

Publishing of PROCEEDINGS From general aspects to recommendations for FCC weeks Christian Caron

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**FUTURE
CIRCULAR
COLLIDER**
Expanding our Horizons

ADVANCING
DISCOVERY

The Future Circular Collider Innovation Study (FCCIS) project has received funding from the European Union's Horizon 2020 research and innovation programme under grant No 951754.

Overview

- What are proceedings
- How do they differ per discipline
- What publication formats exist
- How indexing & abstracting services handle proceedings
- How much are proceedings cited
- Recommendations for FCC weeks/workshops/meetings

What are Proceedings

Proceedings used to be the typical means by which new results were first orally presented in exclusive society or academy meetings, and then recorded in print. (cf “Proceedings of the National Academy of Sciences” (PNAS) that survived as journal)

The enormous increase of scientific meetings globally, and the rise of peer-reviewed journals have fundamentally changed this.

Proceedings, nowadays, are typically designating the collection of material (anything from abstracts to full papers containing more or less original material) that is meant to be made public either as grey literature or to be published as part of publisher-based platforms (books, journals, databases,...)

Overall, due to ‘offer exceeding demand’, proceedings have experienced a significant depreciation since their original inception though they still play various roles in some communities.

How do they differ per discipline

In the physical sciences and mathematics:

- Researchers will typically not present (major) new results, but minor additions, technical details, follow-up on, or rehashing of, earlier published work.
- Quite a few researchers present same or similar talks at different conferences, where this becomes more of a promotional tour for previously published material.
- Pre-conference usually submission of abstracts only. Proceedings, if any, are compiled post-conference.
- Problems: often conference organizers feel they cannot “afford” just selecting original/primary research for publication
- Special cases
 - Experimental high-energy physics: The most important aspect is the selection of the researcher to give the talk on behalf of a collaboration, not the content, typically marked as “preliminary” if novel. (i.e. the proceedings organization addresses essentially a recognition issue)

How do they differ per discipline

- Accelerator Physics : very few dedicated journals

Only dedicated journal: Physical Review Accelerator & Beams (APS), otherwise general instrumentation journals. Joint Accelerator Conferences Website

Computer science and related areas in engineering:

- Researchers often publish primary research in conference proceedings (book) series and less in journals. This is slowly changing.
- Full Papers are typically submitted and peer-reviewed pre-conference
- Special Case: “IT physics”: computer science for large collaborations (HEP, nuclear physics, astro, light sources,...): physicists typically need/prefer proper journal.

Only dedicated journal: Computing and Software for Big Science (Springer), major difficulty is to get researchers writing up journal-type papers.

What publication types exist

- Publication in a **regular journal** as special issue resp. topical article collection.
 - Attractive for organizers/contributors (if journal is suitably indexed and, ideally, has IF)
 - Typically requires selection of original material
 - Conference usually not very or not at all visible
- Publication in a **proceedings journal**, in a **proceedings book series** or in a **proceedings repository** (typically with an ISSN like journal). These options are getting ever more equivalent as they are basically handled the same way by abstracting and indexing services. Examples:

EPJ Web of Conferences (EDPS, repository)

Proceedings of Sciences (SISSA, repository)

Journal of Physics - Conference Series (IoPP, journal)

Materials Today: Proceedings (Elsevier, journal)

AIP Conference Proceedings (AIP, book series)

Lecture Notes in Computer Science (Springer, book series)

- Publication as a stand-alone book

How indexing & abstracting services handle proceedings

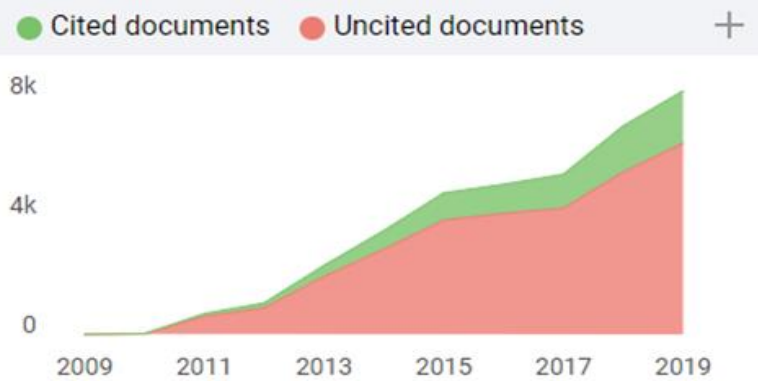
Web of Science (Clarivate) - Change of policy in the mid-2000s

- Clarivate established a separate proceedings data base, the Conference Proceedings Citation Index (CPCI)
- Since the creation of this separate index, it has delisted proceedings-only journals from the ESCI/SCIE -> **no proceeding journal/repository will ever get an IF**
- Journals with more than 20% conference papers risk delisting and/or will not be accepted for indexing in the journals database.

