

UC Libraries  
Shared Print

JACS 5 Collections  
Working Group

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JACS 5 Collections Analysis Overview for the Shared Print Strategy Team  
June 2020

# Executive Summary

Between March and May of 2020, the JACS 5 Collections Working Group reviewed the University of California Libraries' print serials holdings and identified collections priorities and criteria for JACS 5.

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 2020/2021 dataset identified 664,776 unique, eligible volumes for JACS 5. In order to narrow down the list of high quality titles to meet the target 20,000 volumes to be archived in JACS 5, the Shared Print Strategy Team's Collections Working Group identified the following priorities for JACS 5:

- The primary objective for JACS 5 is consolidation of duplicated titles and facilitating space reclamation.
- The Shared Print Strategy Team recommends targeting titles represented in the recent UC purchase of Cambridge University Press electronic backfiles.
- 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 5 priorities and are intended for use in JACS 5 only. Criteria for future JACS might reflect different priorities. The resulting JACS title list, totaling 19,999 volumes across 334 journal backfiles, reflect a broad range of subject areas, and holdings for the selected titles are widely distributed among the UC campuses. The JACS 5 title list is evenly divided between the RLFs.

## JACS 5 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 5 Collections Analysis Overview

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The JACS 5 Collections Working Group (JACS 5 CWG) was charged with preparing a title list totaling approximately 20,000 volumes for the 2020-2021 campaign. The AGUA collections analysis tool identified 664,776 unique, eligible volumes for JACS 5 (see Table 1).

*Table 1. Unique Candidate Journal Families for JACS 5 with Estimated Volumes*

Journal Families	Estimated Volumes
23,517	664,776

*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 here overlaps is 7 the largest number of journals fall into Title Category 6)*

Unique Journals Per Overlap Level												
	1	2	3	4	5	6	7	8	9	10	11	Grand Total
<b>Title Category 1</b>	688	368	179	96	46	28	24	5	8	4	-	<b>1,446</b>
<b>Title Category 3</b>	1,317	892	441	198	96	43	25	13	14	10	-	<b>3,049</b>
<b>Title Category 4</b>	1,586	1,445	1,157	805	404	195	107	57	22	8	-	<b>5,786</b>
<b>Title Category 5</b>	4,814	3,285	1,538	821	391	179	99	31	7	3	-	<b>11,168</b>
<b>Title Category 6</b>	136	155	197	233	257	296	303	253	161	69	8	<b>2,068</b>
<b>TOTALS</b>	<b>8,541</b>	<b>6,145</b>	<b>3,512</b>	<b>2,153</b>	<b>1,194</b>	<b>741</b>	<b>558</b>	<b>359</b>	<b>212</b>	<b>94</b>	<b>8</b>	<b>23,517</b>

## JACS 5 Collections Analysis Overview

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)

Overview of Potential Journal Families to Contribute to SP via JACS (across campuses and RLFs)												
	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)	454	7,625	1,045	17,478	2,926	60,039	3,862	61,695	1,694	38,096	9,981	184,933
CRU (UC Riverside)	122	2,196	226	4,593	782	12,920	1,031	9,944	1,360	47,415	3,521	77,068
CUI (UC Irvine)	208	2,630	411	6,604	880	12,069	1,374	10,098	1,124	21,749	3,997	53,150
CUN (UC San Francisco)	63	1,219	82	1,441	180	3,100	81	835	161	5,190	567	11,785
CUS (UC San Diego)	207	3,322	693	8,347	1,108	17,406	1,137	12,506	503	6,856	3,648	48,437
CUT (UC Santa Barbara)	164	2,349	501	8,405	1,340	20,895	2,107	19,844	1,113	26,609	5,225	78,102
CUV (UC Davis)	245	4,066	711	11,097	1,065	18,945	2,285	28,865	1,684	57,281	5,990	120,254
CUX (UC Davis, Health)	157	2,358	124	2,708	317	4,942	461	4,118	159	5,177	1,218	19,303
CUY (UC Berkeley)	980	16,632	2,357	39,198	4,746	95,790	6,973	90,682	2,436	59,193	17,492	301,495
CUZ (UC Santa Cruz)	37	519	82	1,623	139	1,670	69	716	882	19,896	1,209	24,424
ZAP (UC NRLF)	737	8,979	2,152	23,036	4,789	59,593	6,185	50,107	2,927	46,753	16,790	188,468
ZAS (UC SRLF)	551	8,784	1,314	21,600	3,592	69,214	4,947	55,456	2,840	96,141	13,244	251,195
<b>Grand Total</b>	<b>3,925</b>	<b>60,679</b>	<b>9,698</b>	<b>146,130</b>	<b>21,864</b>	<b>376,583</b>	<b>30,512</b>	<b>344,866</b>	<b>16,883</b>	<b>430,356</b>	<b>82,882</b>	<b>1,358,614</b>

