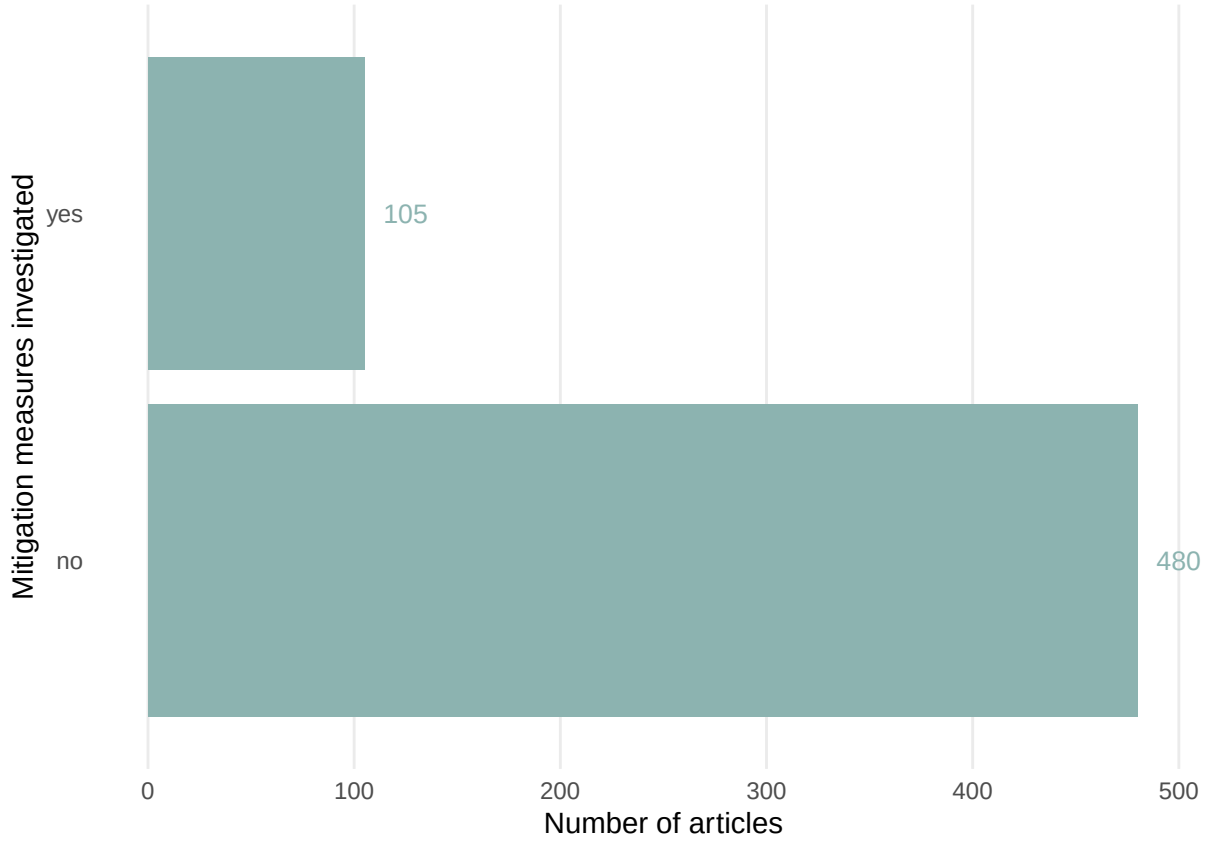

```
##
## Attaching package: 'igraph'

## The following object is masked from 'package:plotly':
##
##     groups

## The following objects are masked from 'package:stats':
##
##     decompose, spectrum

## The following object is masked from 'package:base':
##
##     union

## -- Attaching packages --------------------------------------- tidyverse 1.3.0 --

## v tibble  3.1.0     v dplyr   1.0.5
## v tidyr   1.1.3     v stringr 1.4.0
## v readr   1.4.0     v forcats 0.5.1
## v purrr   0.3.4
```

```
## -- Conflicts ---------------------------------------- tidyverse_conflicts() --
## x dplyr::as_data_frame() masks tibble::as_data_frame(), igraph::as_data_frame()
## x purrr::compose()       masks igraph::compose()
## x tidyr::crossing()      masks igraph::crossing()
## x tidyr::extract()       masks magrittr::extract()
## x dplyr::filter()        masks plotly::filter(), stats::filter()
## x dplyr::groups()        masks igraph::groups(), plotly::groups()
## x dplyr::lag()           masks stats::lag()
## x purrr::set_names()     masks magrittr::set_names()
## x purrr::simplify()      masks igraph::simplify()
```



