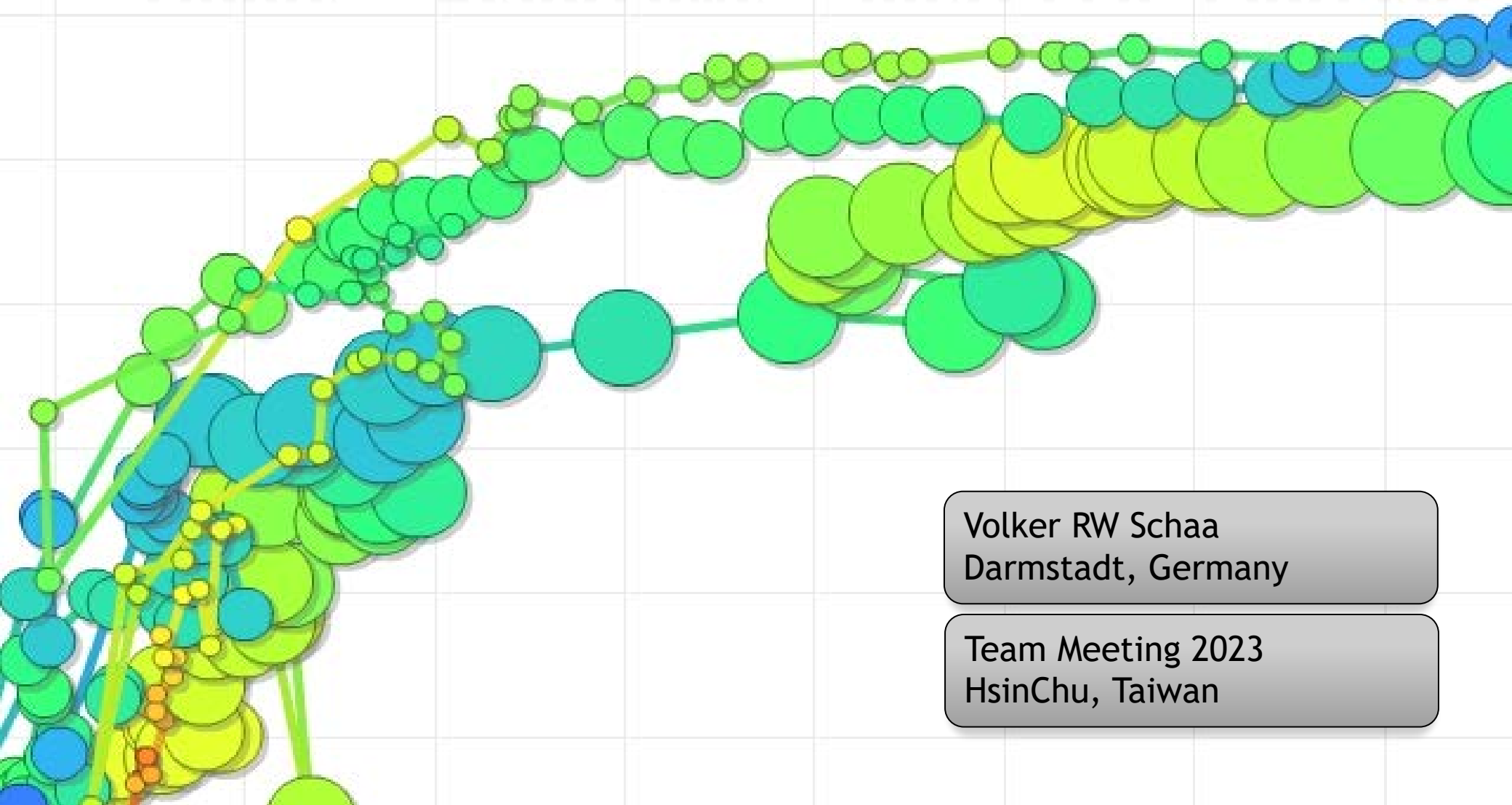


# \* Trends in Paper Submission: Types, Problems, Quality Control



Volker RW Schaa  
Darmstadt, Germany

Team Meeting 2023  
HsinChu, Taiwan

Over the years within JACoW each conference and their authors saw a shift in preferred platforms, file types, and accuracy of submissions.

This talk will investigate and make comment on these evolving trends in

- ❖ accuracy of submissions, and
- ❖ changes in file type for conferences.

What kind of changes took place will be shown based on data of the last 19 years [2004–2023] (where available) for

- ❖ accuracy of submissions, and
- ❖ changes in file type for conference series.

Data shown for 2020 and 2021 are all from virtual conferences with editors around the world without the luxury of having recently attended a Team Meeting or one of the bigger conferences as trainees. Therefore a tendency to more ‘common’ error descriptions (and codes) can be observed. Nevertheless problem areas are still identifiable.

Changes in

❖ accuracy of submissions

❖ □ Better and Worse □

**FC** Files related Codes  
**FP** Font Problems  
**MP** Miscellaneous/Minor Problems  
**TC** Title/Table/Text formatting Codes  
**UT** Use of Template

**Codes referring to Files**

**FC00** General Problems with files  
**FC01** PS/EPS/PDF/source or supporting file missing; file wrongly named  
**FC02** Problem with pictures (too big, color conversion in PDF fails, lines/colors disappearing, numbers not readable, internal problems)  
**FC03** Bib(La)TeX: wrong reference type, bib field or bib field content, missing bib field  
**FC04** Multiple or Unusable Files  
**FC05** Bad EPS/PS/PDF: Scale to fit; Colour image printed B/W; PostScript/EPS doesn't distill  
**FC06** LaTeX error: not compilable, package missing, multiply defined labels, or other info  
**FC10** full page image, no text

**Codes referring to Font Problems**

**FP00** General Problems with Fonts  
**FP01** Font Problems (wrong or missing font, Type3/bitmap font as main text, too many fonts>50)  
**FP02** Font Problems (missing character, unknown glyph, unknown encoding: PDF doesn't contain readable text for search/export)

**Codes referring to Miscellaneous Minor Problems**

**MP00** Miscellaneous Problems  
**MP01** Status set to RED to enable re-upload  
**MP02** Spelling Corrections  
**MP03** Too many pages, blank pages  
**MP04** Comments to the Author/Editor in Chief

**Codes referring to Title, Text, Table, Figure Formatting, Equations, References, Graphics**

**TC00** General Problems related to formatting  
**TC01** Incorrect Title, Authors, Affiliation formatting (size, full UPPER/lowercase, not in required lowercase [e.g. MHz], city/country missing)  
**TC02** Text formatting incorrect (paragraphs, section/sub-section headings, indentation, column/intercolumn width, wrong text flow, number/unit split over lines)  
**TC03** Table formatting incorrect (not centered, outside margins, caption below table, wrongly labeled, not in Initial Caps, single/multiple line caption not centred/justified)  
**TC04** Figure formatting incorrect (outside margins, single/multiple line caption not centred/justified/placed above, Caption wrongly labeled [abbreviated, colon missing, wrong font size, bold/italic])  
**TC05** Footnote formatting incorrect (outside margins, no line above, not at bottom/first column, missing)  
**TC06** Reference or Reference formatting incorrect (missing, multiply defined, wrong order, indentation, hyperlink, inconsistent, wrong, incomplete)  
**TC07** Figure/Table/Equation/Reference numbers not in sequence  
**TC08** Figure/Table/Reference not referenced in text or missing  
**TC09** Equation/Eq., Figure/Fig., Table wrongly used in text (lower case, abbreviated, period missing)  
**TC10** Graphics problem (too slow displaying, too small, resolution too low/high, text not readable)  
**TC11** Equation formatting incorrect [outside margins, Eq. number outside, not Eq. (x)]  
**TC12** Badly formatted units [italic, spacing,  $\mu$  italicized, KeV]  
**TC14** Reference formatting: missing info added, DOI/URL/site name added or corrected

**Codes referring to Use of Template**

**UT00** General problems with template usage  
**UT01** Template not used or parameter change; Bounding Box wrong; Incorrect column and/or  $\mu$  intercolumn widths; old template used  
**UT02** A4 on US or US on A4 to produce PostScript/PDF