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

## JACS 5 Title List: Criteria

### Priorities

The JACS 5 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 identifying titles included in the Cambridge University Press backfile recently acquired by UC Libraries, creating opportunities to deduplicate SRLF holdings where NRLF was identified as the archiver, and identifying areas where the JACS program could help fill gaps in the wider collective shared print collection to support both local UC campus needs as well as preserve the print scholarly record. 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 5 title list.

Table 4. JACS 5 combined scenarios with final adjustments

Purpose of Scenario	Title Categories	Duplication in UC	Document Subtype
Prioritize titles included in the Cambridge University Press backfile	1, 3, 4, 5, 6	n/a	n/a
Prioritize high overlap titles held by SRLF where NRLF is the proposed archiver	1, 3, 4, 5, 6	6+	Academic/Scholarly
Prioritize JSTOR titles that have not been registered in PAPR	6	n/a	n/a
Title nominations submitted by CKG	1, 3, 4, 5, 6	n/a	n/a
Final adjustments	<ul style="list-style-type: none"> <li>Remove JSTOR/no PAPR titles that only appear at one institution</li> <li>For JSTOR/no PAPR titles with overlap of 2, remove titles that have a range of less than 15</li> <li>Accept title nominations where overlap is greater than 5</li> </ul>		

### Considerations and recommendations

#### *Cambridge University Press title list*

In July 2019 the California Digital Library (CDL) [purchased the Cambridge University Press \(CUP\) Journals Archive for systemwide access](#). This title list was identified as an ideal candidate for identifying materials for inclusion in JACS 5, as they are highly duplicated and have reliable and perpetual electronic access. Additionally, a project acting on this purchase to benefit the space needs of the UC Libraries reinforces the value of such a purchase both as a scholarly endeavor as well as a practical matter.

#### *Opportunities for deduplication of RLF collections*

The Regional Library Facilities (RLFs) have faced space shortages for many years. Policies are in place to reduce the incidence of duplication between the two facilities, but the size and siloed nature of the collections mean it is not always feasible to identify duplicates, especially within legacy collections. As the UC Libraries work towards a Systemwide Integrated Library System (SILS) which will offer greater opportunities for collection comparison between the RLFs, the JACS analysis process offers some opportunities for targeted comparison to identify overlaps in the collections. While both RLFs have limited available shelf space, the SRLF does not currently have any plans for expanding their facility, meaning that they are extremely limited in their capacity for ongoing deposits from the campuses. In order to relieve some of these space pressures within the SRLF and allow them to continue supporting campus deposits, consideration was given to identifying high overlap titles that could be archived at NRLF and create opportunities for SRLF as well as the campuses to reclaim shelf space through deposits and deduplication.

#### *JSTOR title not registered in PAPER*

The past two JACS collections analyses have intentionally de-prioritized materials included in the JSTOR title list (Title Category 6). A selection of JSTOR titles held within the UC Libraries were prioritized for archiving in JACS 5 for a number of reasons:

- The majority of the eligible journals fall into Title Categories 3, 4, and 5, indicating that a large portion of the journals that remain housed on campus have low levels of electronic availability. Historically campuses have been less likely to target titles with limited electronic availability in space reclamation projects.
- On average, materials in Title Category 6 have much higher overlap across the system than do materials in other Title Categories. Title Categories 1, 3, 4, and 5 have an average overlap of 2-3, while Title Category 6 has an average overlap of 5.5.
- Titles included in Title Category 6 also have a higher average number of volumes per journal family than do titles in the other categories. The average depth of backfile for Title Categories 1, 3, 4, and 5 range from 20-34; Title Category 6 has an average backfile depth of 59.
- The JSTOR title list is commonly used by libraries as a starting point for space reclamation projects, creating a paradox where the print backfiles of titles that have trusted electronic surrogates are potentially at high risk for loss through deduplication.