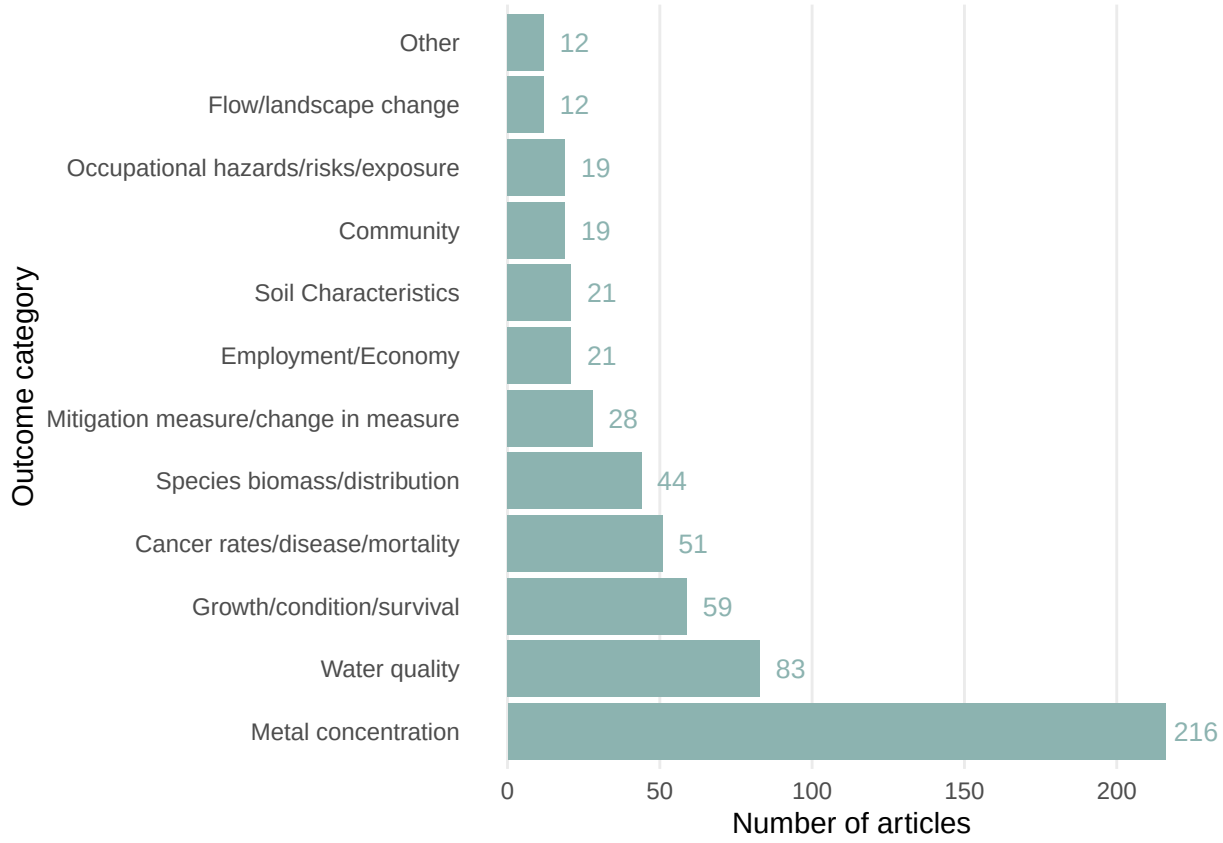
###Mitigation tested

```
## pdf
##   2
```