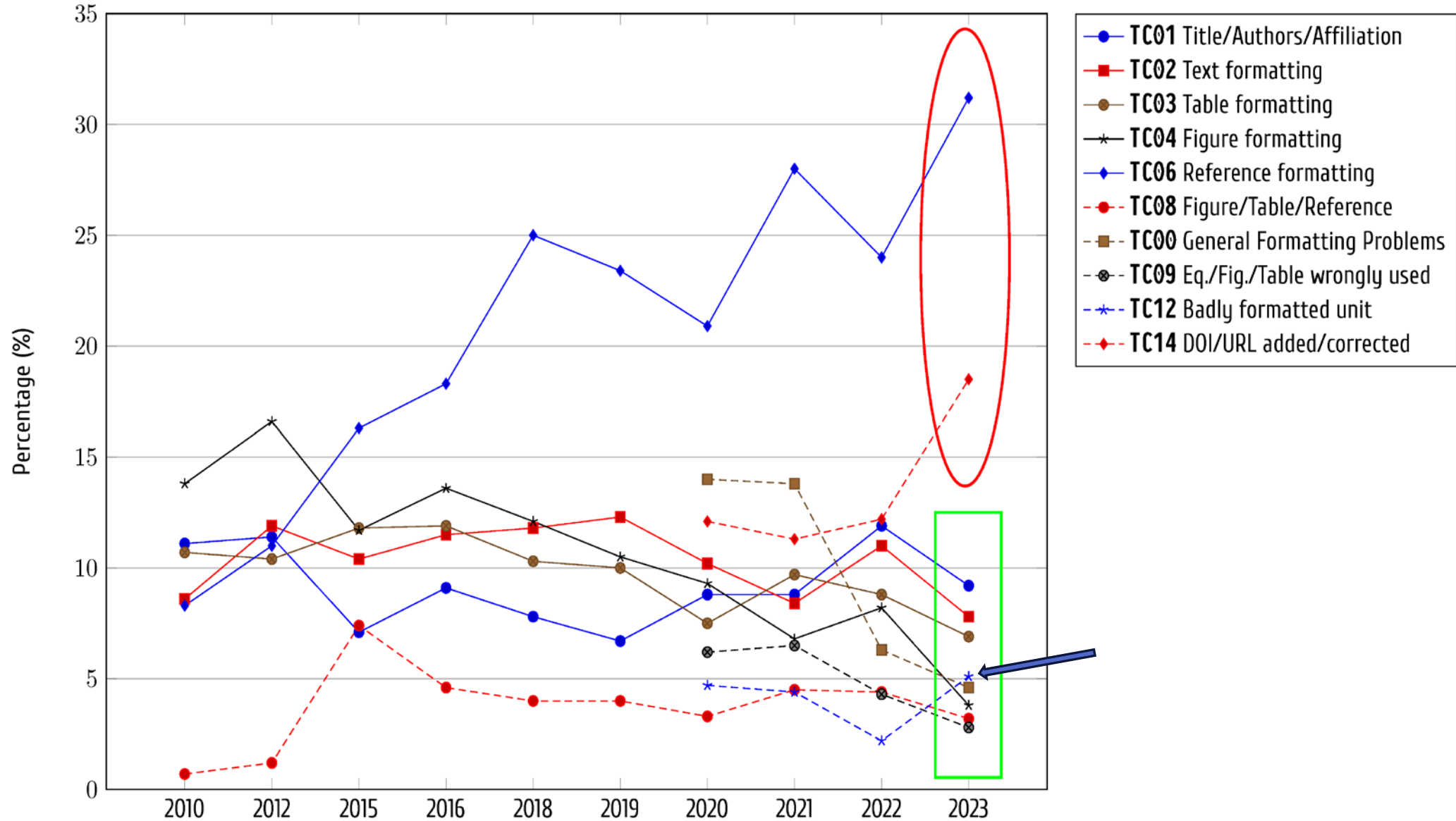
# \* Accuracy of submissions

\* JACoW maintains a list of **Error Codes** which is updated when the need arises and were used in SPMS and now also in Indico.

\* On the left the latest version from 2022-09-12 (new code **FC03** introduced for BibLaTeX/BibTeX/Biber)

# \* Accuracy of submissions

Error codes [TC01, TC02, TC03, TC04, TC06, TC08, TC00, TC09, TC12, TC14] in [%]





# \* Accuracy of submissions

- \* Better: some errors which had often been seen between 2004–2014 are nearly gone or below 2%, e.g. Font problems [FPxx], Graphics problems [TC10, FC02], Bad PDF/PS/EPS, Tearing Boxes [FC04, FC05, FC10]
- \* As we are now checking References in more detail, these errors are mentioned most often: Reference formatting [TC06], DOI problem [TC14]
- \* Code TC12 (Badly formatted units) shows up more often as e.g. spacing or linebreak between value and unit is checked.
- \* Then there are a number of problems found depending on source format:
  - Word & ODF: Wrong text flow after double wide figures and tables
  - LaTeX: Use of BibTeX without fitting style information (IEEEtran style does not agree with JACoW style requirements ⇒ BibLaTeX & Biber)
  - LuaLaTeX: missing BoldMath symbols due to wrong font & encoding selection ⇒ log checking necessary (texlogsieve, etc.)

# \* Accuracy of submissions (cont.)

- \* And still the good old formattings errors
  - \* Uppercase units in Title and Section headings
  - \* Acronyms missing their CamelCase
  - \* Figure and Table formatting, caption formatting
  - \* Figures, Tables, References not in sequence or not references in text
- \* The presumed decline of errors in Text, Table, and Figure formatting is just the compensation of the shift in more
- \* The presumed decline of errors in Text, Table, and Figure formatting is only due to the strong shift to Reference and DOI type errors. Only the errors up to a running total of ~75 % are taken into account for each conference.



## Changes in

### ❖ file types for conferences

Colors used to signify changes

**INFO** increasing

**INFO** stable/small variations

**INFO** decline/decreasing

202x (x) remote conference due to COVID

2022 (x) not published/publishable

#15:251<1278<1536

#number of conferences

:lowest number of papers (declining)

<average number of papers (stable)