## JACS 5 Title List: Criteria

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### *CKG title nominations*

As recommended by the JACS 4 Collections Working Group in 2018, 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 5 title list. Two CKGs expressed interest in participating in this process and were provided title lists; one CKG submitted title nominations. JACS 5 is the first campaign that has incorporated title nominations from librarians, and as such there were not yet established guidelines for the CWG to use while judging whether a nominated title should be included on the final title list. After reviewing the nominations that were received, the CWG ultimately adhered to the JACS program guiding principles to accept titles with medium to high systemwide overlap. The final JACS title list includes 31 journal families nominated by librarians, representing an estimated 1,376 total volumes to be archived.

The title nomination and review process highlighted areas of interest for further exploration and discussion within the CWG. Over half of the titles nominated by the CKG were found in only one or two institutions, indicating that a large portion of the journals that are of high interest are scarce within the system, and that there is significant interest in preserving and protecting these scarce titles. While the JACS program prioritizes higher overlap titles in order to maximize opportunities for space reclamation in campus libraries, the CWG recognizes the importance of protecting scarce titles and voices its support for identifying and acting on projects designed to capture these titles. Title nominations that were not accepted for inclusion in the final JACS 5 title list will be held for consideration during JACS 6. SPST is highly encouraged by the engagement of CKGs in this nomination process, and will continue soliciting nominations in the future.

*Recommendation: Work with the Rosemont Share Print Alliance to investigate ways to capture scarce high-quality titles, such as under the Last Copy Initiative that is currently under discussion.*

*Table 5. Resulting Journal Families/Volumes*

<b>Total Journal Families Selected</b>	<b>Total Estimated Volumes Selected</b>	<b>Average Duplication Level</b>
334	19,999	6.05

The JACS 5 CWG did not actively consider LC Classification or subject area while building this list; however, the final list is broadly distributed across the humanities, social sciences, and hard sciences (see Figure 2).

### Distribution by RLF and Holdings and the Campuses

The JACS 5 title list is evenly distributed between the RLFs (see Table 6). 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. Only 14 journal families of the total 334 selections do not have holdings at either RLF, which amounts to an estimated 361 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 includes 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.

*Table 6. Distribution for JACS 5 Journals by RLF*

JACS Archivers	Journal Families	Est. Volumes	Average Duplication Level
NRLF (ZAP)	163	10,019	6.4
SRLF (ZAS)	171	9,980	5.8