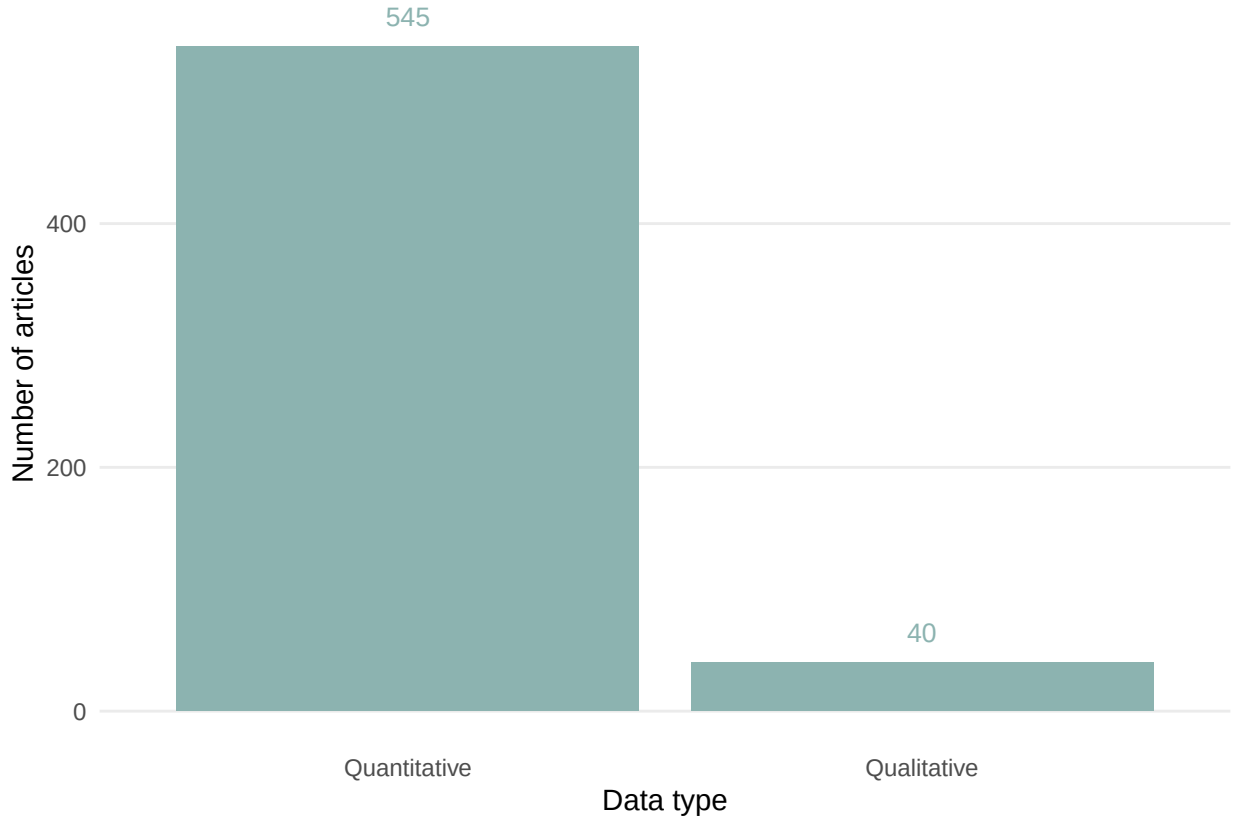
###Outcome category

```
## pdf
##   2
```



