

# DOI registration for catalogues published in VizieR



In order to improve the visibility of the data published by authors, VizieR is now able to attribute DOI (Digital Object Identifier) to its catalogues. DOI is henceforth a part of the open data landscape in science. This standard is used as a sustainable identification by editors and scientific journals and contributes to facilitate citation and data reusability. There are journals for which data like tables, spectra or images are available in open access only through the VizieR catalogue service. In particular, the data associated to the A&A journal. We expose how VizieR introduced the DOI workflow and show the opportunities they could open up. DOI, by including meta-data are indeed more relevant than classical identifiers. They include the data access in an architecture designed to the web navigation and enable cross references useful for discovery and data citation.

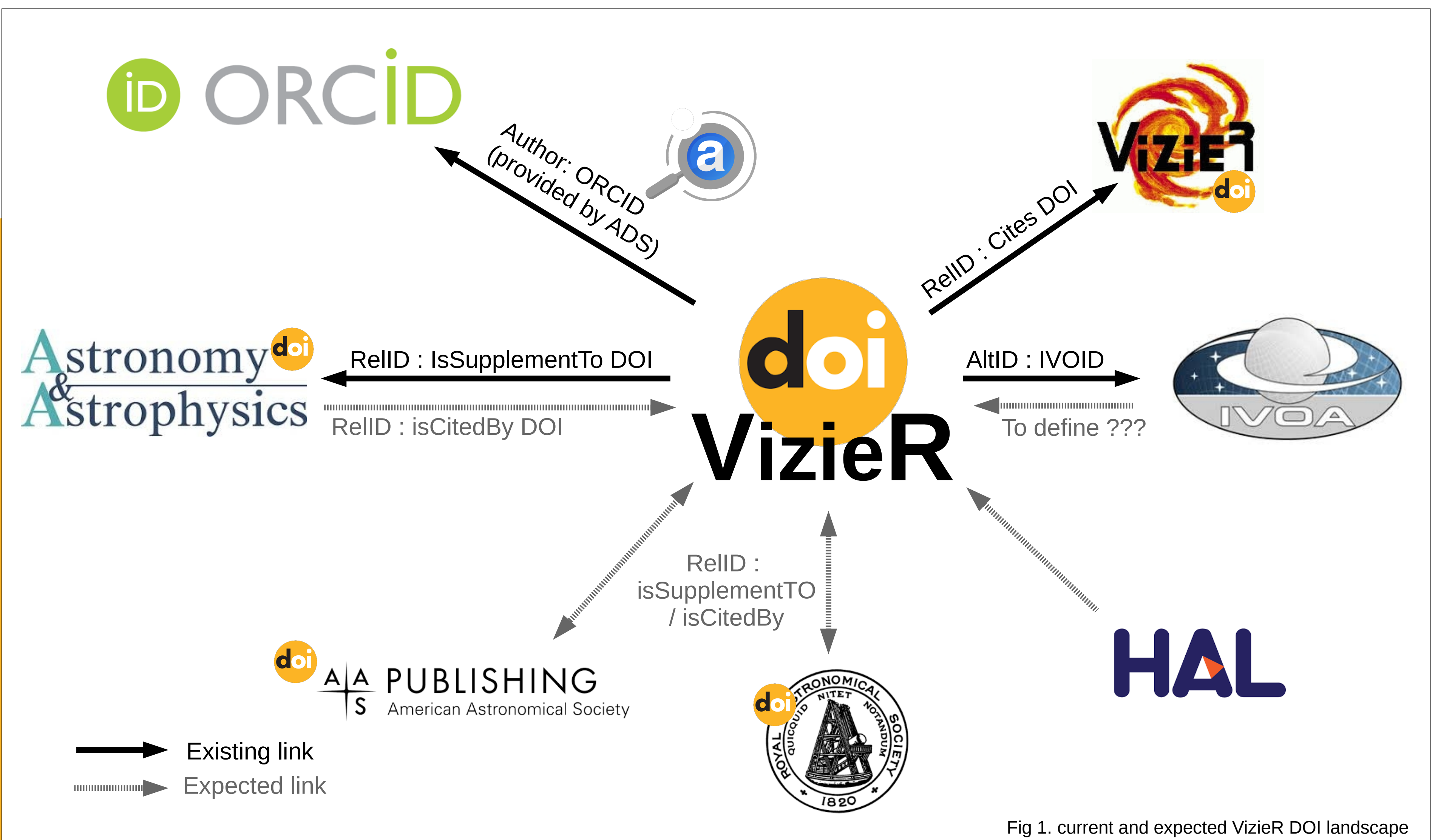


Fig 1. current and expected VizieR DOI landscape

## VizieR DOI definition

A VizieR DOI is assigned to one VizieR catalogue made from tables and associated data (spectra, images, ..), carefully preserved by the CDS and related to an article coming from trusted scientific journal. The dataset is available in open-access through CDS services. The DOI identifies the data with meta-data assigned by CDS and authors, and the services to access the dataset.