<maximum number of papers

# \* Changes in file type in IPAC

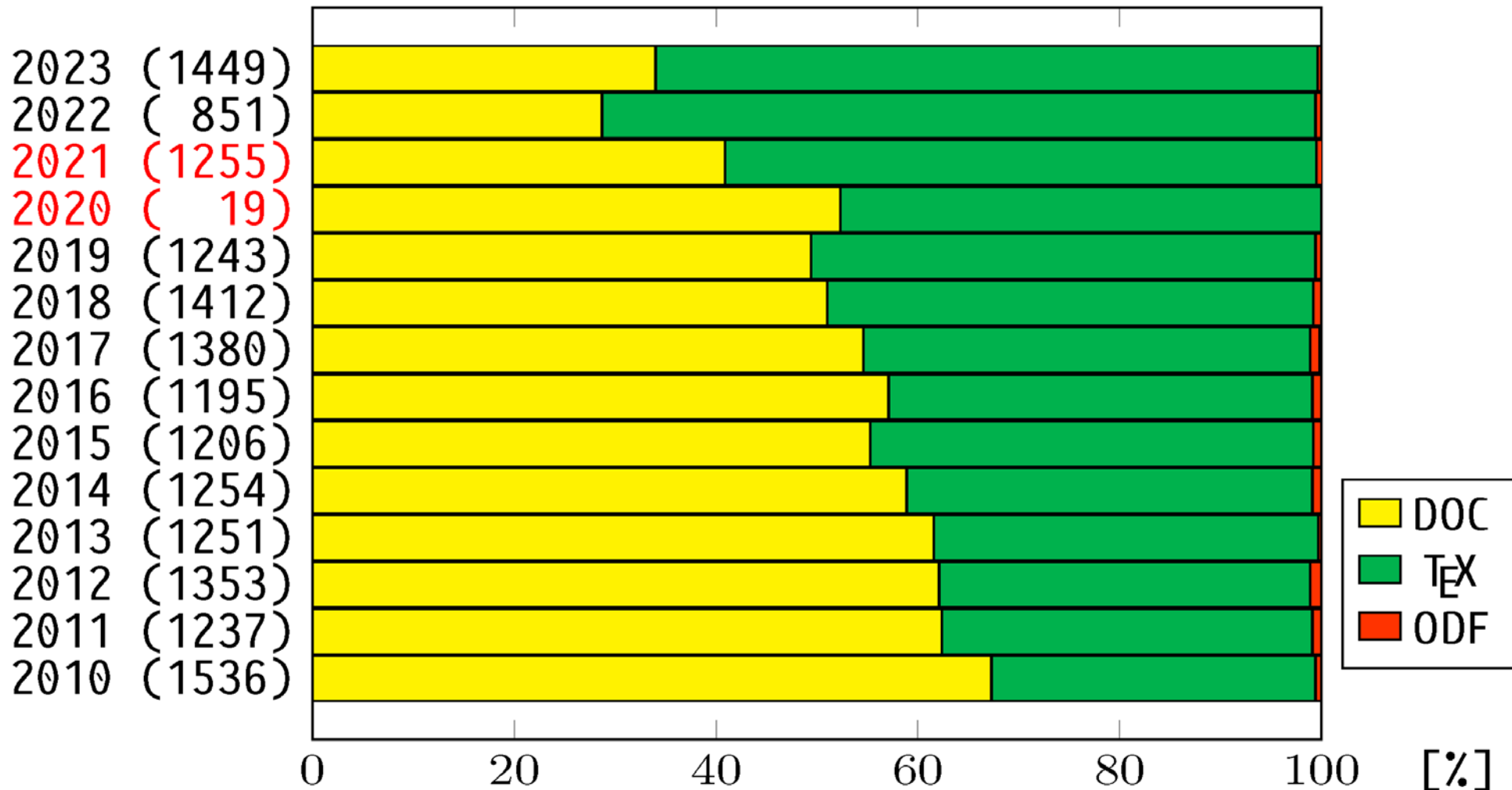


IPAC

2010–2023

#13: 851 < 1278 < 1536

TeX: 32% ↗ 68% ODF: 0.8%

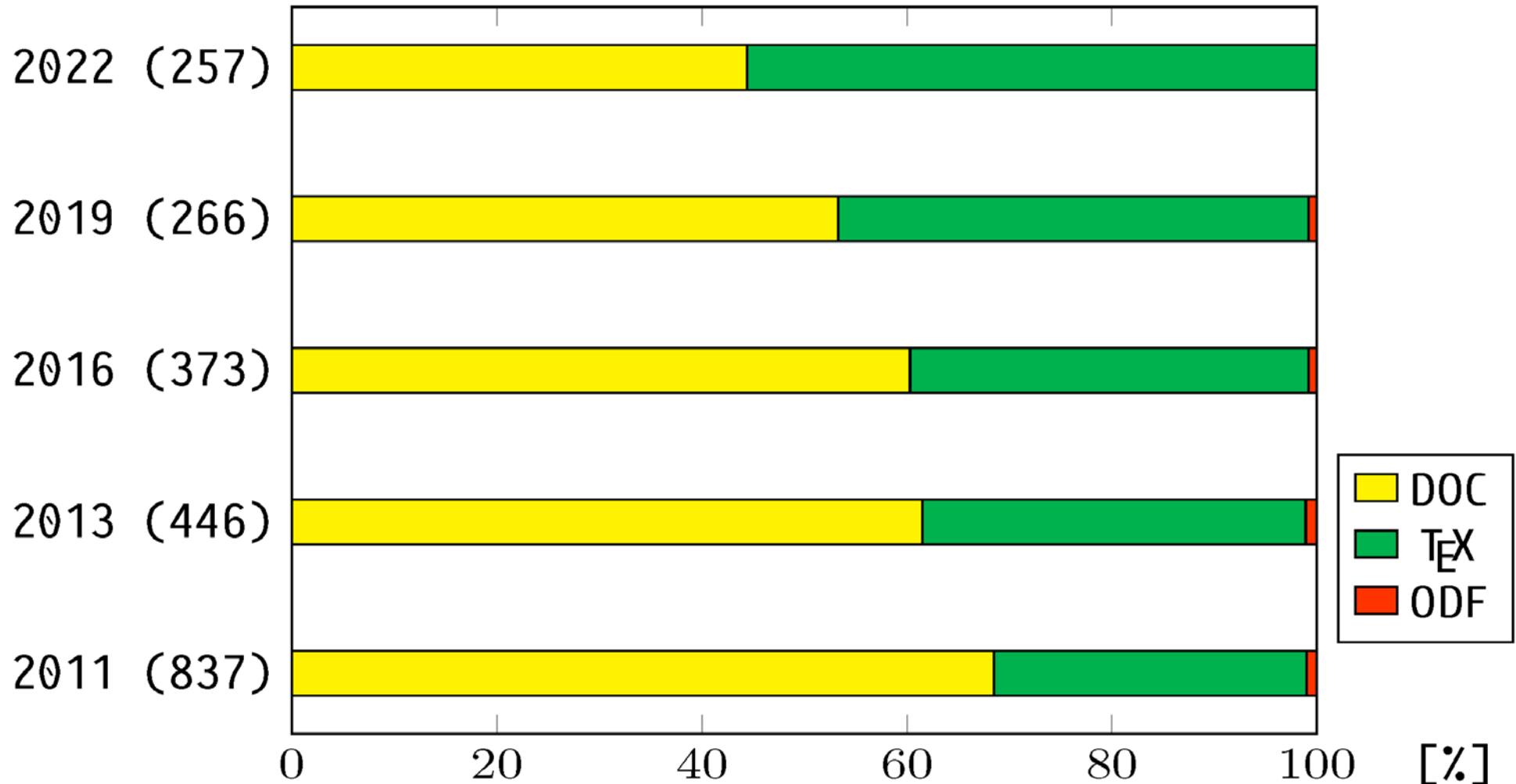


# \* Changes in file type for **NAPAC**

**NAPAC**  
2011–2022

#5: **257** < **436** < **837**

TeX: 31% ↗ **56%** ODF: **0.7%**

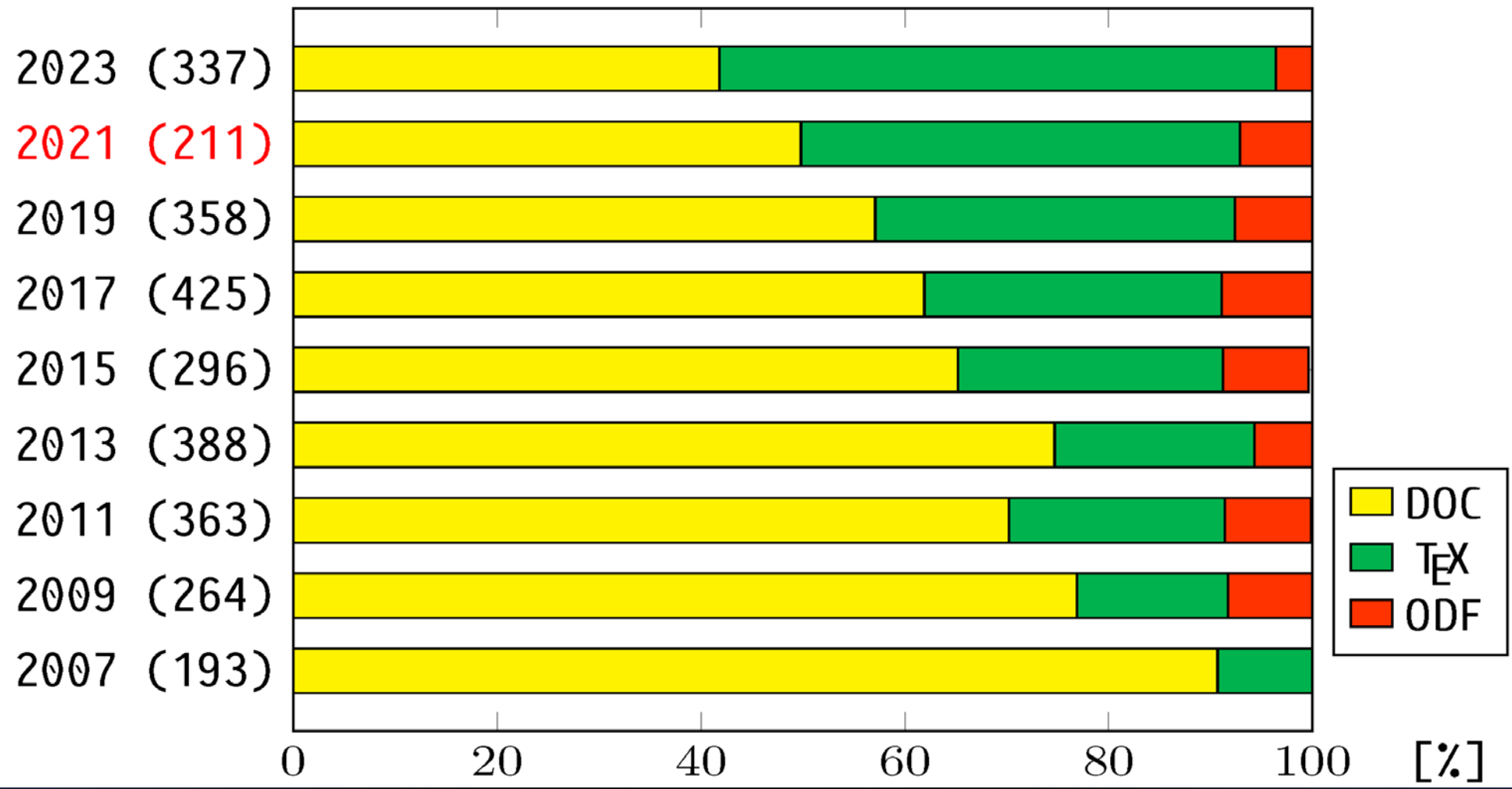