###Data type

```
## pdf
##   2
```



#Cross Tabs ####Population system -vs- data type

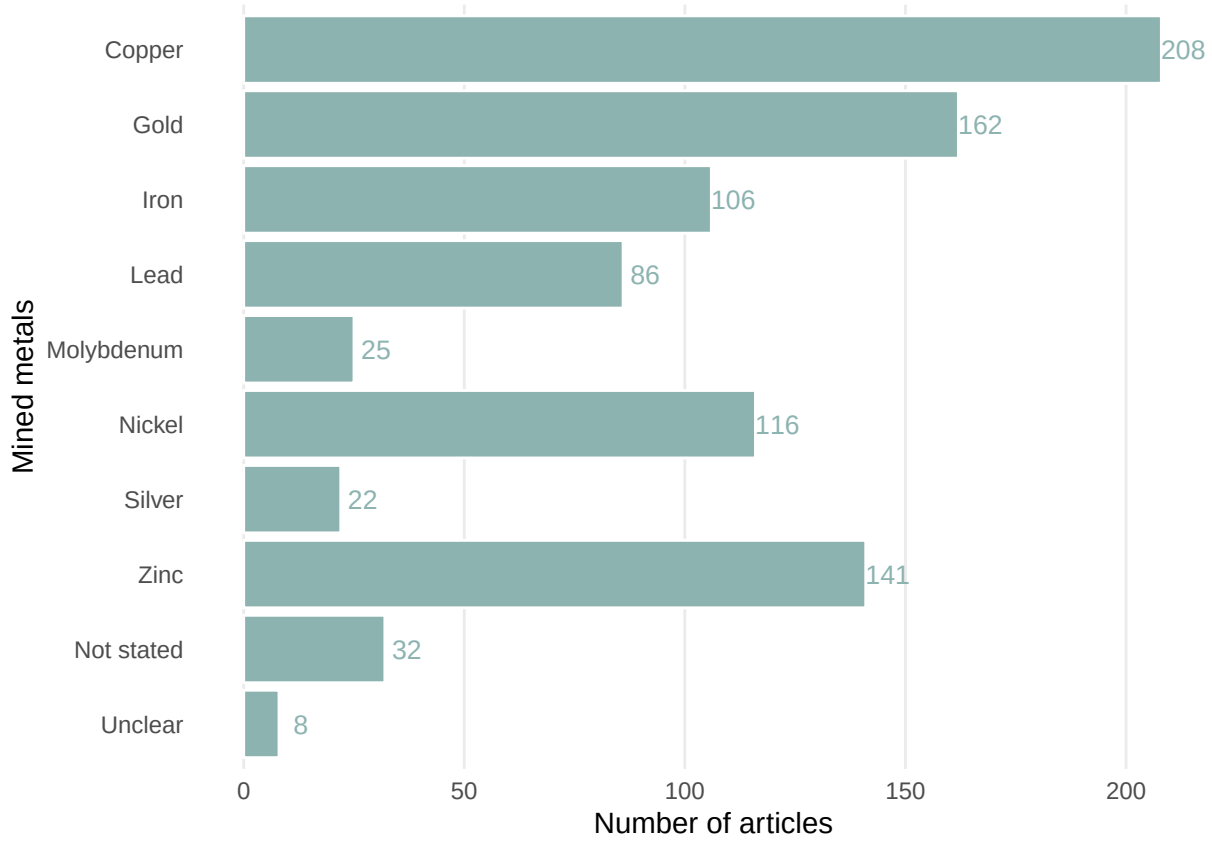
##Mines ###Unique mines

```
## Warning in `[.tbl_df`(mines, !is.na(as.numeric(as.character(mines$latitude))), :
## NAs introduced by coercion
```

```
## Warning in `[.tbl_df`(mines, is.na(as.numeric(as.character(mines$latitude))), :
## NAs introduced by coercion
```

