

UC Libraries  
Shared Print

JACS 6 Collections  
Working Group

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JACS 6 Collections Analysis Overview for the Shared Print Strategy Team  
February 2021

# Executive Summary

Between December of 2020 and February of 2021, the JACS 6 Collections Working Group reviewed the University of California Libraries' print serials holdings and identified collections priorities and criteria for JACS 6.

Serials holdings from the following OCLC symbols were included in the analysis:

UC Berkeley (CUY)	UC San Diego (CUS)
UC Davis (CUV)	UC Los Angeles (CLU)
UC Davis Health Sciences (CUX)	UC Santa Barbara (CUT)
UC San Francisco (CUN)	UC Riverside (CRU)
UC Santa Cruz (CUZ)	UC Northern Regional Library Facility (ZAP)
UC Irvine (CUI)	UC Southern Regional Library Facility (ZAS)

The UC instance of the AGUA collections analysis tool was used to normalize UC's data with the Ulrich's XML data service and divide eligible journal backfiles into title categories.

- Title Category 1 (print titles with secure, digital surrogates -- e.g. Portico, CLOCKSS)
- Title Category 3 (print titles that are electronically indexed/abstracted with some electronic full-text availability)
- Title Category 4 (print titles that are electronically index/abstracted with no full-text availability)
- Title Category 5 (print only titles)
- Title Category 6 (JSTOR titles)

The 2021/2022 dataset identified 584,000 unique, eligible volumes for JACS 6. In order to narrow down the list of high quality titles to meet the target 20,000 volumes to be archived in JACS 6, the Shared Print Strategy Team's Collections Working Group identified the following priorities for JACS 6:

- The primary objective for JACS 6 is consolidation of duplicated titles and facilitating space reclamation.
- The Shared Print Strategy Team recommends soliciting title nominations from the Common Knowledge Groups (CKGs) to identify titles of high value to librarians and researchers.
- The Shared Print Strategy Team recommends identifying title lists which, by virtue of persistent electronic availability or growing restrictions on electronic access, are optimal candidates for either the deduplication services or preservation protections available through JACS.
- WEST archived titles (with the exception of JSTOR) will continue to be excluded from candidacy for JACS.<sup>1</sup>

The criteria outlined in this summary reflect JACS 6 priorities and are intended for use in JACS 6 only. Criteria for future JACS might reflect different priorities. The resulting JACS title list, totaling 20,040 volumes across 413 journal backfiles, reflect a broad range of subject areas, and holdings for the selected titles are widely distributed among the UC campuses. The JACS 6 title list is evenly divided between the RLFs.

## JACS 6 Collections Working Group

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<sup>1</sup> The assumption being that we do not intend to prioritize storage capacity for titles already retained as part of UC's partnership in WEST. JSTOR, given UC's specific role as a JSTOR archiving institution, is a different question. Historically, UC has not participated in archiving JSTOR on behalf of WEST.

## JACS 6 Collections Analysis Overview

The JACS 6 Collections Working Group (JACS 6 CWG) was charged with preparing a title list totaling approximately 20,000 volumes for the 2021-2022 campaign. The AGUA collections analysis tool identified 584,000 unique, eligible volumes for JACS 6 (see Table 1).

Journal Families	Estimated Volumes
21,207	584,000

Table 1. Unique Candidate Journal Families for JACS 6 with Estimated Volumes

Unique Journals Per Overlap Level												
	1	2	3	4	5	6	7	8	9	10	11	Grand Total
<b>Title Category 1</b>	532	217	72	34	15	8	3	1	3	2	--	<b>887</b>
<b>Title Category 3</b>	1,158	746	306	141	70	37	22	11	12	8	--	<b>2,511</b>
<b>Title Category 4</b>	1,494	1,344	1,001	703	333	140	82	40	20	8	--	<b>5,165</b>
<b>Title Category 5</b>	4,716	3,202	1,470	776	350	151	80	22	6	3	--	<b>10,776</b>
<b>Title Category 6</b>	136	137	178	213	238	262	266	223	143	64	8	<b>1,868</b>
<b>TOTALS</b>	<b>8,036</b>	<b>5,646</b>	<b>3,027</b>	<b>1,867</b>	<b>1,006</b>	<b>598</b>	<b>453</b>	<b>297</b>	<b>184</b>	<b>85</b>	<b>8</b>	<b>21,207</b>

