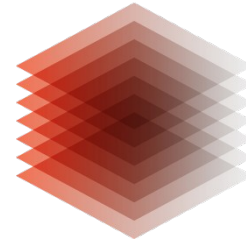LEIBNIZ-INFORMATIONSZENTRUM
TECHNIK UND NATURWISSENSCHAFTEN
UNIVERSITÄTSBIBLIOTHEK
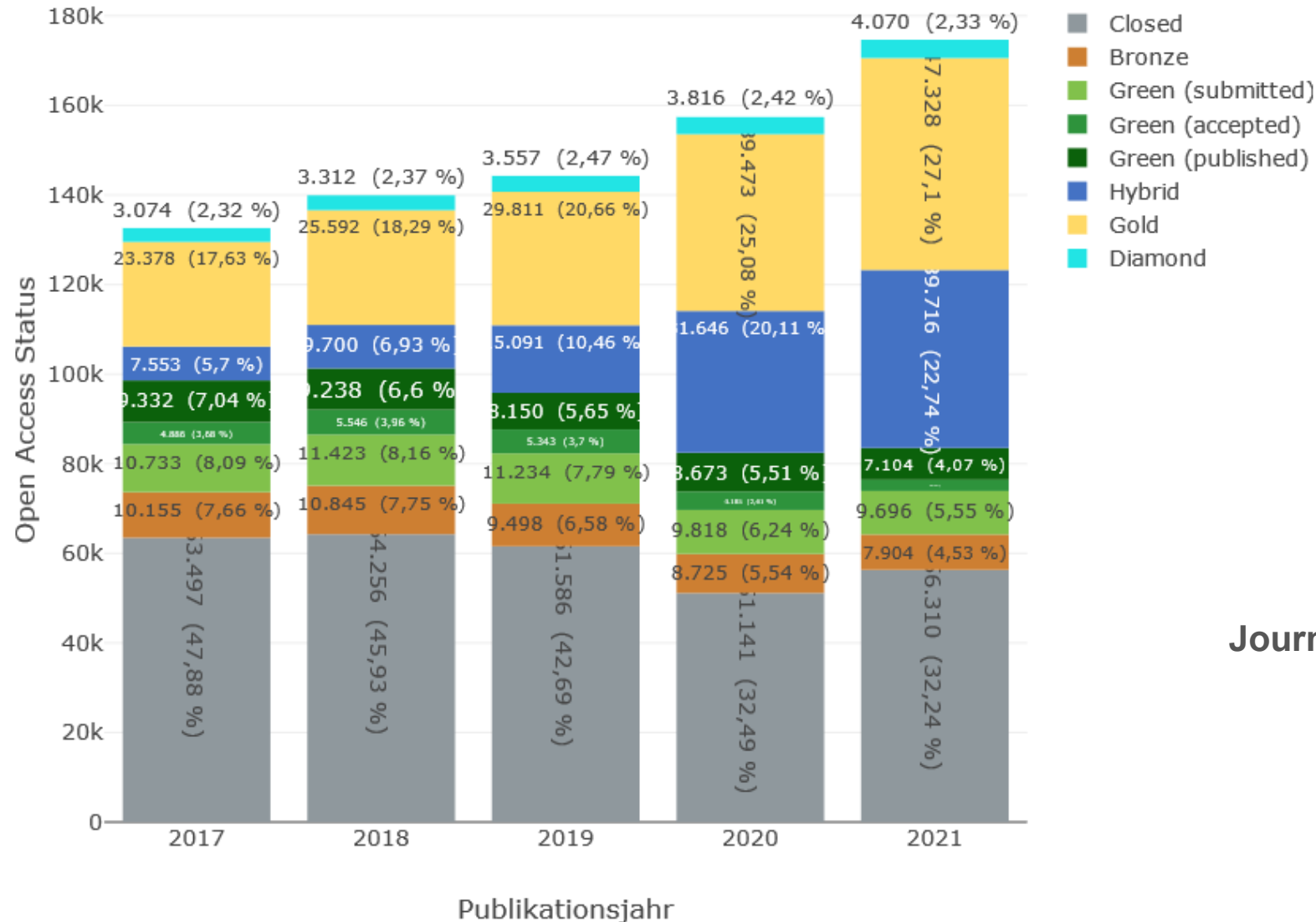
TIB

