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Mathematics Library News

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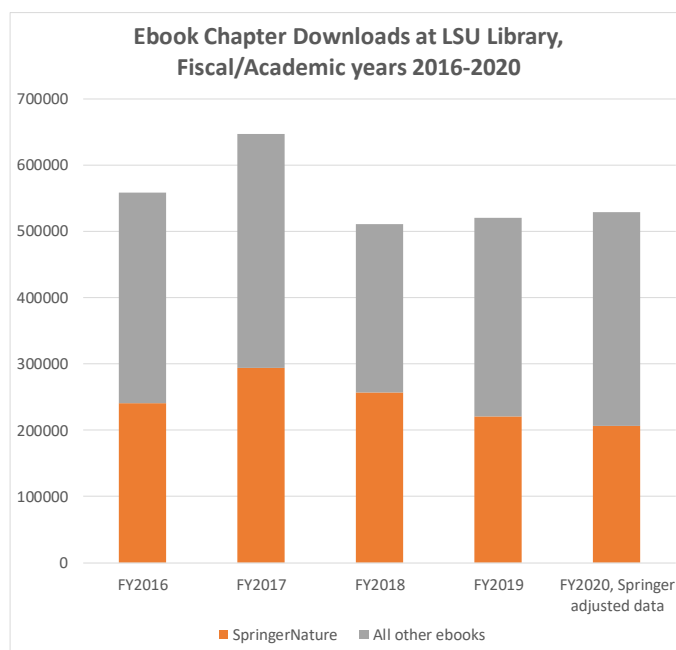
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Local Usage Data Issue

SpringerNature accounts for more ebook use at LSU than other publishers, followed by Wiley, JSTOR, and Elsevier. Recently, a delay in purchasing 2018 and 2019 ebooks until early 2020 seems to have depressed Springer usage. One indication of value is cumulative use: after 4 years, about half of Springer ebooks are used at least once. Delayed purchases slowed this cumulativity for ebooks published in 2017. See below.

Next: LSU Library subscription coverage checked against reference lists of LSU-coauthored journal articles.
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Springer Cumulative Usage

Year Published	Springer titles accessible at LSU now	2016 Used	2017 Used	2018 Used	2019 Used	2020 Used
<2016	59,524	7455	9402	5820	5279	4484
2016	7509	1125	1906	1075	998	835
2017	7483	129	1303	1233	963	689
2018	8041		9	114	104	925
2019	7757			10	109	1189
2020	475				23	81

Year Published	Springer Titles Accessible at LSU Now	2016 Cumulative Percentage Used	2017 Cumulative Percentage Used	2018 Cumulative Percentage Used	2019 Cumulative Percentage Used	2020 Cumulative Percentage Used
2016	7509	15%	35.5%	41.8%	46.4%	48.3%
2017	7483		17.9%	29.0%	34.2%	35.1%
2018	8041			1.5%	2.0%	8.6%
2019	7757			0.1%	1.3%	11.9%
2020	475				NA	NA

Articles in Reference Lists of LSU-Coauthored Articles in Web of Science, 2018-2020: LSU Library Subscription Coverage and Gaps

This analysis is based on the subject categories for journals used in Web of Science, and is limited to items with records in WoS. I checked only enough journals to make up half of all referenced articles, but the percentage shown is of the entire set. Also, the aggregation process means that I counted only how many articles in each journal were cited, not how frequently each article was cited by LSU-coauthored articles. This looks only at math, not at the overall problem of Library budgets.