Table 2. Overlap Levels per Title Category (color scale formatted by overlap level, i.e., where overlap is 1 the largest number of journals fall into Title Category 5, and where overlaps is 7 the largest number of journals fall into Title Category 6)

	Title Category 1		Title Category 3		Title Category 4		Title Category 5		Title Category 6			
Summary by Campus	Total Eligible TC1 Journal Families Held	TC1 Est. Volumes*	Total Eligible TC3 Journal Families Held	TC3 Est. Volumes*	Total Eligible TC4 Journal Families Held	TC4 Est. Volumes*	Total Eligible TC5 Journal Families Held	TC5 Est. Volumes*	Total Eligible TC6 Journal Families Held	TC6 Est. Volumes*	Total Eligible JFs	Total Eligible Est. Volumes*
CLU (UC Los Angeles)	261	4,049	793	12,026	2,519	50,728	3,628	58,949	1,527	34,878	8,728	160,630
CRU (UC Riverside)	44	531	198	4,100	647	10,845	957	9,158	1,210	41,841	3,056	66,475
CUI (UC Irvine)	95	1,043	366	5,895	755	10,259	1,274	9,340	1,013	19,962	3,503	46,499
CUN (UC San Francisco)	25	431	77	1,313	169	2,885	79	825	151	4,881	501	10,335
CUS (UC San Diego)	44	587	593	7,354	936	14,690	1,049	11,396	478	6,581	3,100	40,608
CUT (UC Santa Barbara)	72	950	440	7,370	1,132	17,519	1,995	18,622	1,015	24,536	4,654	68,997
CUV (UC Davis)	137	1,877	581	9,599	925	16,454	2,169	27,365	1,503	50,533	5,315	105,828
CUX (UC Davis, Health)	89	1,168	95	2,079	309	4,802	437	3,923	154	5,028	1,084	17,000
CUY (UC Berkeley)	591	8,538	1,916	30,831	4,137	82,900	6,657	86,059	2,178	52,940	15,479	261,268
CUZ (UC Santa Cruz)	12	84	72	1,552	127	1,531	68	715	778	17,947	1,057	21,829
ZAP (UC NRLF)	282	1,538	1,742	19,137	4,176	52,826	5,886	47,001	2,646	42,625	14,732	163,127
ZAS (UC SRLF)	189	2,063	939	15,550	3,142	60,187	4,612	50,678	2,579	86,177	11,461	214,655
<b>Grand Total</b>	<b>1,841</b>	<b>22,859</b>	<b>7,812</b>	<b>116,806</b>	<b>18,974</b>	<b>325,626</b>	<b>28,811</b>	<b>324,031</b>	<b>15,232</b>	<b>387,929</b>	<b>72,670</b>	<b>1,177,251</b>

\*Estimated volumes reflects data field 'range for ISSN.'

Table 3. Eligible Journal Families & Volumes by Campus (color scale formatted by measure by campus, i.e., the largest portion of UC Irvine's journals fall into Title Category 5 but the largest number of their volumes are in Title Category 6)

### Priorities

The JACS 6 CWG aimed to compile a list that offered significant and wide-spread opportunities for deduplication of campus collections with the goal of reclaiming space to be used for other library and campus priorities. Consideration was given to JSTOR journals that are retained in few to no Rosemont partner programs; however, due to the considerable progress made across the national shared print community to archive journals that have been digitized by JSTOR, the CWG also prioritized identifying journals with fewer or less reliable electronic access points that represent broad opportunities for space reclamation and which could help fill gaps in the wider collective shared print collection. Additionally, UC Libraries' Common Knowledge Groups (CKG) were invited to nominate eligible titles in their domain area for consideration (see [CKG title nominations](#) section below for more information about this process). See Table 4 for the scenarios the CWG adopted to create the final JACS 6 title list.

