PIDs for facility instruments: JLSRF perspective

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1. Scope

The JLSRF encompasses research facilities that are

- of scientific purpose (all disciplines)
- large-scale: We are flexible here. It needn't be a multi-million-euro setup.
- open to external scientists
- possibly part of a larger setup

2. Origin

Main motivation came from the community (in particular, the Jülich Supercomputing Centre JSC), and the Helmholtz Gemeinschaft HGF:

- Make HGF competence in large facilities visible
- Make the facilities themselves visible: more prominently in articles, but also in bibliometric analyses

⇒ Make the facilities citable!

Being explicitly devoted to the Open Access movement, the Central Library at Jülich picked up the idea to create an OA journal to meet the community needs.

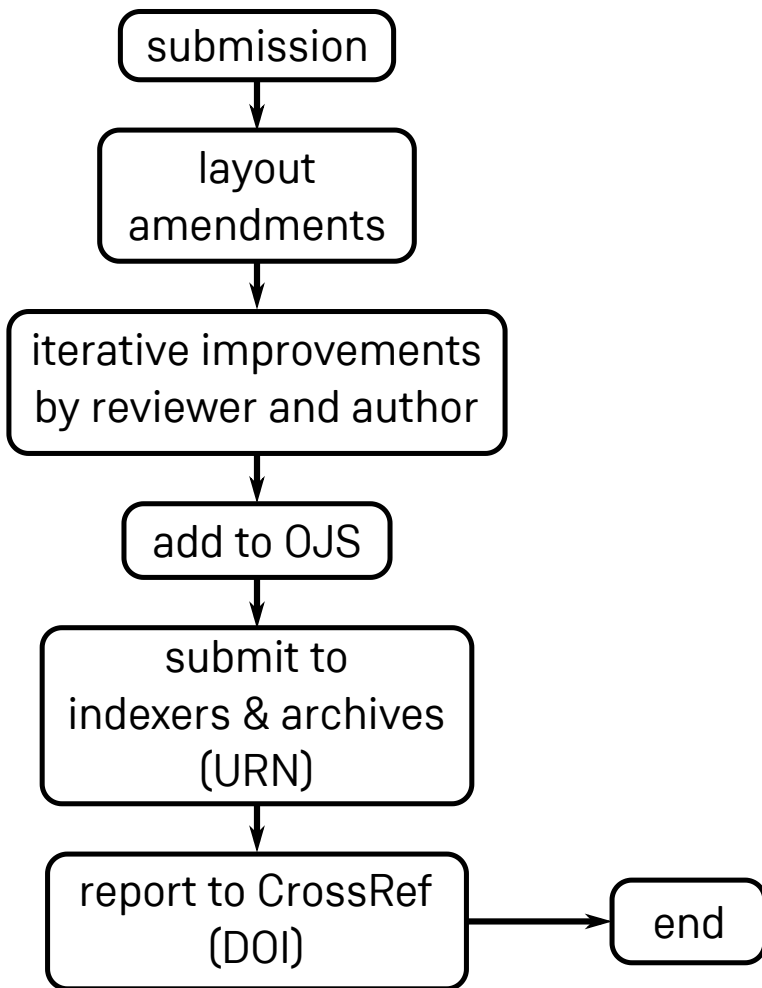First volume published in 2015 with 39 articles.

3. Background

- Technically, the journal is managed using Open Journal Systems
- For institutions with (expectedly) many articles, we ask for contact people in those institutions, so that the review process scales
- Our JLSRF activities are included in ISO-9001-certified workflows

4. Services

- submitted layout (Word, LaTeX) is streamlined by editors
- no *peer* review, but *editorial* review is made by us & contact people in the institutions
- all articles Open Access (CC-BY 4.0), no article processing charges
- DOI (through CrossRef) + landing page

- digital archiving + URN by the German National Library

5. Workflow

```
submission
    ↓
layout
amendments
    ↓
iterative improvements
by reviewer and author
    ↓
add to OJS
    ↓
submit to
indexers & archives
(URN)
    ↓
report to CrossRef   →   end
(DOI)
```