WoS category, Statistics and Probability. 28 articles published 2018-2020, with 542 references. Percentage of articles in journals without access to current issue: 21.6%. Average age of cited articles: 12 years					
Title	Publisher	Articles cited	Share of articles cited	Cumulative share	Current issue available?
JOURNAL OF THE AMERICAN STATISTICAL ASSOCIATION	TAYLOR & FRANCIS	33	0.061	0.061	No
BIOMETRICS	WILEY	24	0.044	0.105	Yes
STATISTICS IN MEDICINE	WILEY	24	0.044	0.149	Yes
TECHNOMETRICS	TAYLOR & FRANCIS	14	0.026	0.175	No
JOURNAL OF ECONOMETRICS	ELSEVIER	12	0.022	0.197	Yes
JOURNAL OF CLINICAL ONCOLOGY	AMER SOC CLINICAL ONCOLOGY	11	0.020	0.218	No
BIOMETRIKA	OXFORD UNIV PRESS	11	0.020	0.238	Yes
STOCHASTIC PROCESSES AND THEIR APPLICATIONS	ELSEVIER	8	0.015	0.253	No
ANNALS OF STATISTICS	PROJECT EUCLID	8	0.015	0.268	Yes
JOURNAL OF THE ROYAL STATISTICAL SOCIETY SERIES C-APPLIED STATISTICS	WILEY	8	0.015	0.282	Yes
EUROPEAN JOURNAL OF OPERATIONAL RESEARCH	ELSEVIER	7	0.013	0.295	No
ANNALS OF PROBABILITY	PROJECT EUCLID	7	0.013	0.308	Yes
CONTROLLED CLINICAL TRIALS	ELSEVIER	6	0.011	0.319	No
ANNALS OF MATHEMATICAL STATISTICS	PROJECT EUCLID	6	0.011	0.330	Yes
STATISTICAL METHODS IN MEDICAL RESEARCH	SAGE	6	0.011	0.341	Yes
ECONOMETRICA	WILEY	6	0.011	0.352	Yes
EPIDEMIOLOGY	LIPPINCOTT WILLIAMS & WILKINS	5	0.009	0.362	No
NEW ENGLAND JOURNAL OF MEDICINE	MASSACHUSETTS MEDICAL SOC	5	0.009	0.371	No
BIOINFORMATICS	OXFORD UNIV PRESS	5	0.009	0.380	Yes
BIOSTATISTICS	OXFORD UNIV PRESS	5	0.009	0.389	Yes
ANNALS OF APPLIED STATISTICS	PROJECT EUCLID	5	0.009	0.399	Yes
STATISTICA SINICA	STATISTICA SINICA	5	0.009	0.408	No
IIE TRANSACTIONS	TAYLOR & FRANCIS	5	0.009	0.417	No
JOURNAL OF QUALITY TECHNOLOGY	TAYLOR & FRANCIS	5	0.009	0.426	No
JOURNAL OF THE OPERATIONAL RESEARCH SOCIETY	TAYLOR & FRANCIS	5	0.009	0.435	No
AMERICAN NATURALIST	UNIV CHICAGO PRESS	5	0.009	0.445	Yes
JOURNAL OF THE ROYAL STATISTICAL SOCIETY SERIES B-STATISTICAL METHODOLOGY	WILEY	5	0.009	0.454	Yes
AMERICAN STATISTICIAN	AMER STATISTICAL ASSOC	4	0.007	0.461	No
STATISTICAL SCIENCE	INST MATHEMATICAL STATISTICS	4	0.007	0.469	Yes
NATURE	NATURE PUBLISHING GROUP	4	0.007	0.476	Yes
CLINICAL TRIALS	SAGE	4	0.007	0.483	Yes
OECOLOGIA	SPRINGER	4	0.007	0.491	Yes
STOCHASTIC ENVIRONMENTAL RESEARCH AND RISK ASSESSMENT	SPRINGER	4	0.007	0.498	Yes
COMMUNICATIONS IN STATISTICS-SIMULATION AND COMPUTATION	TAYLOR & FRANCIS	4	0.007	0.506	No

WoS category, Applied Math and not Math. 86 articles published 2018-2020, with 1486 references. Percentage of articles in journals without access to current issue: 8.5%. Average age of cited articles: 10 years.