No time like the present!
TIB's Support for Mathematics' Publishing Demands: Open Access, Affordable, Community-Owned

Stefan Schmeja
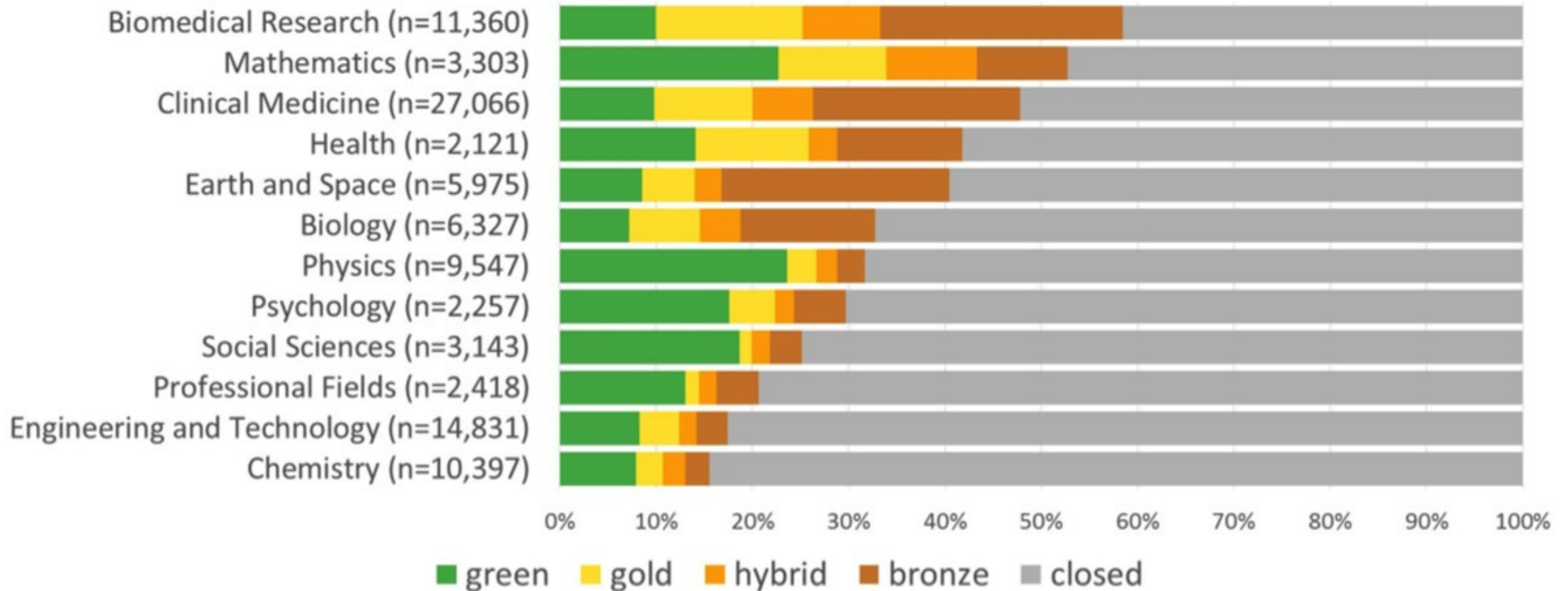13. September 2022
DMV-Jahrestagung 2022

Leibniz
Gemeinschaft

Open Access: Status quo in Germany

Journal artices of authors from German institutions
© Open-Access-Monitor,
Forschungszentrum Jülich
https://open-access-monitor.de