NB: Clarivate does not automatically accept content categorization; it has been known to reclassify article type (e.g. original article) to proceedings paper.

* Proceedings books, whether in a series or stand-alone, are indexed on a case-by-case basis, indexing for CPCI is not guaranteed.

SCOPUS indexes proceedings journals normally (providing all metrics) and also proceedings book series, but not stand-alone proceedings books.



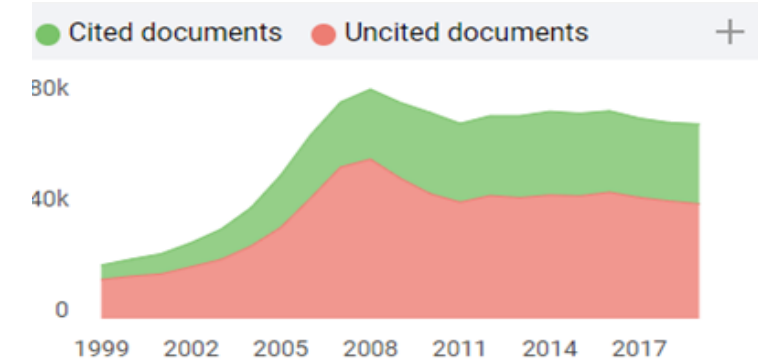
How much are proceedings cited?

From top to bottom:

EPJ Web of Conferences

Lecture Notes in Computer Science

For comparison: EPJ Plus and EPJ C

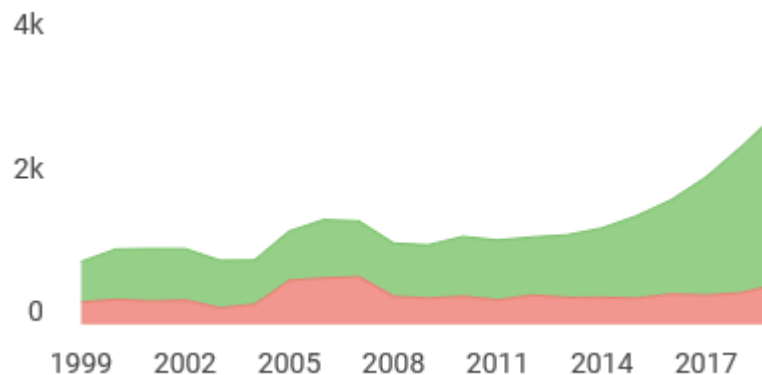
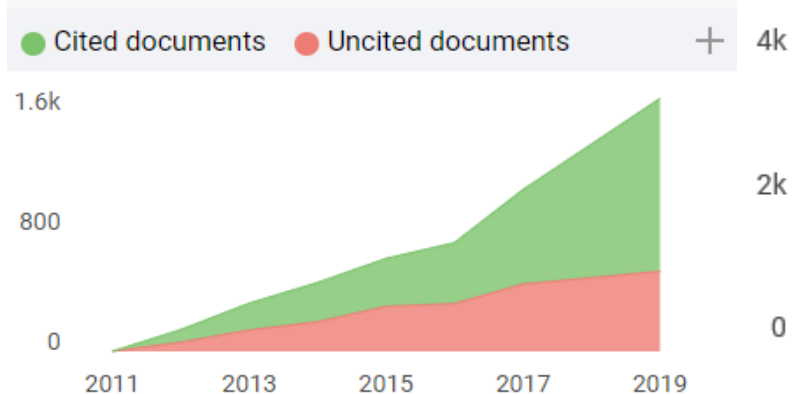