Purpose of Scenario	Title Categories	Duplication in UC	Range Across UC (estimated volumes)	Rosemont Retentions
Prioritize JSTOR titles that have fewer than 3 copies retained by Rosemont partner programs (as registered in PAPR)	6	3+	n/a	0-2
Prioritize high overlap titles where SRLF is the proposed archiver	1, 3, 4, 5	7+	24+	0-1
Prioritize high overlap titles where NRLF is the proposed archiver	1, 3, 4, 5	7+	15+	0-2
Title nominations submitted by CKGs	1, 3, 4, 5, 6	n/a	n/a	n/a
Final adjustments	<ul style="list-style-type: none"> <li>Accept title nominations that have 3 or more copies retained by Rosemont partners (4 journal families)</li> </ul>			

Table 4. JACS 6 combined scenarios with final adjustments

### Considerations and recommendations

#### *JSTOR with few Rosemont-retained copies*

Starting in JACS 5, the CWG has prioritized materials included in the JSTOR title list (Title Category 6) that have few or no copies retained by the Rosemont Shared Print Alliance partner programs. This Title Category sees significantly higher duplication in UC than do the other title categories; additionally, the average number of volumes per journal family in this Title Category is considerably higher than the other Title Categories (see Table

## JACS 6 Title List: Criteria

5). However, these same characteristics that make the journals found in Title Category 6 attractive for the JACS program are also attractive to other regional shared print programs; as such, these journals see much higher levels of overlap among the Rosemont Alliance, and any efforts to capture these titles for JACS would mean duplicating effort nationally.

Title Category	Count of Journal Families	Sum of Range across UC	Average of Duplication in UC	Average of Depth of Backfile per JF	Average of Rosemont Retentions
1	887	16,189	1.71	18.25	0.42
3	2,511	68,202	2.04	27.16	0.53
4	5,165	175,843	2.64	34.05	0.59
5	10,776	213,178	2.05	19.78	0.18
6 (JSTOR)	1,868	110,588	5.47	59.20	4.53
<b>Grand Total</b>	<b>21,207</b>	<b>584,000</b>	<b>2.48</b>	<b>31.69</b>	<b>0.72</b>

*Table 5. Summary and comparison of average duplication, average depth of backfile, and average number of Rosemont retention copies of JACS 6-eligible materials, by Title Category*

In order to minimize duplication of effort while still leveraging the high systemwide duplication and average depth of backfile, the CWG considered a narrow list of Title Category 6 journal families that have medium to high systemwide duplication but have not yet reached the target number of copies retained by the Rosemont Alliance partner programs.

*Area for future consideration: Consider the inclusion in future JACS campaigns of these highly duplicated JSTOR titles within the context of emerging UC guidelines for how we leverage our shared print networks. Consider also the demonstrated value UC has placed on building and maintaining a print backup of the JSTOR title list.*

### *High overlap titles targeted to Proposed Archiver RLF*

The JACS program aims to balance proposals between the RLFs, targeting a total of 10,000 volumes to archive at each location each year. Previous analyses have required rebalancing proposals so that some journal families that are more prevalent in the North are ultimately archived by SRLF, and some journal families that are more prevalent in the South are ultimately archived by NRLF. The JACS 5 title list included a scenario that specifically targeted journal families for which both RLFs have holdings and assigned them to NRLF in order to provide SRLF with future deduplication opportunities.

The JACS 6 analysis takes a different approach, bringing this rebalancing work into the initial development of scenarios to target proposals by their originally proposed archiver RLF. This approach acknowledges the differences in regional collection characteristics and supports creating algorithmic scenarios that provide broad benefits to the campuses and minimizes the shipping requirements between the campuses and the RLFs.

## JACS 6 Title List: Criteria

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### *CKG title nominations*

As recommended by the JACS 4 Collections Working Group in 2018 and initiated by the JACS 5 Collections Working Group in 2020, the UC Libraries' Common Knowledge Groups (CKGs) were invited to review domain title lists and make nominations for journals to be included on the JACS 6 title list. Three CKGs expressed interest in participating in this process and were provided title lists; all three CKG submitted title nominations, though with varying levels of engagement with the review lists. Based on the JACS 5 CWG's decisions while vetting title nominations and the assumption that CKG members have limited bandwidth at this time to review and nominate titles, the review lists provided to the CKGs focused on journal families with medium to high systemwide overlap. One title list was returned with nominations selected; the other two CKGs provided external title lists which were compared against the JACS 6 data set to identify overlap. The final JACS title list includes 58 journal families nominated by librarians, representing an estimated 1,851 total volumes to be archived. Of these, four journal families were found to have three or more copies retained by Rosemont Alliance partner programs; because they were nominated by bibliographers, these journal families were included on the final title list as being of high importance to scholarship in UC and therefore appropriate for retention under the JACS program.