# \* Changes in file type for ICALEPCS

**ICALEPCS**  
2007–2023

#9: 193 < 315 < 425

TeX: 9% ↗ 54% ODF: 3.6%

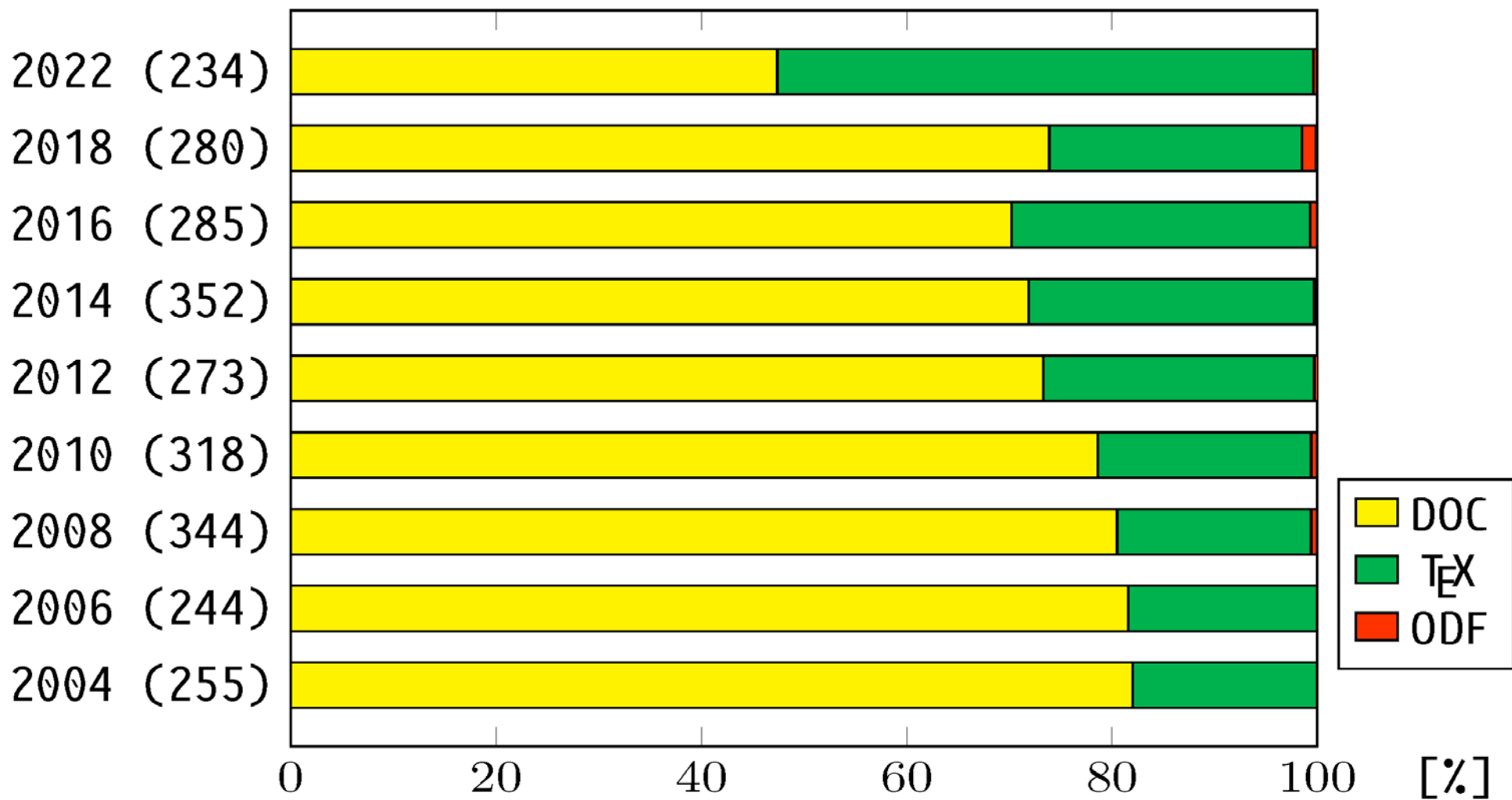


# \* Changes in file type for LINAC

**LINAC**  
2004–2022

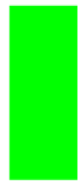
#9: 234 < 287 < 352

TeX: 18% ↗ 52% ODF: 0.6%





# \* Changes in file type for SRF

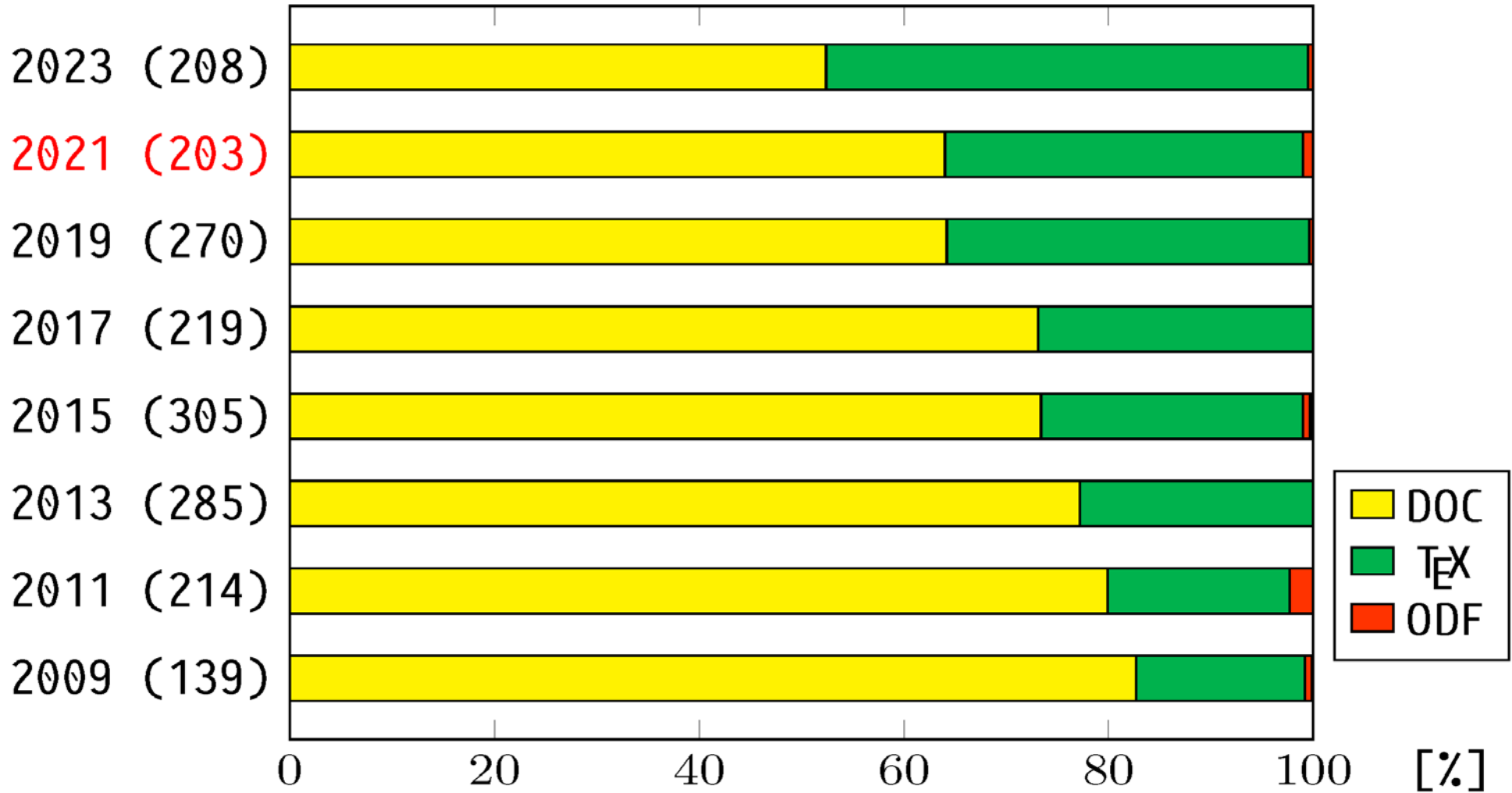


SRF

2009–2023