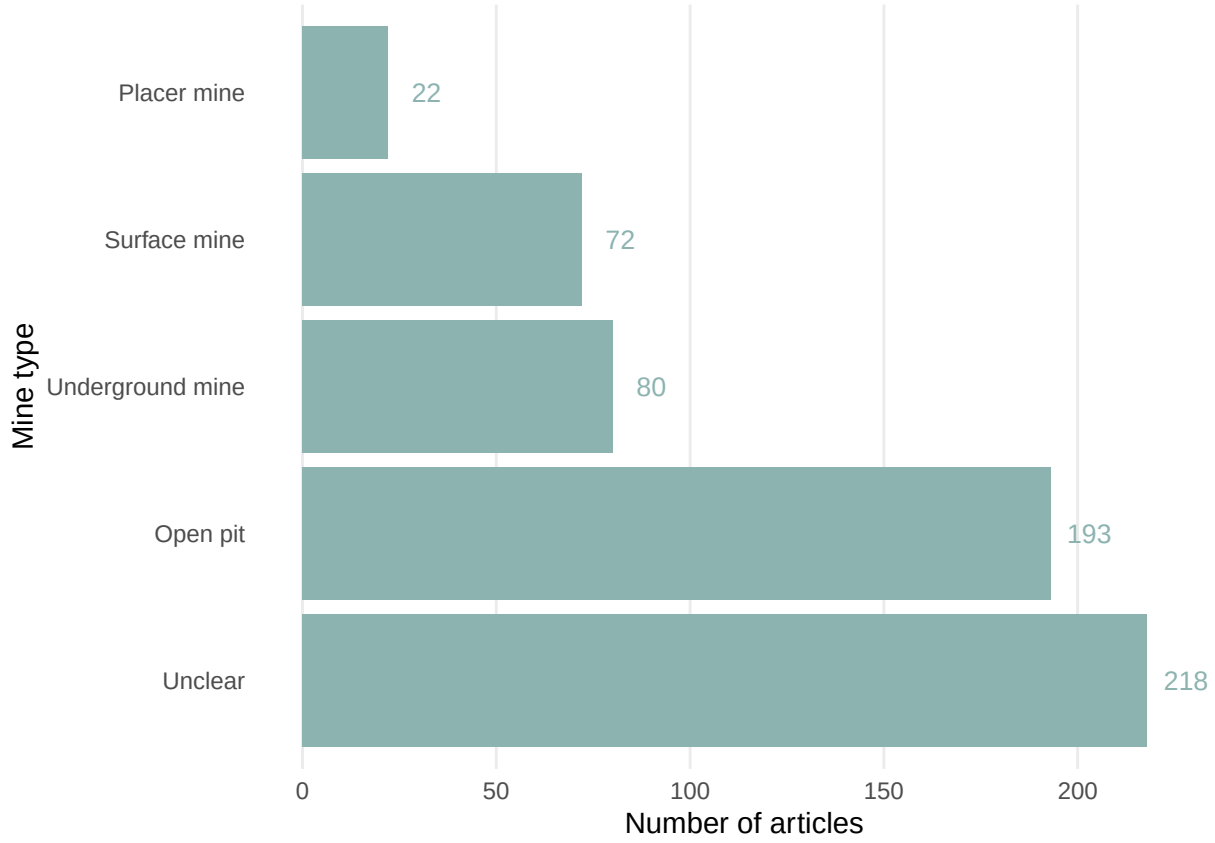
###Metals mined

```
## pdf
##   2
```



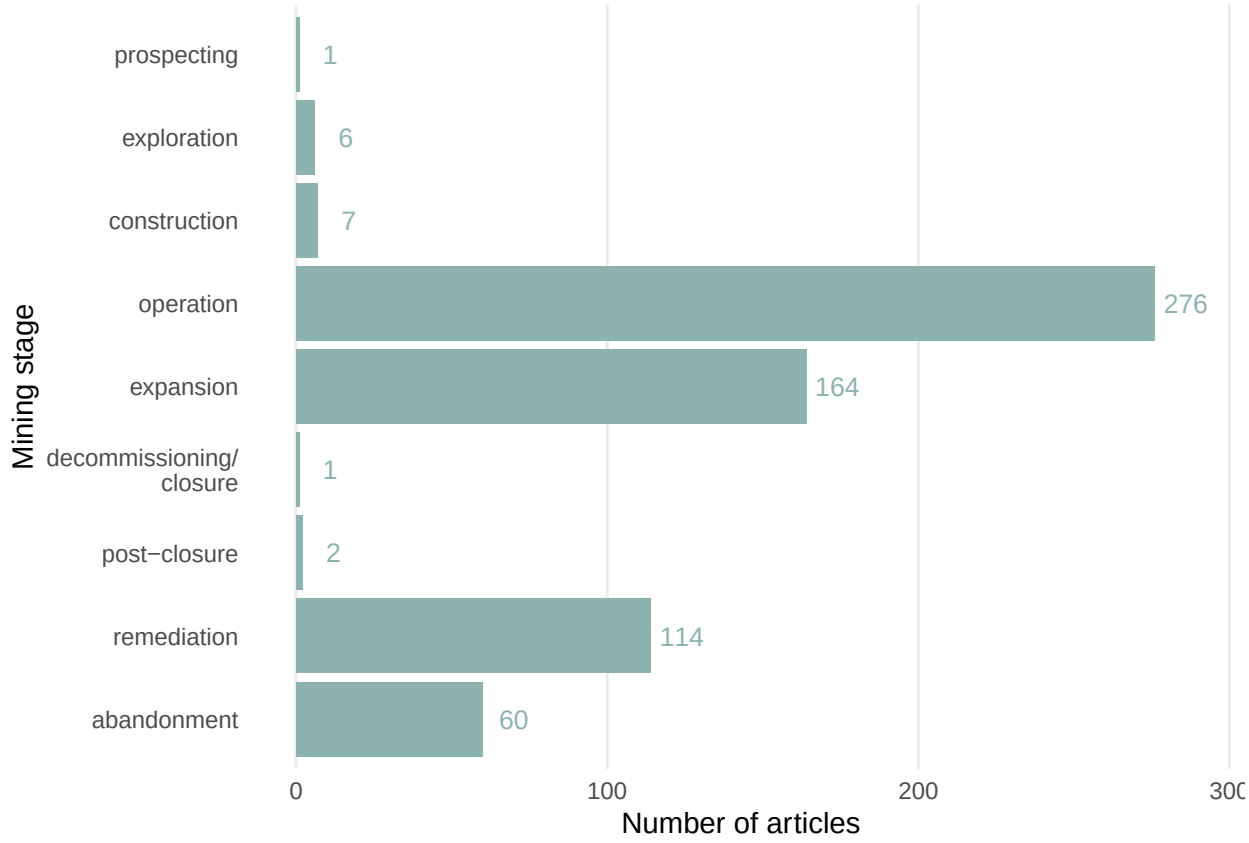
###Mine type

```
## pdf
##   2
```

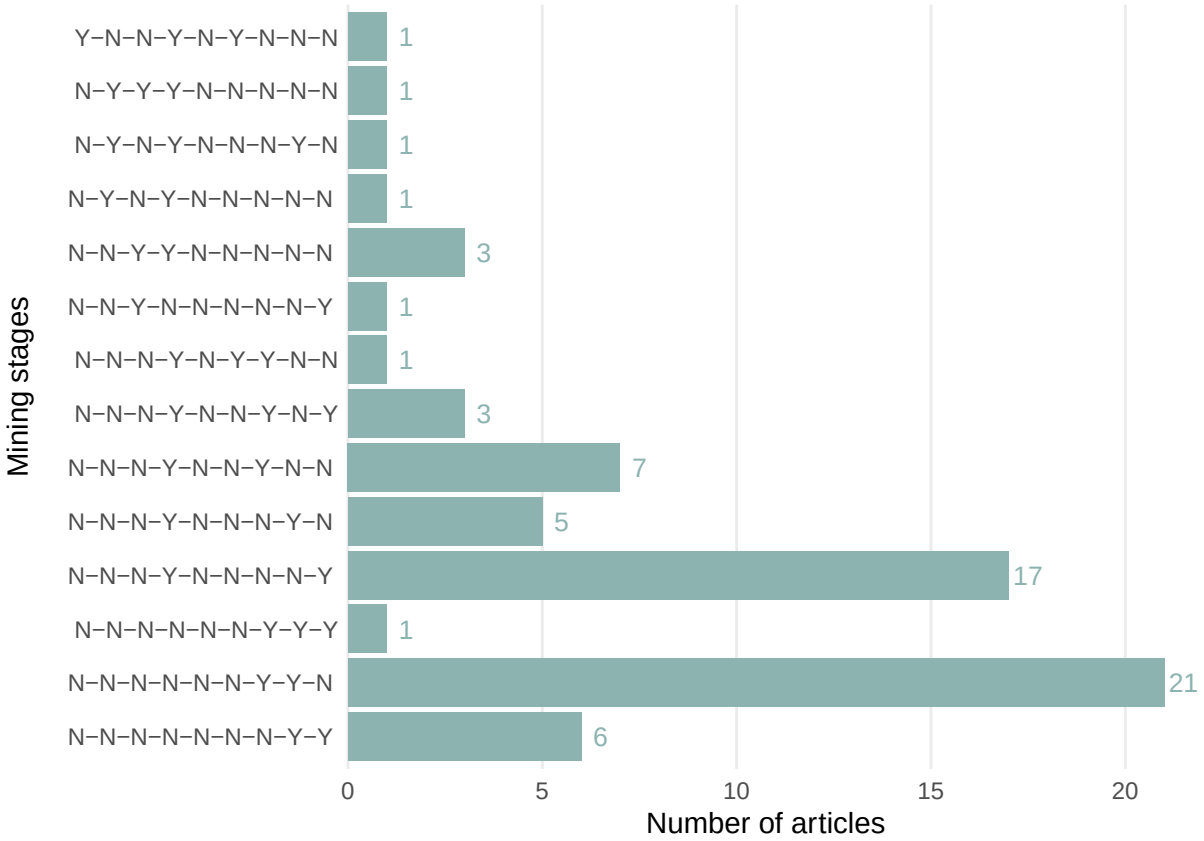


###Extraction stage

```
## pdf
##   2
```


prospecting
exploration
construction
operation
expansion
decommissioning/
closure
post−closure
remediation
abandonment
Mining stage
1
6
7
276
164
1
2
114
60
0
100
200
300
Number of articles

```
## pdf
##   2
```


Y−N−N−Y−N−Y−N−N−N
N−Y−Y−Y−N−N−N−N−N
N−Y−N−Y−N−N−N−Y−N
N−Y−N−Y−N−N−N−N−N
N−N−Y−Y−N−N−N−N−N
N−N−Y−N−N−N−N−N−Y
N−N−N−Y−N−Y−Y−N−N
N−N−N−Y−N−N−Y−N−Y
N−N−N−Y−N−N−Y−N−N
N−N−N−Y−N−N−N−Y−N
N−N−N−Y−N−N−N−N−Y
N−N−N−N−N−N−Y−Y−Y
N−N−N−N−N−N−Y−Y−N
N−N−N−N−N−N−N−Y−Y
1
1
1
1
3
1
1
3
7
5
17
1
21
6
Mining stages
0
5
10
15
20
Number of articles