### *Final outcomes*

JACS 6 Scenario	Total Journal Families Selected	Total Estimated Volumes Selected	Average Duplication Level
Title nomination	58	1,851	5.16
NRLF TC1, 3, 4, 5	72	3,836	7.53
SRLF TC1, 3, 4, 5	80	5,069	7.50
Low Rosemont TC6	203	9,284	4.54
<b>Grand Total</b>	<b>413</b>	<b>20,040</b>	<b>5.72</b>

*Table 6. Resulting Journal Families/Volumes*

## Distribution by RLF and Holdings at the Campuses

The JACS 6 title list is evenly distributed between the RLFs (see Table 7). If an RLF already holds the deepest backfile in the UC system, it is assigned that title automatically by the AGUA collection analysis tool. For the remaining distribution scenarios, the RLFs are assigned backfiles that they already hold in part. If both RLFs hold part of a journal family, the RLF with the deepest holdings and associated, regional campus holdings is assigned the backfile. For the proposals which neither RLF contains holdings, assignments are made based on which region holds the deepest backfile. Thirty eight of the total 413 selections do not have holdings at either RLF, which amounts to an estimated 1,233 volumes for archiving.

For JACS 1 and 2, journal families with holdings at one or both of the RLFs were prioritized. JACS 3 did not actively prioritize titles based on RLF holdings. JACS 4 actively considered holdings at the RLFs as criteria, but did not exclude from proposal journal families which were not held at the RLFs. JACS 5 included a mix of approaches, prioritizing RLF holdings in one of the scenarios used to build the final title list, but ignoring the status of RLF holdings for the other scenarios. JACS 6 does not prioritize RLF holdings in any scenarios.

JACS Archivers	Journal Families	Est. Volumes	Average Duplication Level
NRLF (ZAP)	210	10,015	5.66
SRLF (ZAS)	203	10,025	5.78

*Table 7. Distribution for JACS 6 Journals by RLF*

Campus Contributor	Estimated Volumes (including duplication)
UC Los Angeles (CLU)	9,339
UC Riverside (CRU)	4,453
UC Irvine (CUI)	3,821
UC San Francisco (CUN)	261
UC San Diego (CUS)	3,881
UC Santa Barbara (CUT)	6,217
UC Davis (CUV)	5,919
UC Davis Health Sciences (CUX)	598
UC Berkeley (CUY)	12,035
UC Santa Cruz (CUZ)	1,197
NRLF (ZAP)	7,905
SRLF (ZAS)	9,991