#8: 139 < 230 < 305

TeX: 16% ↗ 45% ODF: 0.5%

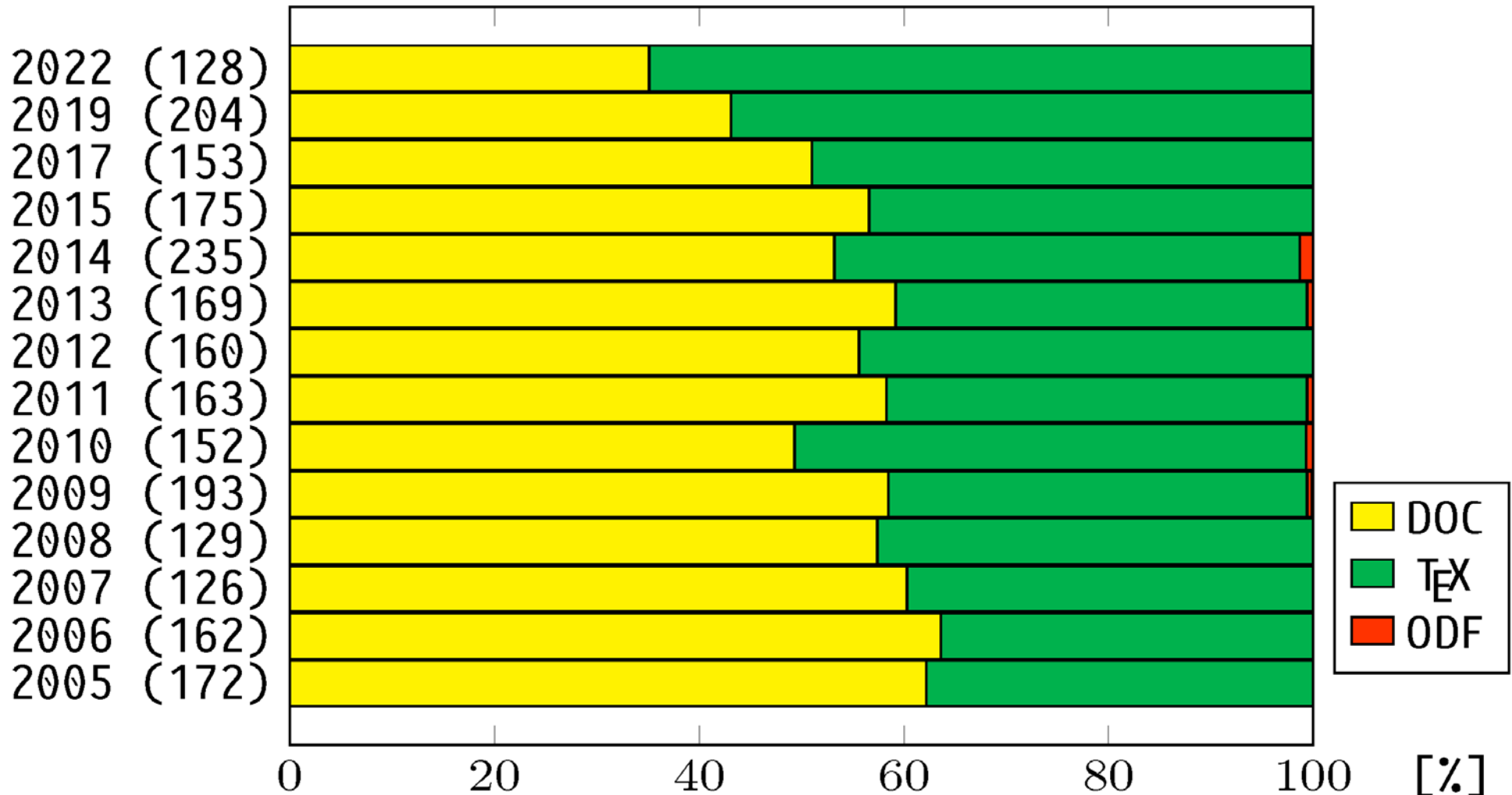


# \* Changes in file type for FEL

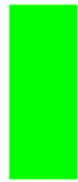
**FEL**  
2005–2022

#14: 128 < 166 < 235

TeX: 36% ↗ 65% ODF: 0.3%



# \* Changes in file type for IBIC

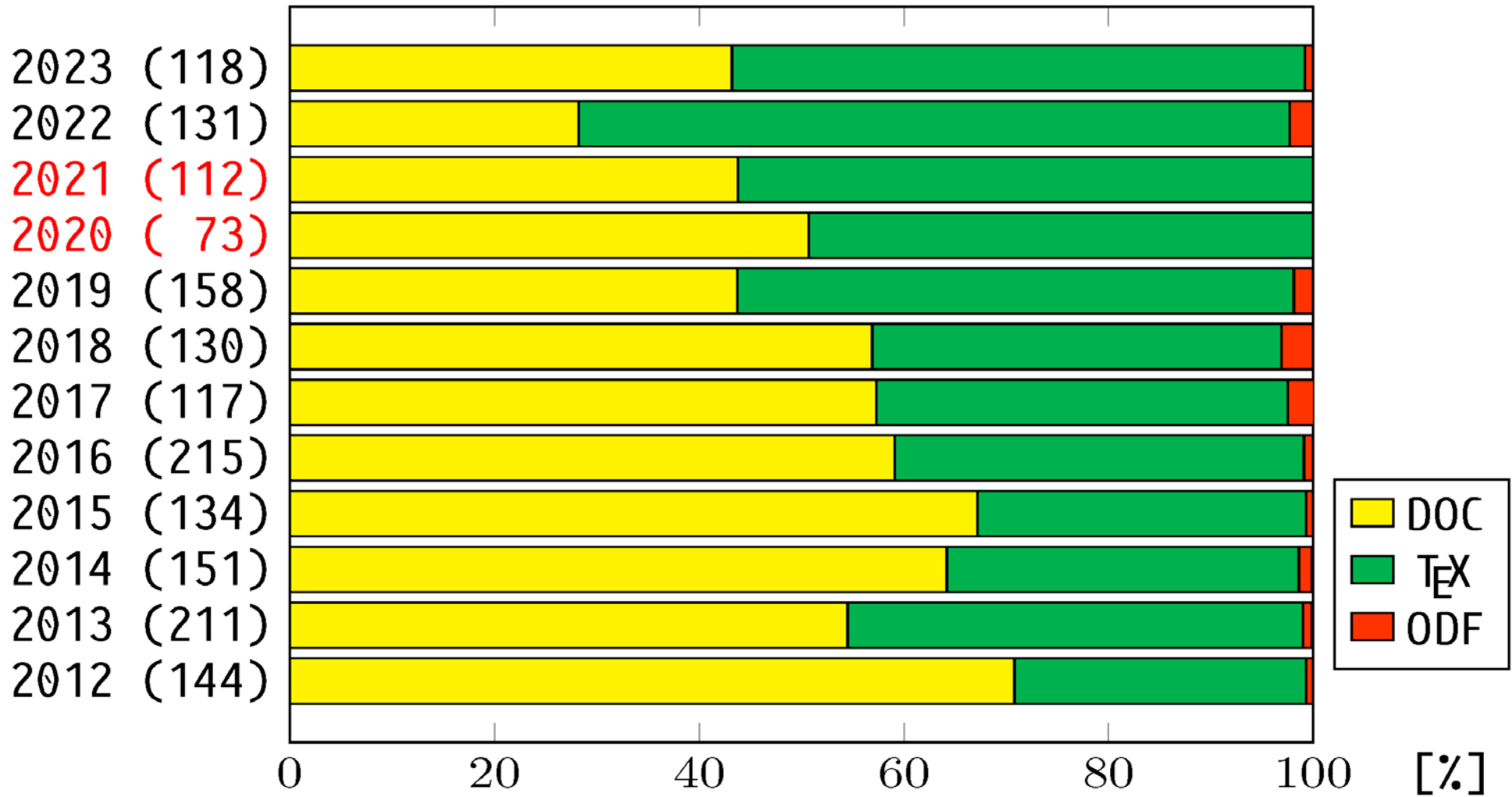


IBIC

2012–2023

#12:112<141<215

TeX: 28% ↗ 63% ODF: 1.1%