Data from Scimago Journals Ranks

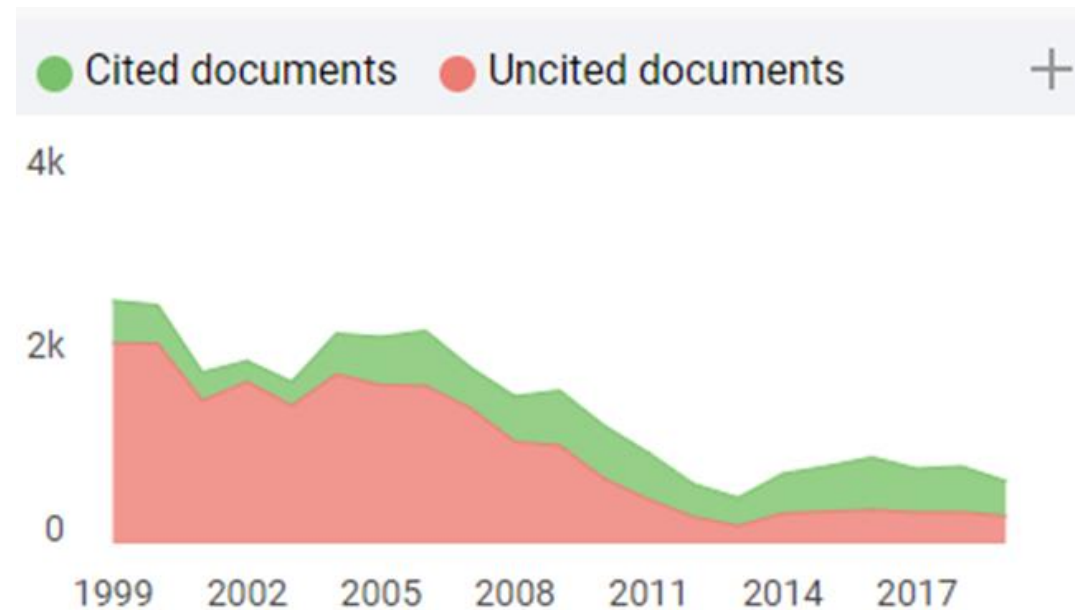
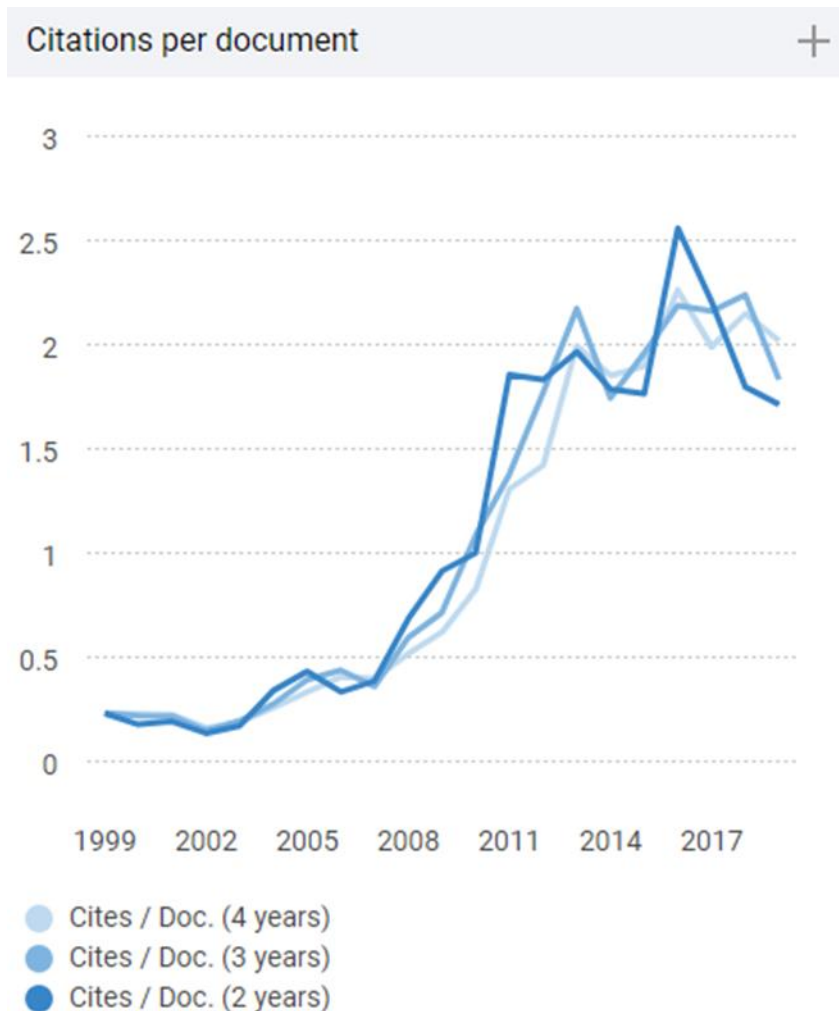
Cited Documents: Number of documents cited at least once in the three previous years, --i.e. years X-1, X-2 and X-3

Uncited Documents: Number of uncited documents in the three previous years, --i.e. years X-1, X-2 and X-3

Citable Documents: Number of citable documents published by a journal in the three previous years (selected year documents are excluded). Exclusively articles, reviews and conference papers are considered.