## Link resources and dependencies

Link **authors** with their bibliography (ORCID)  
Get ORCIDs from name resolved by ADS

Link the **Virtual Observatory** (ivoid)  
see poster P2.19 André Schaaff  
IVOA Data Curation and Preservation IG effort around DOIs in astronomy

Link VizieR catalogues with **articles** (DOI and bibcode)

Link VizieR catalogues to the VizieR service (DOI)

A generic description that indicates the article origin - this description is displayed in the DataCite search engine

## Perspectives

- Activate the DOI workflow to other journals (AAS, MNRAS)
- Add VizieR DOI in the VO-Registry
- Anticipate the DOI creation before publication with drafted DOI to allow authors to cite the data put in VizieR
- Improve citation and discovery of VizieR catalogues and articles using the DOI architecture (see fig. 1)

## Current workflow activated for A&A catalogues

## A post-refereed publication VizieR DOI created after article and VizieR publication

## VizieR DOI meta-data sample

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## VizieR landing page

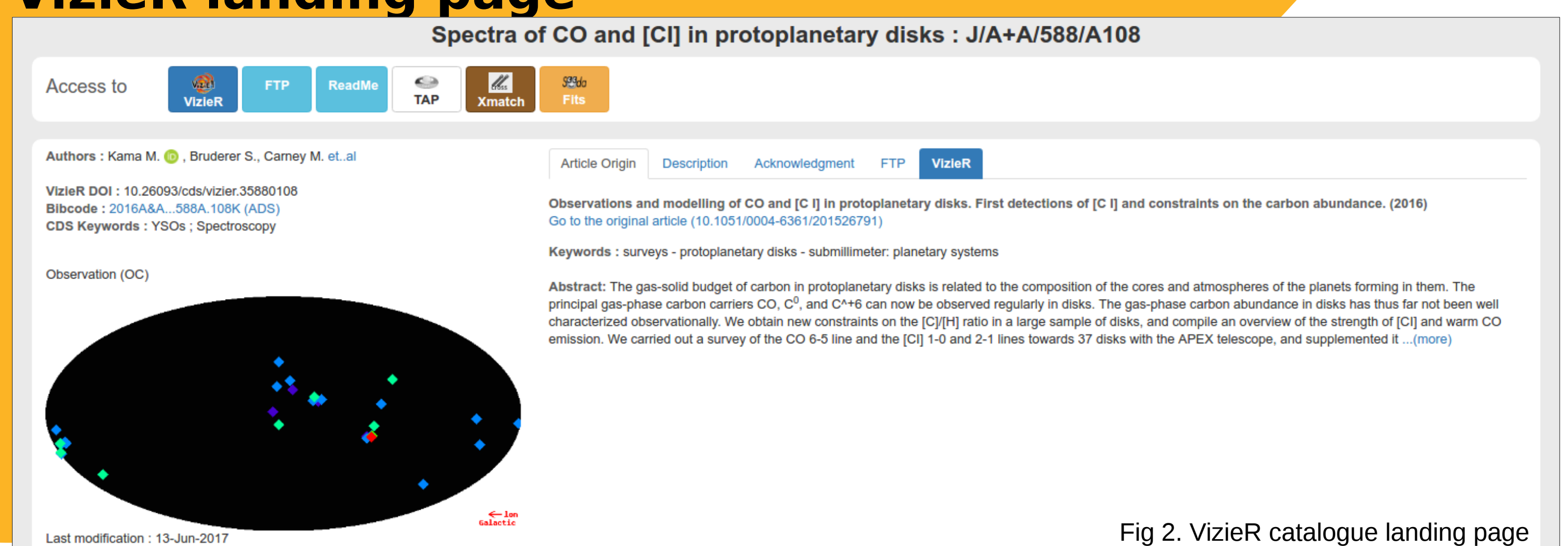


Fig 2. VizieR catalogue landing page



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Ack : Thank to all people (IVOA, ..) and all discussions which was useful to design the VizieR XML meta-data