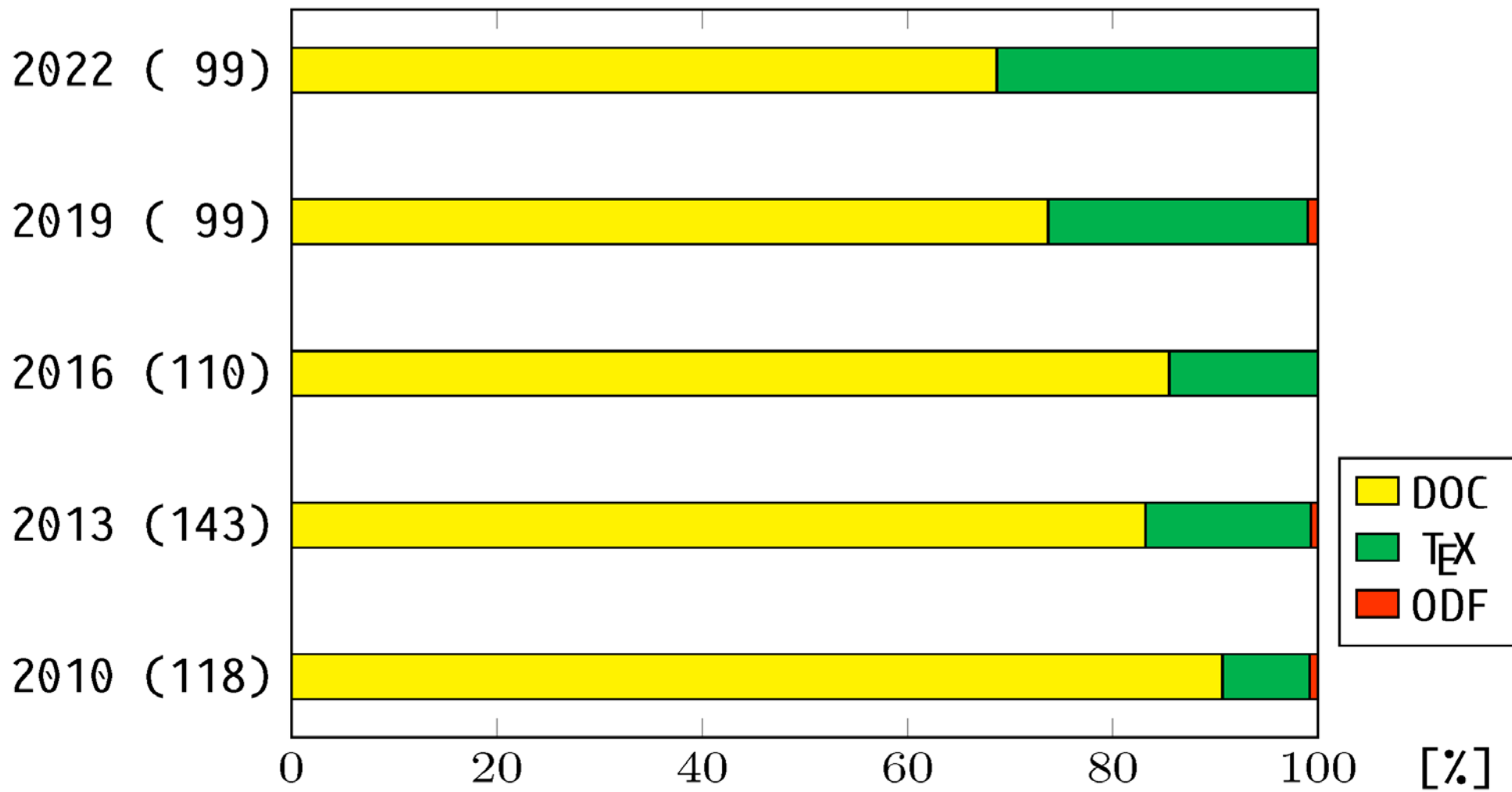


# \* Changes in file type for Cyclotrons

**Cyclotrons**  
2010–2022

#5: 99 < 114 < 143

TeX: 9%  $\rightsquigarrow$  30% ODF: 0.6%

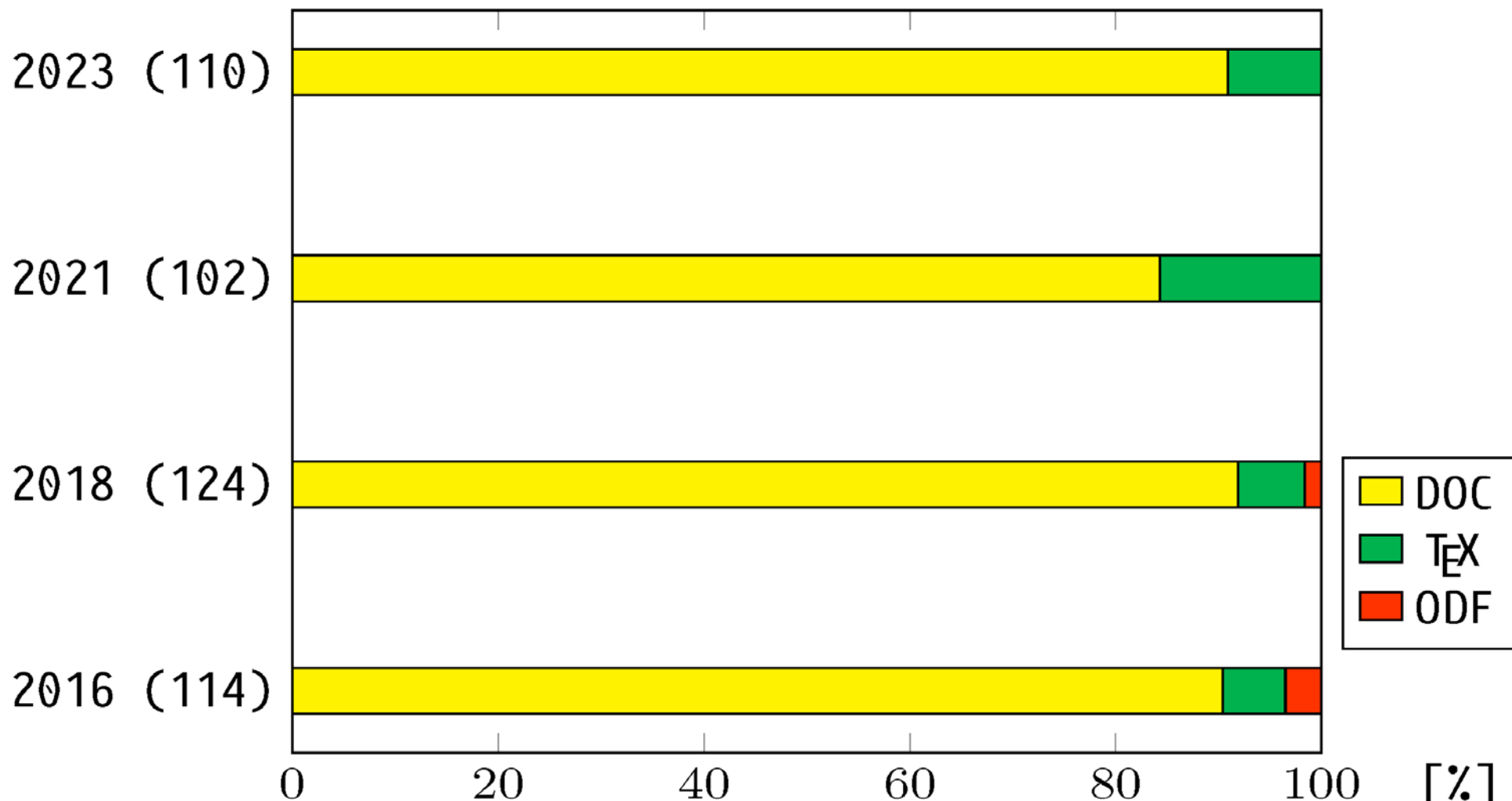


# \* Changes in file type for MEDSI

**MEDSI**  
2016–2023

#4: 102 < 113 < 124

TEX: 6%  $\rightsquigarrow$  9% ODF: 1.3%





# \* Changes in file type for HB

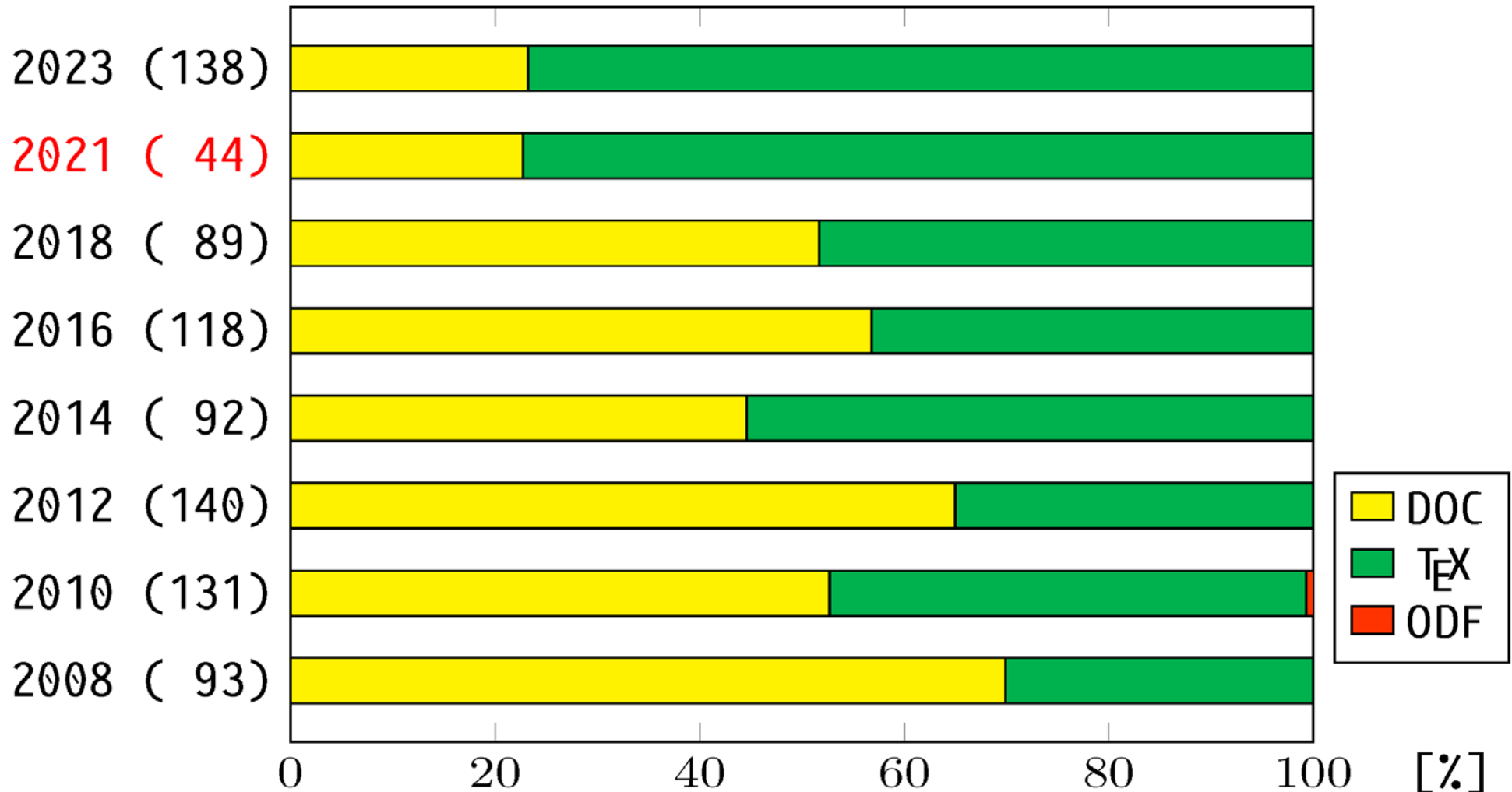