*Table 8. Estimated Volumes per Campus Contributor (including duplicates)*



## JACS 6 Title List: Impacts

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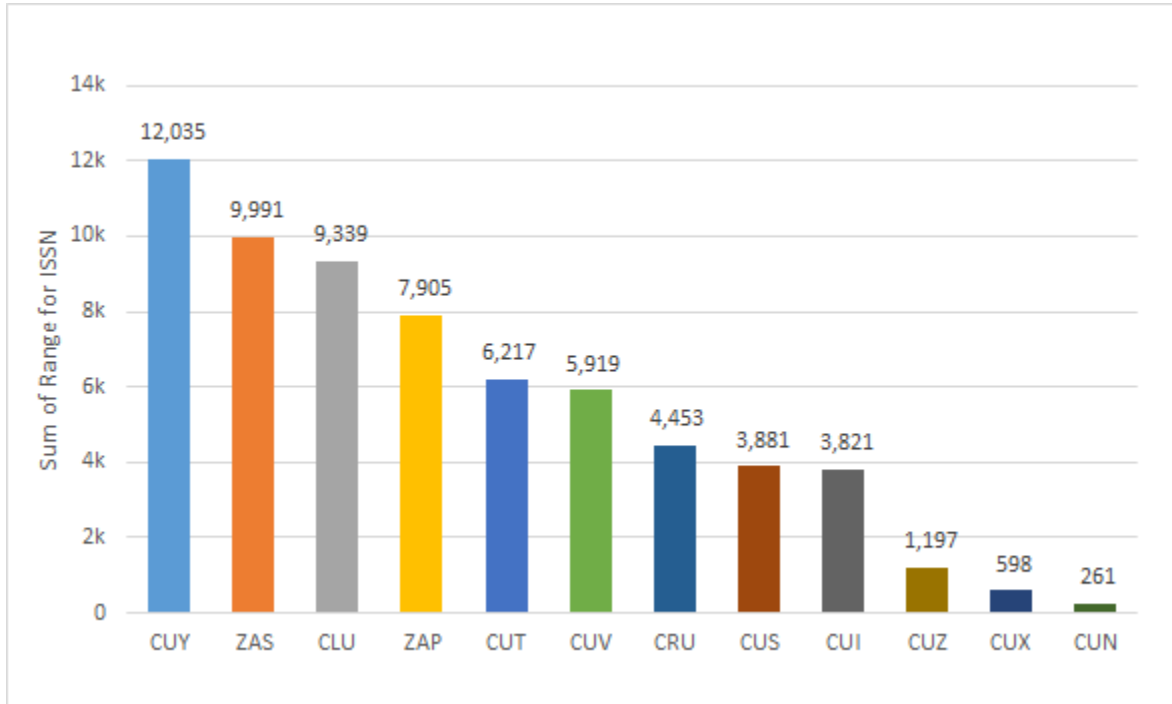


Figure 1. Estimated Volumes per Campus Contributor (including duplication) - in descending order