6. Landing page

Journal of large-scale research facilities

JLSRF

JuSPARC - The Jülich Short-Pulsed Particle and Radiation Center

Markus Büscher, Roman Adam, Christian Tusche, Anna Hützen, Carsten Wiemann, Ying-Jiun Chen, Claus M. Schneider

Abstract

JuSPARC, the Jülich Short-Pulsed Particle and Radiation Center, is a laser-driven facility to enable research with short-pulsed photon and particle beams to be performed at the Forschungszentrum Jülich. The conceptual design of JuSPARC is determined by a set of state-of-the-art time-resolved instruments, which are designed to address the electronic, spin, and structural states of matter and their dynamic behaviour. From these instruments and experiments JuSPARC derives the need of operating several dedicated high pulse-power laser systems at highest possible repetition rates. They serve as core units for optimized photon up-conversion techniques generating the light pulses for the respective experiments. The applications also include experiments with spin polarized particle beams, which require the use of laser-based polarized gas targets. Thus, in its rst stage JuSPARC comprises four driving laser systems, called JuSPARC_VEGA, JuSPARC_DENEB, JuSPARC_SIRIUS and JuSPARC_MIRA, which are outlined in this article.

Full Text:

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7. Impressions from articles

Not just metadata, but a *comprehensive* presentation of the facility!

8. Versioning

Every facility article may receive an update at any time. Experimental setups may change over time, after all.

The JLSRF follows a slightly unorthodox approach to DOI versioning by adding a numerical suffix:

- http://dx.doi.org/10.17815/jlsrf-7-177
- http://dx.doi.org/10.17815/jlsrf-7-177-1
- http://dx.doi.org/10.17815/jlsrf-7-177-2
- etc.

We do not yet make use of „concept DOIs" (pointing to the whole set of versions).
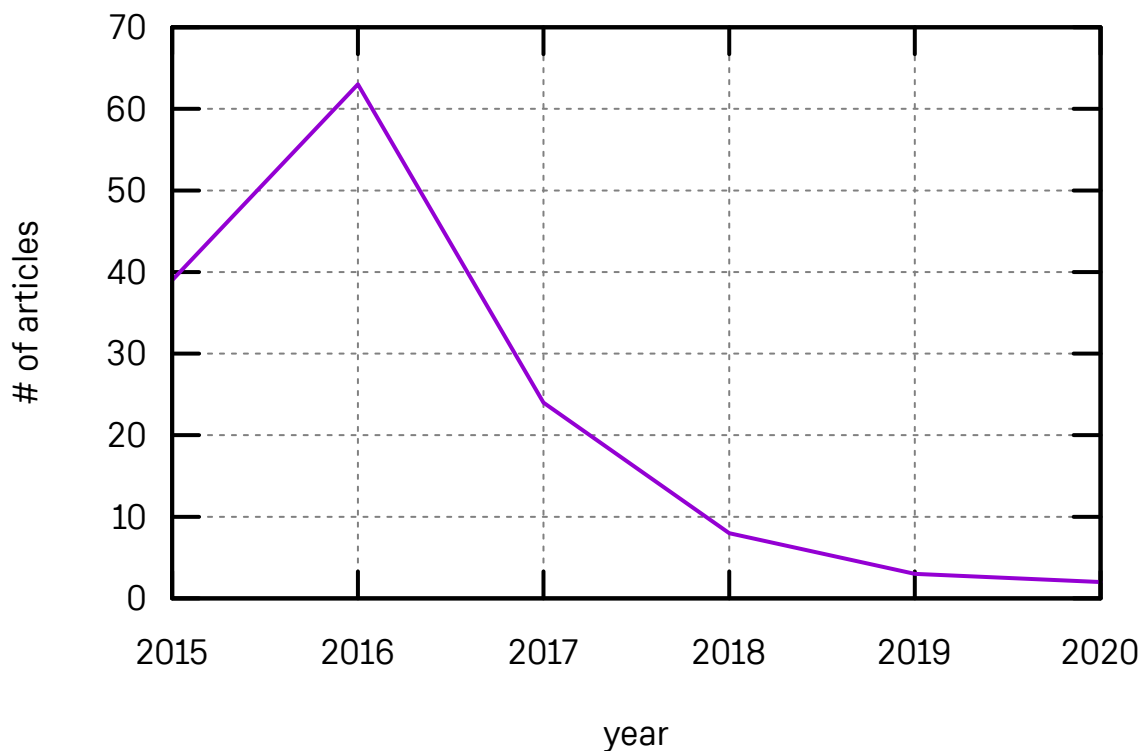
9. Visibility