HB

2008–2023

#8: 44 < 101 < 140

TeX: 28% ↗ 76% ODF: 0.0%

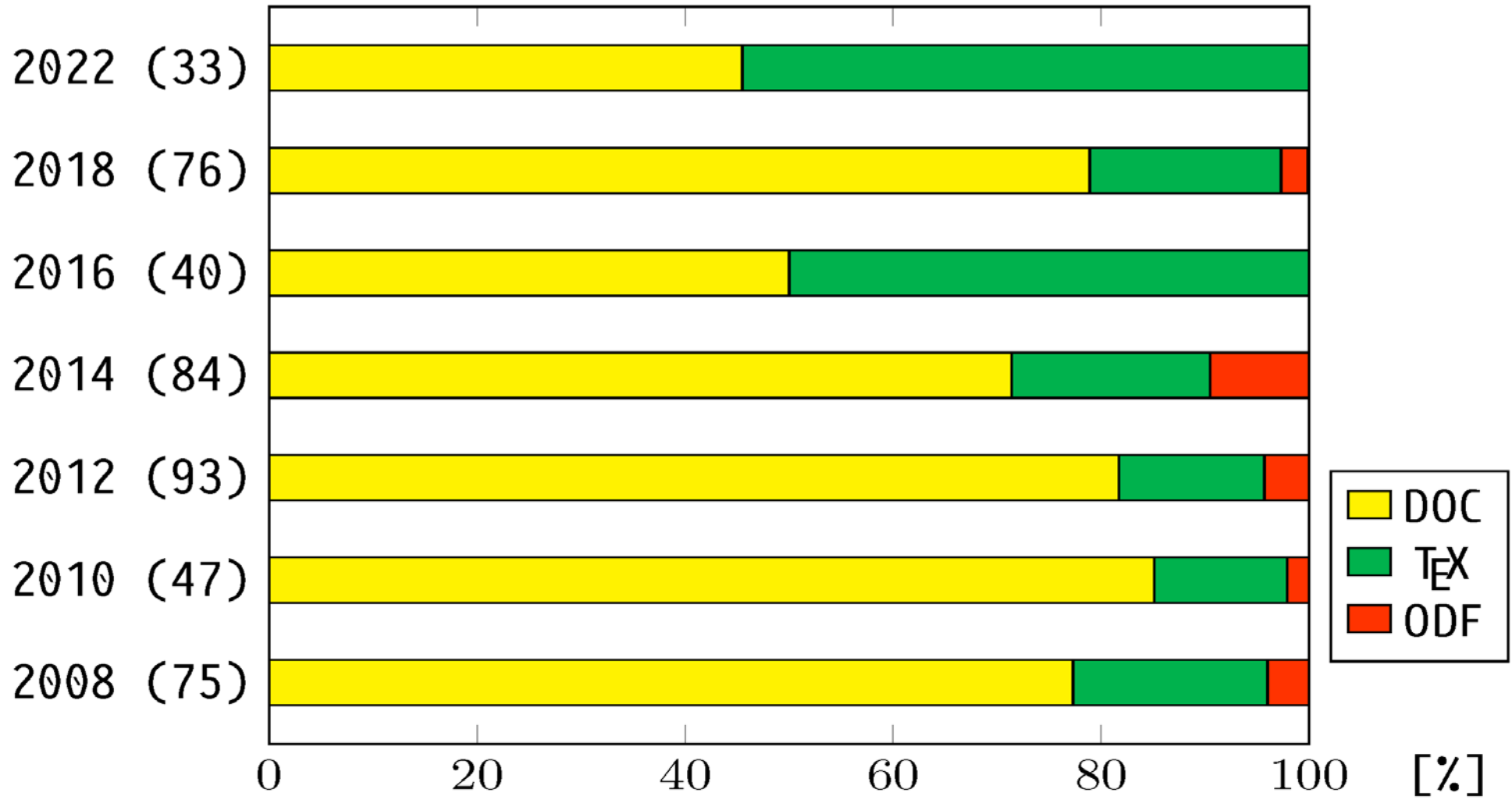


# \* Changes in file type for PCaPAC

**PCaPAC**  
2008–2022

#7: **33** < **69** < **93**

$\text{T}_{\text{E}}\text{X}$ : **~28%** ODF: **3.2%**

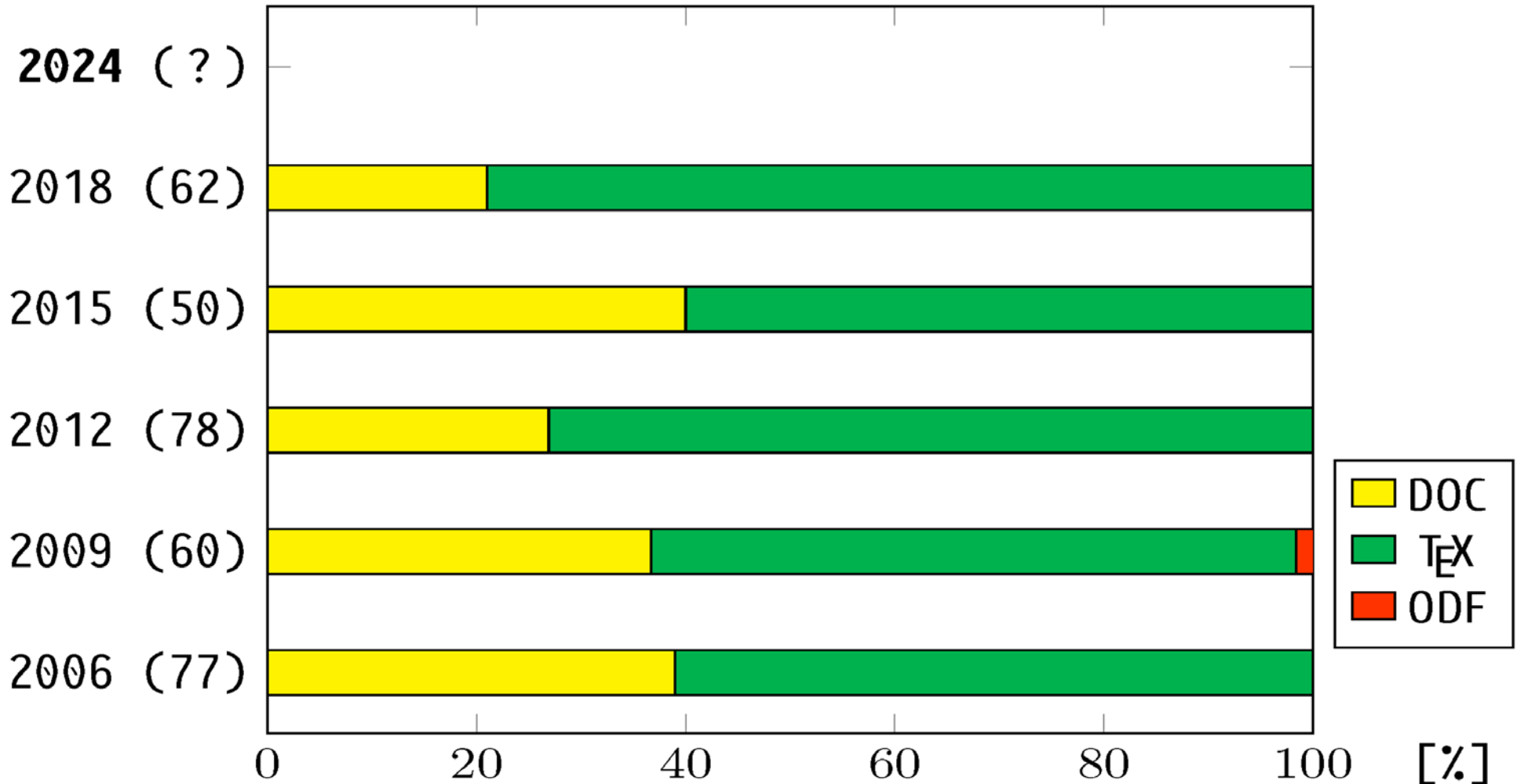


# \* Changes in file type for ICAP

**ICAP**  
2006–2018

#5: 50 < 65 < 78