Title list characteristics

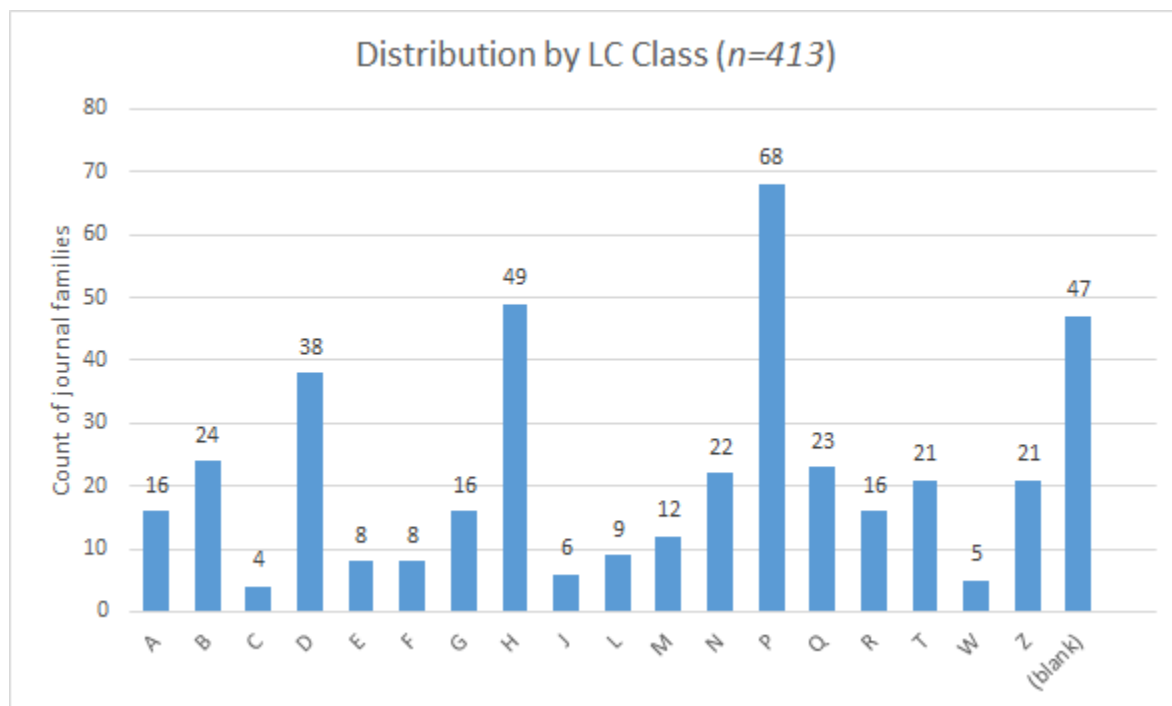


Figure 2. Unique journal families by LC Class

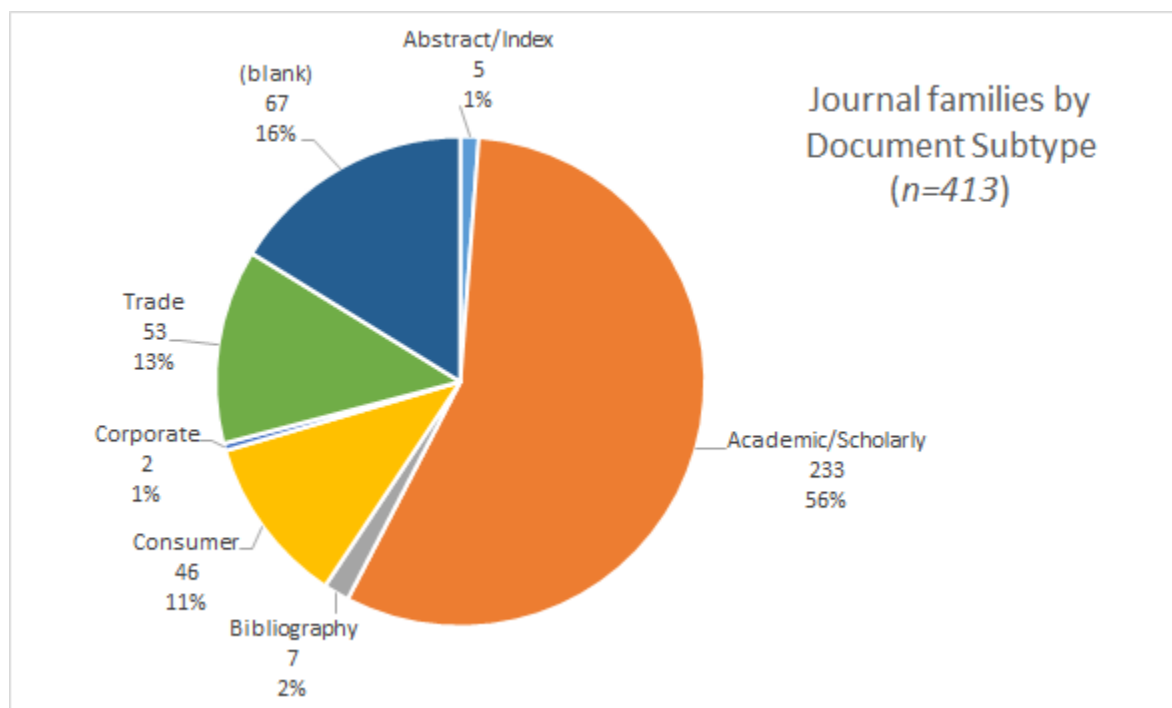


Figure 3. Journal families by Document Subtype