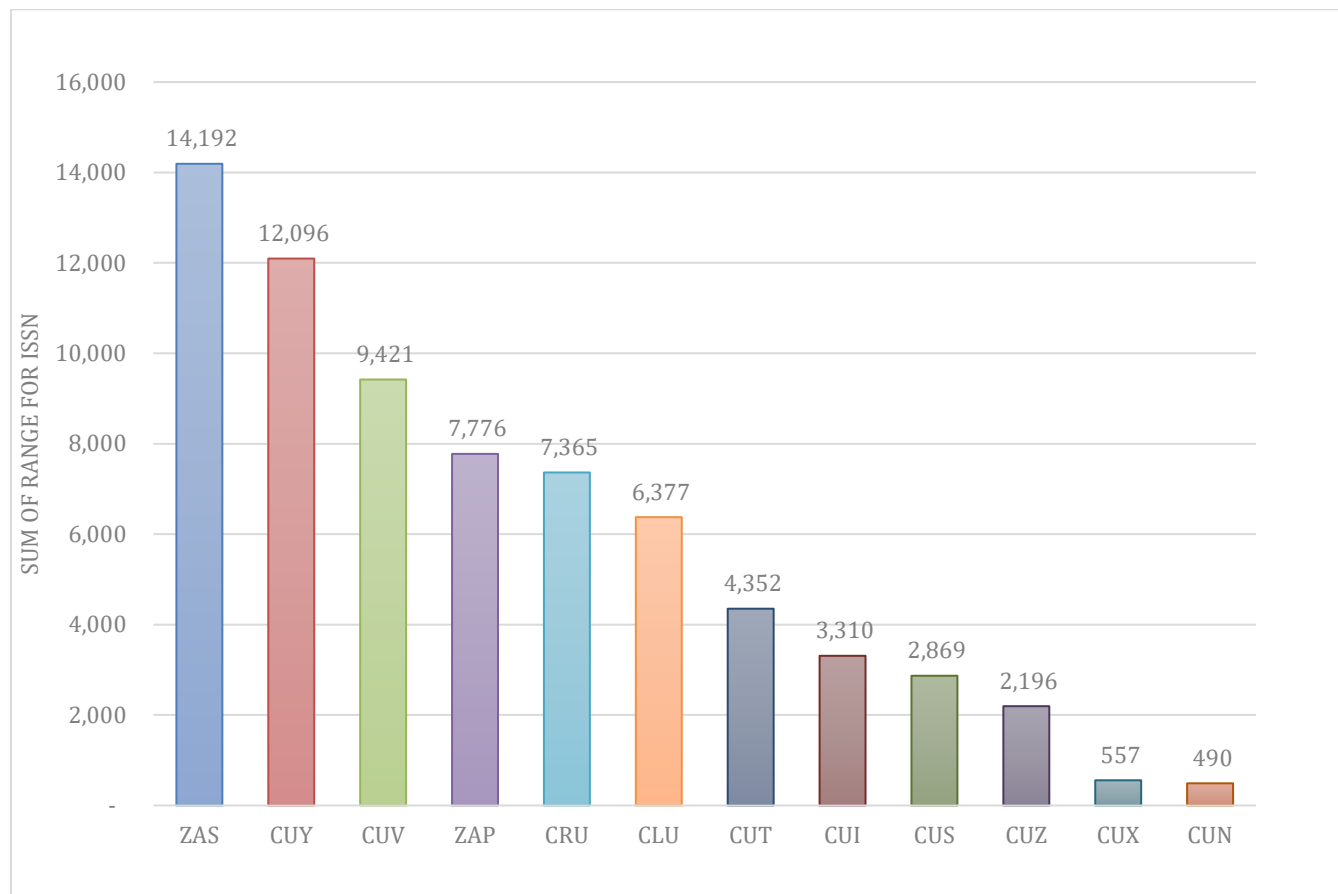
*Table 7. Estimated Volumes per Campus Contributor (including duplicates)*

Campus Contributor	Estimated Volumes (including duplication)
UC Los Angeles (CLU)	6,377
UC Riverside (CRU)	7,365
UC Irvine (CUI)	3,310
UC San Francisco (CUN)	490
UC San Diego (CUS)	2,869
UC Santa Barbara (CUT)	4,352
UC Davis (CUV)	9,421
UC Davis Health Sciences (CUX)	557
UC Berkeley (CUY)	12,096
UC Santa Cruz (CUZ)	2,196
NRLF (ZAP)	7,776
SRLF (ZAS)	14,192