TEX: 61%  $\rightsquigarrow$  79% ODF: 0.3%

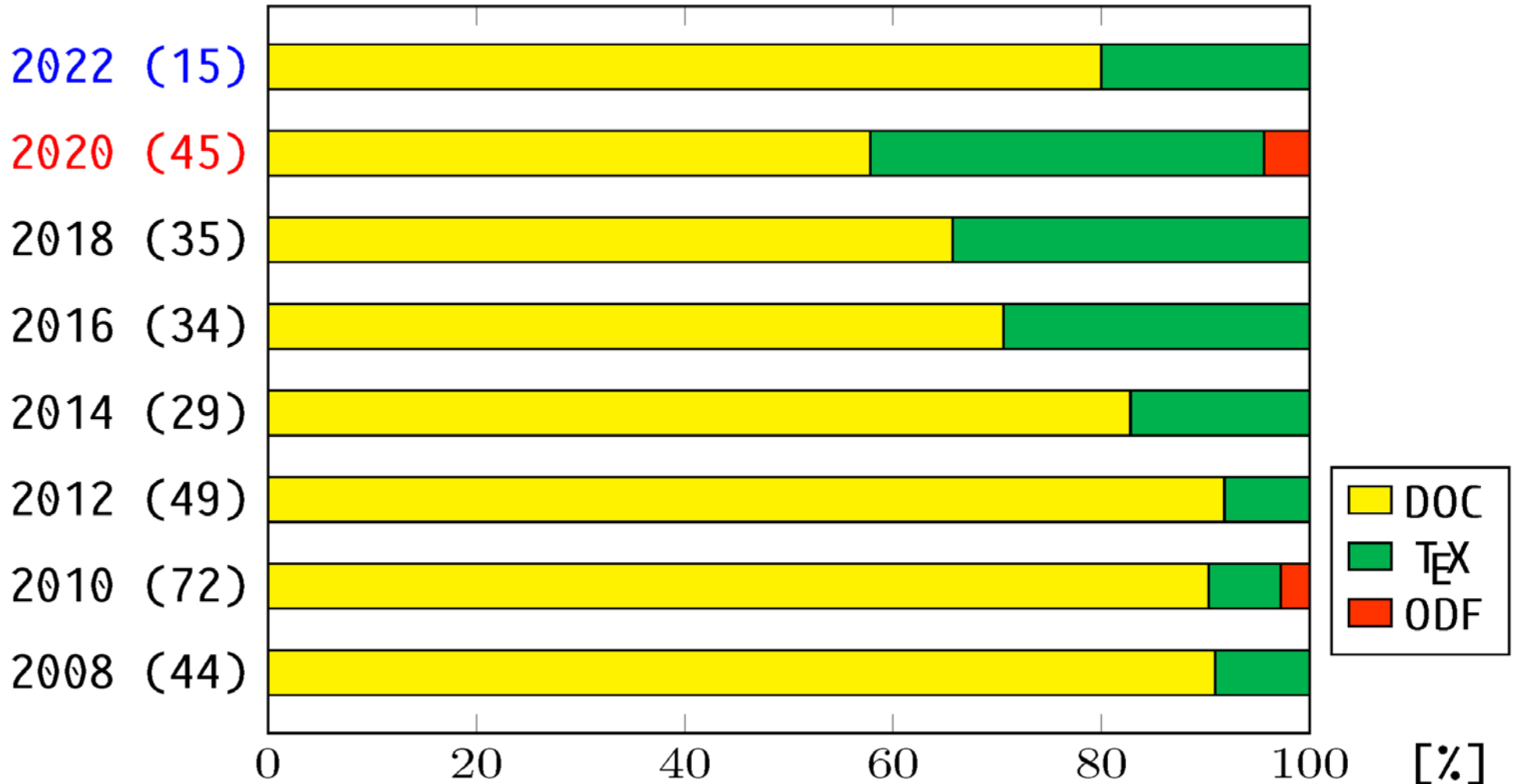


# \* Changes in file type for ECRIS

**ECRIS**  
2008–2022

#8: 15 < 39 < 72

TeX: 8%  $\rightsquigarrow$  39% ODF: 0.2%

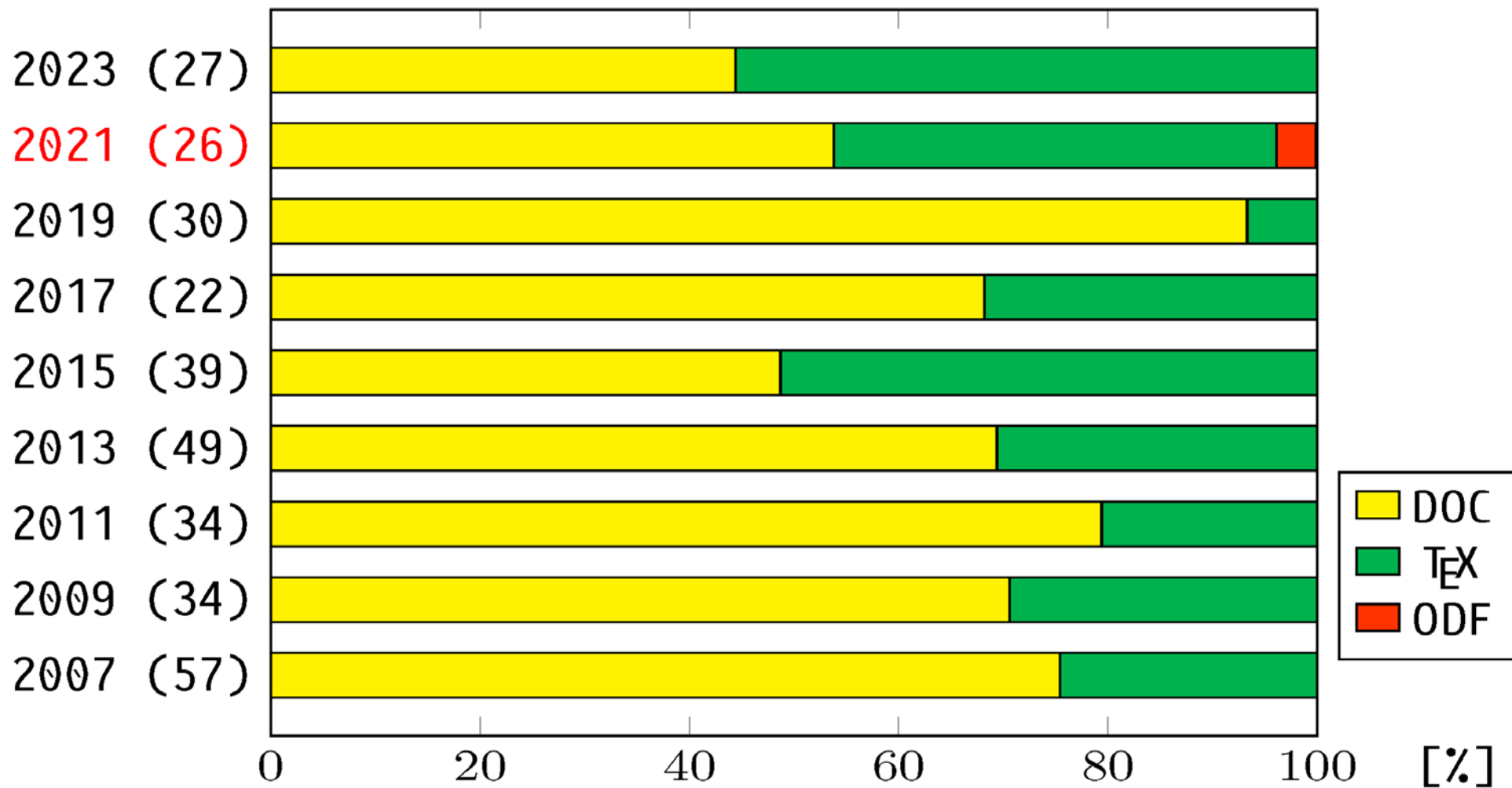


# \* Changes in file type for COOL

**COOL**  
2007–2023

#9:22<37<57

TEX: 7%  $\rightsquigarrow$  50% ODF: 0.3%







**JACOWV.org**

\* Questions?