Open Access: Status quo in different fields

H. Piwowar et al. 2018, PeerJ 6:e4375
https://doi.org/10.7717/peerj.4375
CC BY 4.0

Open Access: Problems with publication-based funding

1. Dominant business model is publication-based, i.e. APCs (paid directly or via transformative agreements)

2. **What have we achieved?**

   - Open Access mainly for those who can afford it

3. **What have we not achieved (yet)?**

   - Reducing costs

   - Reducing dependeny on commercial publishers

   - Control of publishing venues by the scientific community

TIB

- German central library for technology and architecture, chemistry, computer science, mathematics and physics
- University library of Leibniz Universität Hannover

- founded in 1959
- since 1990: member of Leibniz Association
- since 2016: independent foundation of the state of Lower Saxony

- committed to Open Access
- support for researchers in Hannover and nationwide

Standort TIB
Technik/Naturwissenschaften
und Marstallgebäude

Open Access Support by TIB

1. **Publishing funds** for Leibniz Universität Hannover and Leibniz-Gemeinschaft

2. Funding of **arXiv** for German universities (arXiv-DH)

3. Supporting flipped or newly founded journals (e.g. *Algebraic Combinatorics* via LYRASIS OACIP)

4. **Renate**: repository for science and technology

5. **TIB Open Publishing:** platform for conference proceedings and journals

6. **TIB AV Portal**: platform for scientific videos

7. **B!SON:** recommender system for Open Access journals

8. **KOALA**: consortial funding of Open Access journals

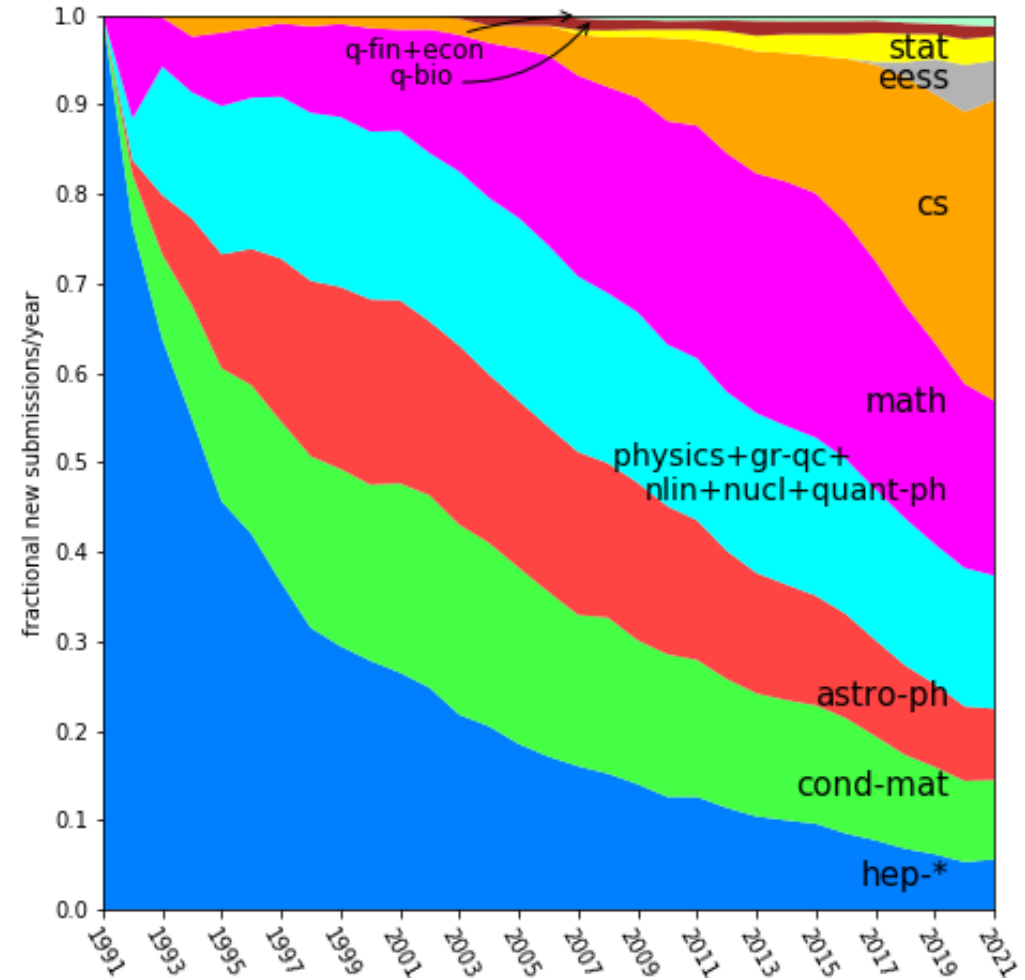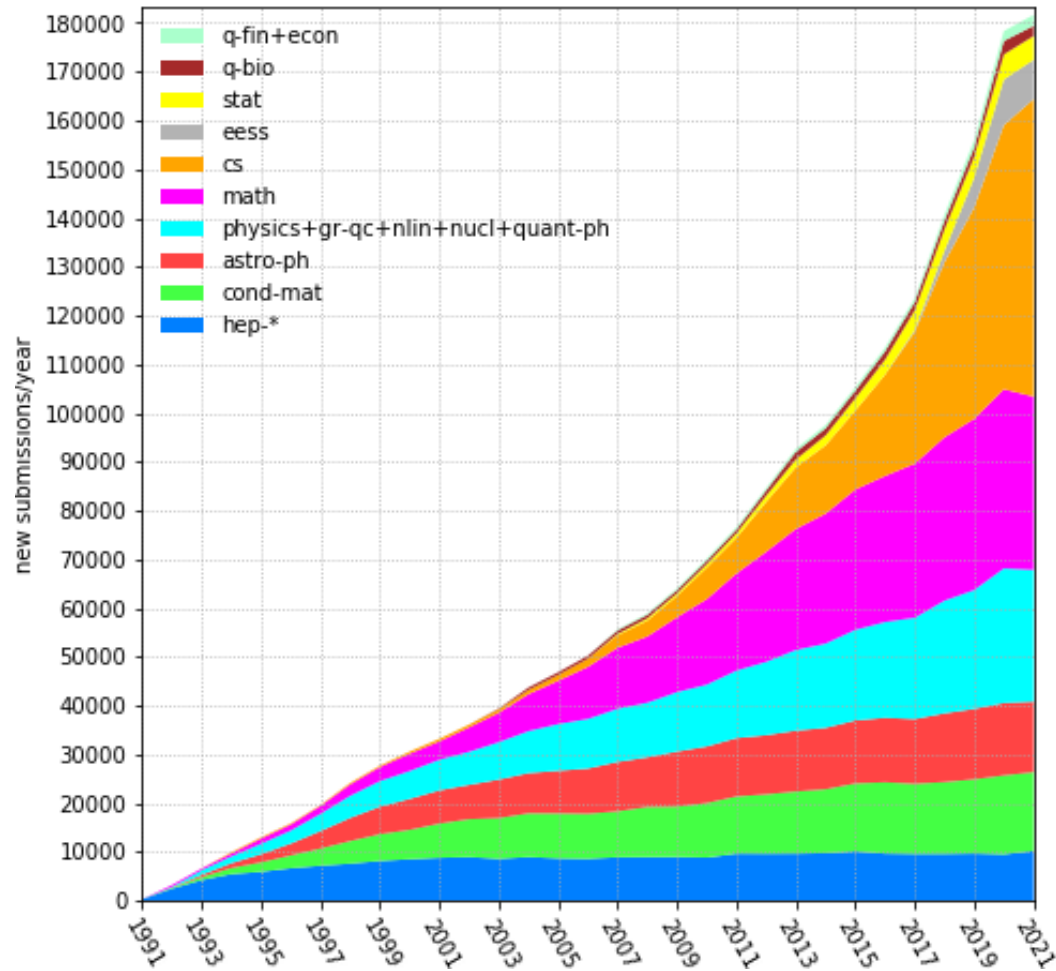9. Information on Open Access, e.g. **open-access.network**