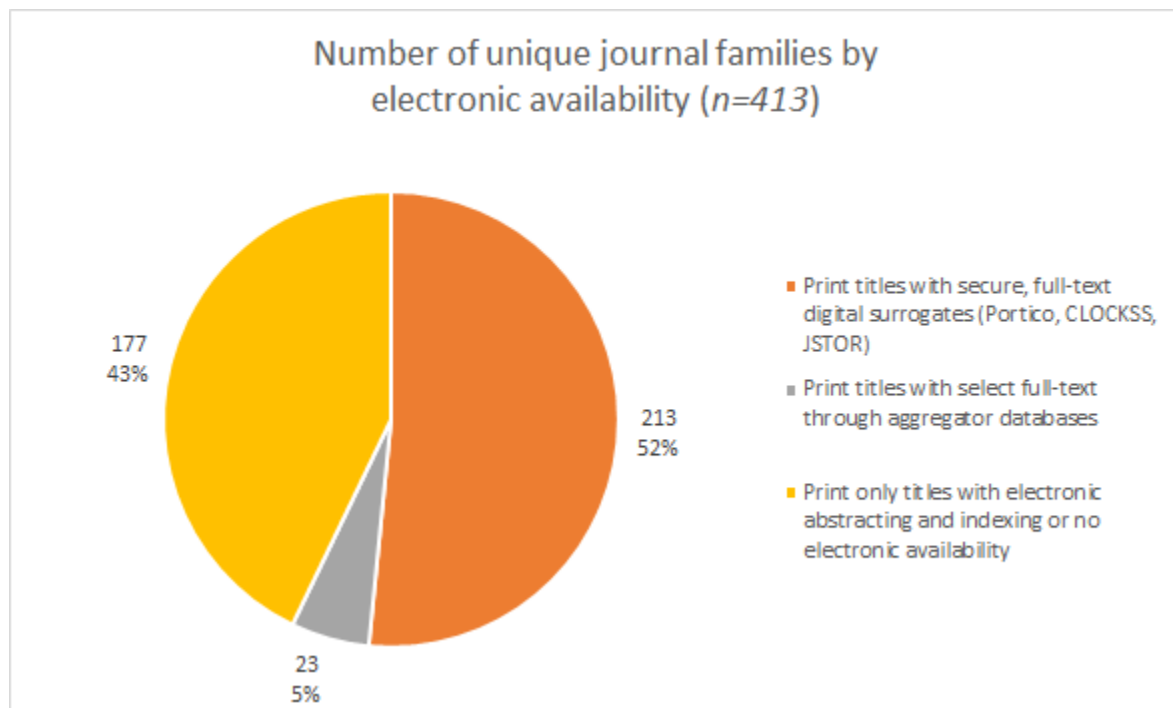


Figure 4. Journal families by electronic availability

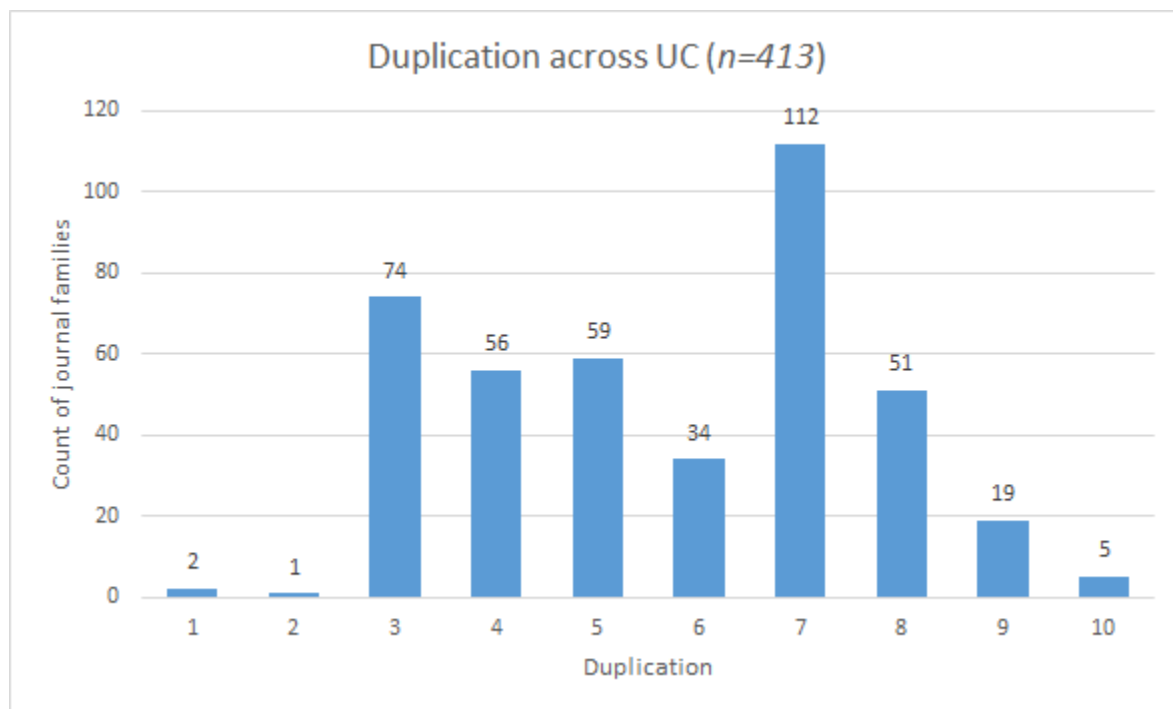


Figure 5. Distribution by duplication level