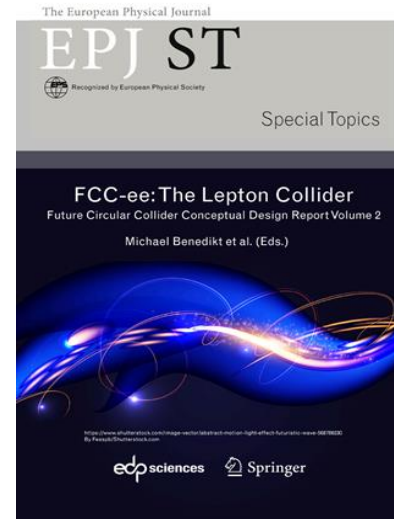
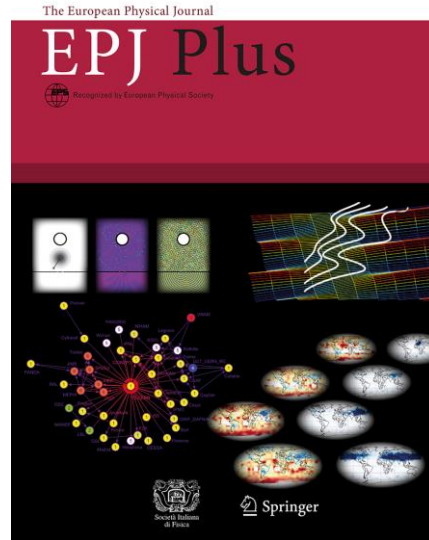
Impact on journal citations when phasing out proceedings EPJ Special Topics (2007)




Recommendations for FCC weeks/workshops/meetings

- 1) Early announcement that there will be no (single/traditional) conference proceedings but the opportunity to submit original material to various journal special issues. Authors need to explicitly mention this when submitting an abstract to conference organizers and be aware the main refereeing process will be done by the selected journal.
- 2) Organize the conference around well defined topical sessions of critical mass and select/appoint in advance session chairs which are willing to jointly draft a proposal for a special issue for a given journal and be the guest editors.
- 3) For the guest editors: consider in addition of selecting suitable original material from the session, to combine this selection with an open call to the scientific community to submit further original papers by those who – for whatever reason – could not originally contribute to that particular session.
- 4) Editorials (i.e. the ‘prefaces’) for the special issues concentrate on describing the content and usefulness for readers. Conference-related promotion is to be avoided in Editorials and rather done in terms of marketing and social media attention around the meeting and published material.

FCC relevant Springer journals for special issues

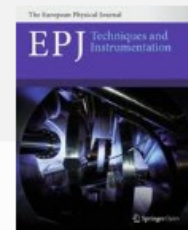


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EPJ Techniques and Instrumentation

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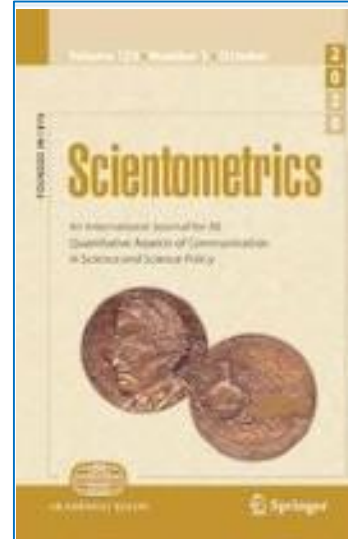
Call for Papers: Instrumentation and Control of Large Helium Cryogenic Systems



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SPRINGER NATURE

FCC relevant Springer journals for special issues



Volume 114, issue 2, Feb

Special Issue: Eugene Garfield Memorial Issue

31 articles in this issue

An International Journal for all Quantitative Aspects of the Science of Science, Communication in Science and Science Policy

Editorial preface to the Eugene Garfield Memorial Issue

W. Glänzel, A. Schubert & T. Braun

EditorialNotes | Published: 20 January 2018 | Pages: 371 - 372

Editorial | [Open Access](#) | Published: 29 November 2019

A Roadmap for HEP Software and Computing R&D for the 2020s

[Eckhard Elsen](#) 

Computing and Software for Big Science **3**, Article number: 16 (2019) | [Cite this article](#)

SPRINGER NATURE

FCC relevant Springer journals for special issues



Volume 9, issue 2, June 2018

Special Issue: Geography and Entrepreneurship

20 articles in this issue



The Journal of TECHNOLOGY TRANSFER

Volume 45, issue 5, October 2020

Special Section: A Social Perspective of Knowledge-Based Innovation: Mobility and Aggregation

Issue editors

Lara Agostini, Federico Caviggioli, Francesco Galati & Barbara Bigliardi