Criteria for TIB's publishing platforms and OA activities

1. no costs for readers *and* authors

2. governed by the scientific community

3. operating on a not-for-profit basis

4. transparent on costs and governance

5. in accordance with data protection and privacy legislation (e.g. no user tracking)

6. compatible with Open Access requirement of funders

7. all content is digitally preserved

arXiv

1. Preprint server for physics, mathematics, computer science

2. founded in 1991

3. currently > 2,1 million documents, ~180.000 uploads per year

4. costs: ~ 2 Mio. $/year, covered especially through membership fees from institutions

5. **arXiv-DH**: consortium of German universities, led and funded by TIB, one of the largest supporters of arXiv

arXiv: Uploads per year

https://arxiv.org/help/stats/2021_by_area

Renate: Repository for Science and Technology

- disciplinary repository for science and technology

- Original publications (e.g. conference proceedings, reports, working papers) and self-archived versions

- open for authors from all institutions, in particular for institutes of Leibniz Association (sections D/E)

- online since 2019

- DOIs assigned to all publications

- Indexed in search engines and library catalogues

https://oa.tib.eu/renate/

TIB Open Publishing

- Non-commercial offer for editors and conference organizers

    - New publications, transfers, flipping

    - *Open Conference Proceedings* for single proceedings volumes

- Mandatory publishing best practices (inline with Plan S, DOAJ seal, etc.)

    - CC BY license and author copyright

    - Long-term archiving

    - Persistent identifiers: ISSNs (online), DOIs (Crossref), ORCID, ROR

    - Editorial policies/website content

    - Transparent information regarding financing and quality assurance

- Use of OJS as free editorial support software

TIB Open Publishing

- What do we offer?
  - Technical setup of proceedings/journals
  - Support/training for editors
  - Semi-automatic production of the contributions (template-based)
  - Support for indexing and dissemination (Google Scholar etc.)
  - Use of plagiarism check software (Similarity Check)
  - Automation and standardization
  - Individual offers based on standardized pricing scheme

https://www.tib-op.org/

B!SON – Bibliometric and Semantic Open Access Recommender Network

- **Development of a recommender system for open access journals**
  - Recommendations for suitable, quality-assured open access journals for a manuscript to be published
  - machine-learning based determination of similarity of title/abstract ↔ corpus of article metadata (DOAJ) and cited literature ↔ corpus of citation data (OpenCitations)

- Open source, free of charge, publisher-independent, no collection of usage data
- Funded by German Federal Ministry of Research and Education (BMBF)
- Partners: TIB (Hanover), SLUB (Dresden)
- 17 supporting institutions

- **Beta version** online since spring 2022, final version due spring 2023
- **Project info: https://projects.tib.eu/bison/en/**
- **Contact: bison@tib.eu**

KOALA: consortial Open Access funding

Aim:

- enable collective and fair Open Access funding without costs for authors (APCs)

concrete goals:

- establish consortia (libraries, but also companies, museums etc.) for funding Open Access journals and series

- offer advice for the transformation to consortial Open Access models

- BMBF funded project, Partners: TIB and University of Konstanz

- Currently pledging phase for first two bundles of journals
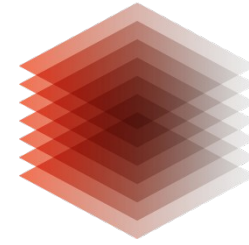
- bundle of mathematics journals planned for 2024

https://projects.tib.eu/koala

open-access.network

- BMBF funded project, 6 project partners

- Information and networking platform on Open Access

  - website (German and English)

  - explanatory videos and other materials

  - monthly webinars („Open Access Talk")

  - Workshops, barcamps, conferences

  - Helpdesk

- https://open-access.network

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TIB

MORE INFORMATION:

https://tib.eu/openaccess

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