We are indexed by:

- OpenAIRE
- BASE
- DNB
- DOAJ
- Science Open

… and by those that harvest the above, e.g. Google Scholar.
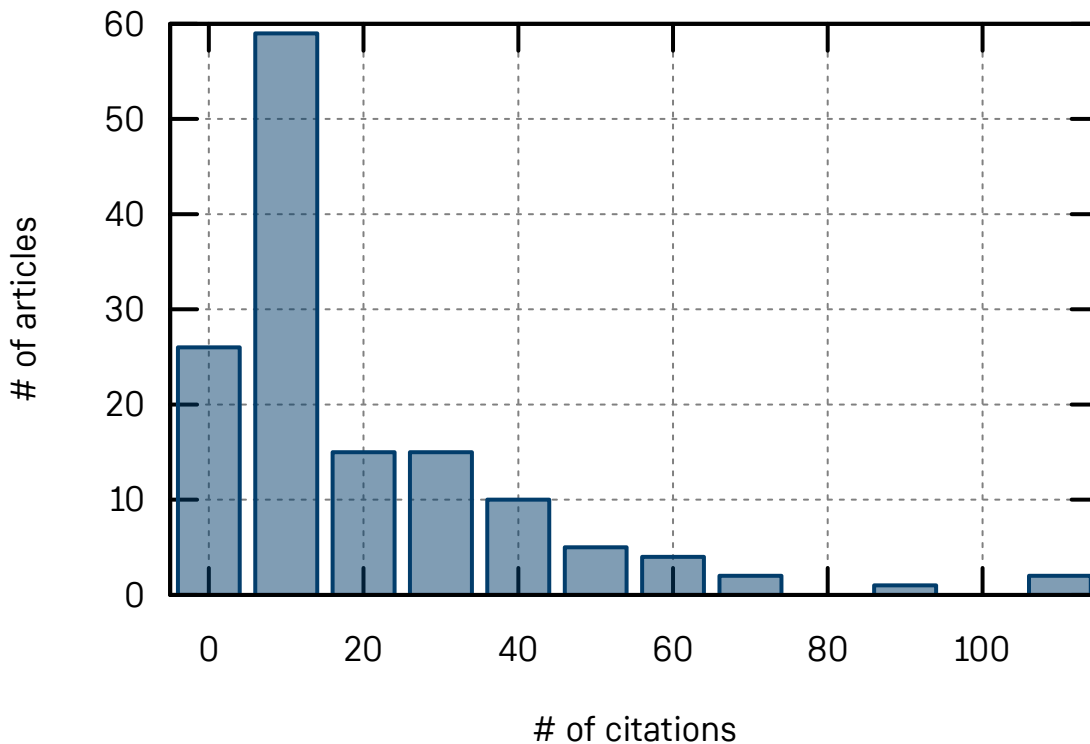
In case of OpenAIRE and BASE, this is done via harvesting (OAI-PMH). For all other cases, we report/submit the article manually.

10. Statistics

Total: 139 articles; we contribute the decline to saturation effects.

11. Statistics

Mean number of citations: 14

12. Citation

Example:

Jülich Supercomputing Centre. (2015). JUQUEEN: IBM Blue Gene/Q Supercomputer System at the Jülich Supercomputing Centre. *Journal of large-scale research facilities*, 1, A1. http://dx.doi.org/10.17815/jlsrf-1-18

About authorship

- Author is the institution
- The human author(s) are mentioned in the article body
- Motivation: Avoid forcing authors to make personal citations

13. Summary

- The JLSRF makes scientific facilities citable.
- The community has made extensive use of this service.
- The PID resolves to a landing page, which in turn points to a comprehensive description of the facility.
- Open Access, CC-BY, no fees.