**In-Press checking with the CrossRef API**

# Description

A spreadsheet process for checking published online status items for potential updates with data retrieved from the [CrossRef API](https://github.com/CrossRef/rest-api-doc) (<https://bit.ly/2NkTWTt>).

# Prerequisites

**Microsoft Excel 365, 2013 or 2016**. This process relies on the [WEBSERVICE function](https://support.office.com/en-us/article/webservice-function-0546a35a-ecc6-4739-aed7-c0b7ce1562c4) (<https://bit.ly/2M1hqIy>), which is only available in these versions of Excel.

**DOIs** of the items to be checked.

# Instructions

1. Prepare an Excel spreadsheet containing the details of the items to be checked. DOI is the only essential metadata and it should be assigned to a column.
2. Note the cell reference of the first DOI (e.g. B2)
3. On the same row, choose an empty column adjacent to your data and select the cell.
4. In the formula bar enter the following, replacing B2 with your cell reference:

=WEBSERVICE("http://api.crossref.org/works?select=volume&filter=doi:"&B2)

1. Press enter. The cell should display data in JSON format (potentially after a delay of a few seconds).
2. Drag the [fill handle](https://support.office.com/en-us/article/display-or-hide-the-fill-handle-80918200-9ae9-4615-93c9-13d4f1496f81) (<https://bit.ly/2Q7Lcia>) down to apply the formula to the cells below.
3. Adjust the column width so the entire cell value is visible.
4. Identify the cells that contain a volume number.
5. Check and update these items in your repository.

# Troubleshooting

#VALUE! will appear if there is an error. This could be a problem with either the formula (i.e. resulting in an invalid URL string) or a valid formula that does not return data, for example if the DOI is not active. The following steps may help to identify the cause of a problem:

1. Check the formula is correct and try a different DOI.
2. Paste the formula into a web browser, replacing the "&B2 with the DOI, e.g. <http://api.crossref.org/works?select=volume&filter=doi:10.1108/JMHTEP-11-2017-0063>.
3. If data is retrieved in a browser, copy the URL and paste it into a Excel formula, e.g. =WEBSERVICE("http://api.crossref.org/works?select=volume&filter=doi:10.1108/JMHTEP-11-2017-0063").