## JACS 5 Title List: Impacts

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



Title list characteristics

Figure 2. Unique Journal Families by LC Class

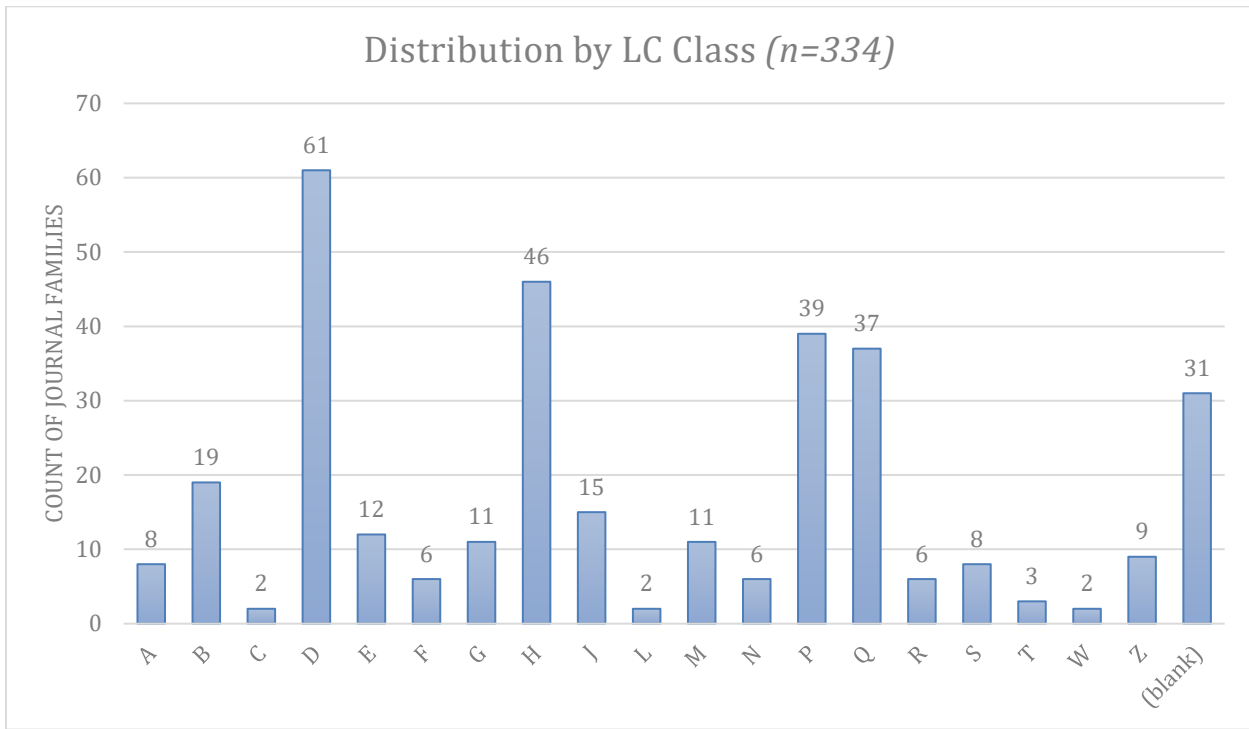
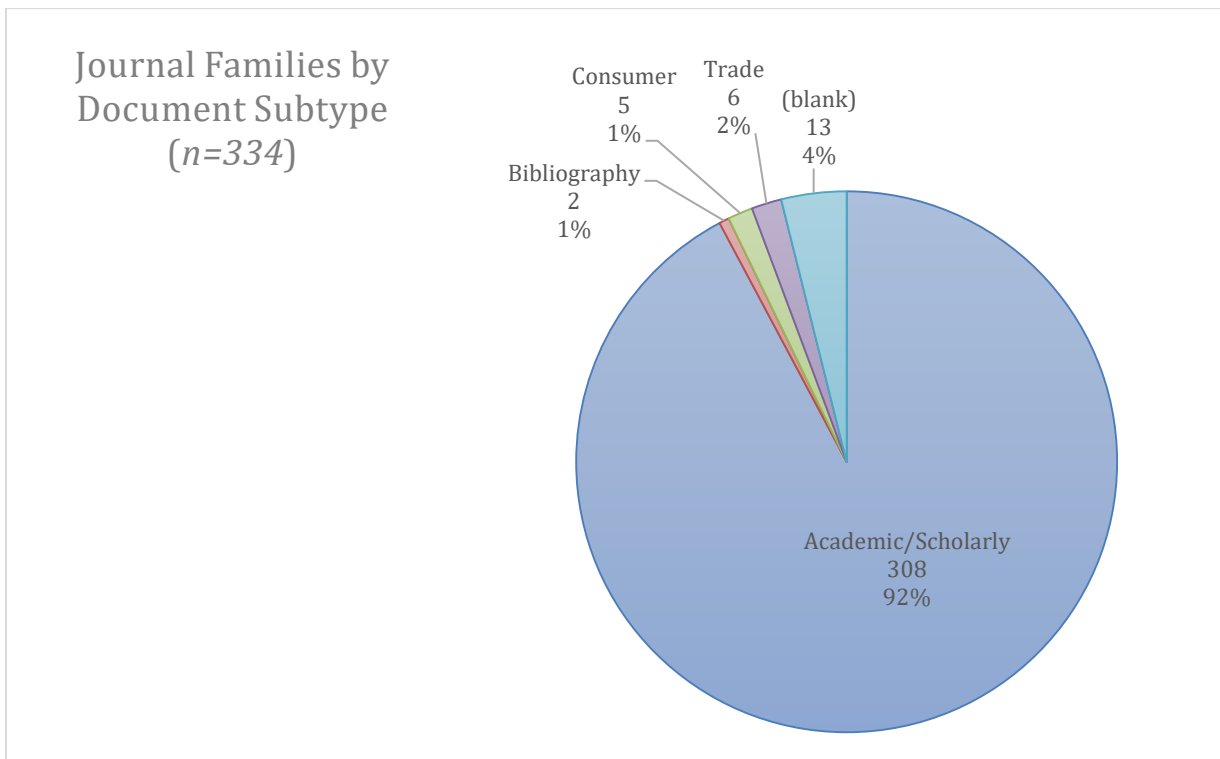


