

# OpenAlex Workflow

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Loading the necessary libraries

```
library(openalexR)
```

```
library(bibliometrix)
```

1. Define a variable in which “works” of the CAU Kiel institution is stored. Obtaining the data from the JSON API OpenAlex (deep-nested data in JSON coding)

```
cau_pub_OA <- openalexR::oa_request(query_url =  
"https://api.openalex.org/works?filter=institutions.id:I32021983?", verbose = "TRUE")
```

2. Definition of a variable in which the downloaded data from OpenAlex API is brought into a flat table format, so-called dataframe (df) and stored as a datadump

```
cau_pub_OA_df <- openalexR::oa2df(cau_pub_OA, entity = "works", verbose = "TRUE")
```

3. Definition of a variable in which the dataframe with ISI tags is converted into table columns

```
cau_pub_OA_df_bibmet <- openalexR::oa2bibliometrix(df = cau_pub_OA_df)
```

4. Writing the ISI data frame to an Excel file

```
WriteXLS::WriteXLS(x = cau_pub_OA_df_bibmet, ExcelFileName = "cau_pub_isi.xlsx", verbose = "TRUE")
```

5. Externally or in Rstudio Rename those columns for which ISI tag names do not match (in general, ISI tags are already set correctly for the most part)

6. Ingesting the Excel file into Bibliometrix / analyses

```
bibliometrix::biblioshiny()
```



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link to the complete publication

<http://dx.doi.org/10.57892/100-36>