Figure 3. Journal Families by Document Subtype



## JACS 5 Title List: Characteristics

Figure 4. Journal Families by Electronic Availability

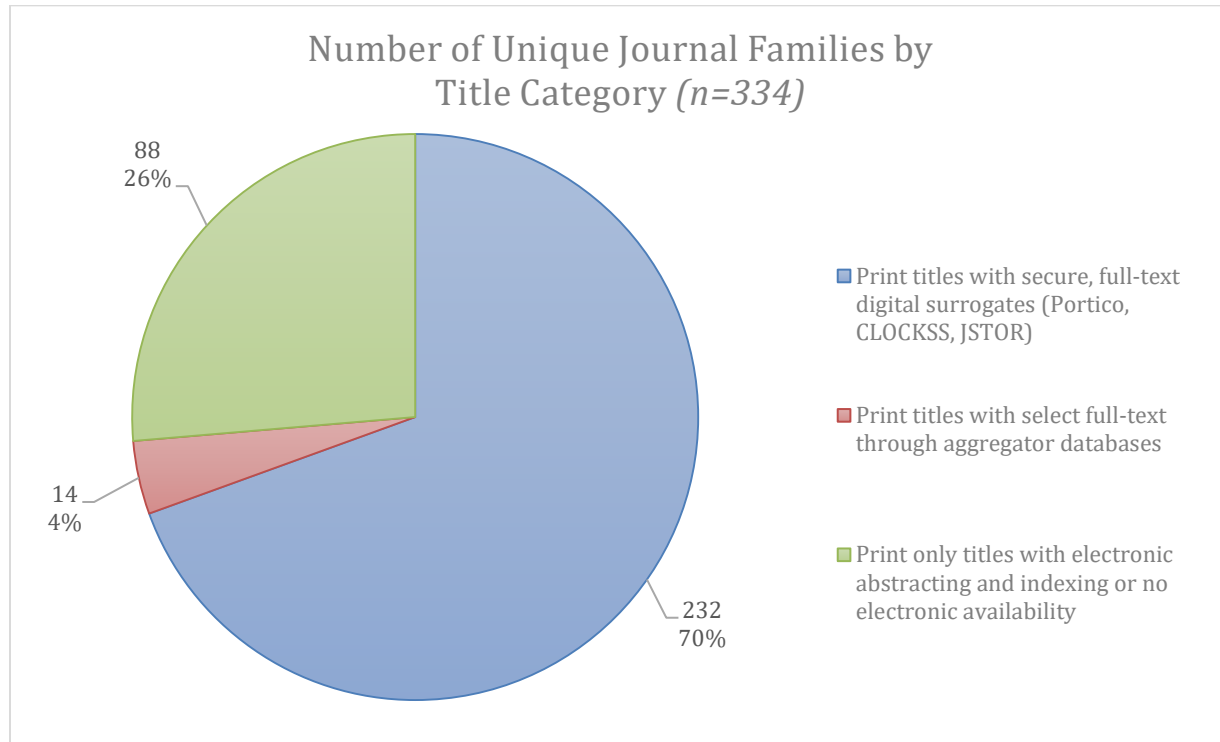


Figure 5. Number of journal families by duplication level