Source Title	Publisher	Articles Cited	Share of articles cited	Cumulative share	Current issue available?
SIAM JOURNAL ON NUMERICAL ANALYSIS	SIAM PUBLICATIONS	71	0.048	0.048	Yes
IEEE TRANSACTIONS ON AUTOMATIC CONTROL	IEEE	47	0.032	0.079	Yes
MATHEMATICS OF COMPUTATION	AMER MATHEMATICAL SOC	44	0.030	0.109	Yes
SIAM JOURNAL ON CONTROL AND OPTIMIZATION	SIAM PUBLICATIONS	36	0.024	0.133	Yes
AUTOMATICA	ELSEVIER	34	0.023	0.156	No
NUMERISCHE MATHEMATIK	SPRINGER	32	0.022	0.178	Yes
JOURNAL OF COMPUTATIONAL PHYSICS	ELSEVIER	28	0.019	0.197	Yes
COMPUTATIONAL OPTIMIZATION AND APPLICATIONS	SPRINGER	25	0.017	0.213	Yes
JOURNAL OF SCIENTIFIC COMPUTING	SPRINGER	23	0.015	0.229	Yes
MATHEMATICAL PROGRAMMING	SPRINGER	23	0.015	0.244	Yes
SIAM JOURNAL ON OPTIMIZATION	SIAM PUBLICATIONS	22	0.015	0.259	Yes
COMPUTER METHODS IN APPLIED MECHANICS AND ENGINEERING	ELSEVIER	21	0.014	0.273	Yes
ARCHIVE FOR RATIONAL MECHANICS AND ANALYSIS	SPRINGER	20	0.013	0.287	Yes
SIAM JOURNAL ON SCIENTIFIC COMPUTING	SIAM PUBLICATIONS	19	0.013	0.299	Yes
SIAM JOURNAL ON APPLIED MATHEMATICS	SIAM PUBLICATIONS	18	0.012	0.312	Yes
PHYSICAL REVIEW LETTERS	AMERICAN PHYSICAL SOC	17	0.011	0.323	Yes
JOURNAL OF COMBINATORIAL THEORY SERIES B	ELSEVIER	16	0.011	0.334	Yes
SIAM JOURNAL ON MATHEMATICAL ANALYSIS	SIAM PUBLICATIONS	16	0.011	0.345	Yes
COMMUNICATIONS IN MATHEMATICAL PHYSICS	SPRINGER	16	0.011	0.355	Yes
PHYSICAL REVIEW E	AMERICAN PHYSICAL SOC	15	0.010	0.365	Yes
IMA JOURNAL OF NUMERICAL ANALYSIS	OXFORD UNIV PRESS	15	0.010	0.376	Yes
SYSTEMS & CONTROL LETTERS	ELSEVIER	14	0.009	0.385	No
COMPUTERS & MATHEMATICS WITH APPLICATIONS	ELSEVIER	13	0.009	0.394	No
COMMUNICATIONS ON PURE AND APPLIED MATHEMATICS	WILEY	13	0.009	0.402	Yes
JOURNAL OF COMPUTATIONAL AND APPLIED MATHEMATICS	ELSEVIER	12	0.008	0.410	No
IEEE TRANSACTIONS ON INFORMATION THEORY	IEEE	12	0.008	0.419	Yes
TRANSACTIONS OF THE AMERICAN MATHEMATICAL SOCIETY	AMER MATHEMATICAL SOC	11	0.007	0.426	Yes
SCIENCE	AMER ASSOC ADVANCE-	10	0.007	0.433	Yes
INVERSE PROBLEMS	IOP PUBLISHING LTD	10	0.007	0.439	Yes
COMMUNICATIONS IN COMPUTATIONAL PHYSICS	GLOBAL SCIENCE PRESS	9	0.006	0.445	No
PROCEEDINGS OF THE NATIONAL ACADEMY OF SCIENCES OF THE UNITED STATES OF AMERICA	NATL ACAD SCIENCES	9	0.006	0.452	Yes
JOURNAL OF POLYMER SCIENCE PART A-POLYMER CHEMISTRY	WILEY	9	0.006	0.458	Yes
ANNALES DE L INSTITUT HENRI POINCARÉ-ANALYSE NON LINEAIRE	ELSEVIER	8	0.005	0.463	No
JOURNAL OF DIFFERENTIAL EQUATIONS	ELSEVIER	8	0.005	0.468	No
ESAIM-MATHEMATICAL MODELLING AND NUMERICAL ANALYSIS-MODELISATION MATHEMATIQUE ET ANALYSE NUMERIQUE	EDP SCIENCES S A	8	0.005	0.474	Yes
NATURE	NATURE PUBLISHING	8	0.005	0.479	Yes
ADVANCES IN APPLIED MATHEMATICS	ELSEVIER	7	0.005	0.484	No
JOURNAL OF MATHEMATICAL ANALYSIS AND APPLICATIONS	ELSEVIER	7	0.005	0.489	No
NONLINEAR ANALYSIS-THEORY METHODS & APPLICATIONS	ELSEVIER	7	0.005	0.493	No
REVUE FRANCAISE D AUTOMATIQUE INFORMATIQUE RECHERCHE OPERATIONNELLE	ELSEVIER	7	0.005	0.498	No
JOURNAL OF THE OPTICAL SOCIETY OF AMERICA A-OPTICS IMAGE SCIENCE AND VISION	OPTICAL SOC AMER	7	0.005	0.503	No

WoS category, Math. 152 articles published 2018-2020 with 2498 references. Percentage of articles in journals without access to current issue: 13%. Average age of cited articles: 12 years.

Title	Publisher	Articles cited	Share of articles cited	Cumulative share	Current issue available?
ADVANCES IN MATHEMATICS	ELSEVIER	101	0.040	0.040	Yes
INVENTIONES MATHEMATICAE	SPRINGER	83	0.033	0.074	Yes
TRANSACTIONS OF THE AMERICAN MATHEMATICAL SOCIETY	AMER MATHEMATICAL SOC	71	0.028	0.102	Yes
COMMUNICATIONS IN MATHEMATICAL PHYSICS	SPRINGER	71	0.028	0.131	Yes
ANNALS OF MATHEMATICS	ANNAL MATHEMATICS	58	0.023	0.154	Yes
JOURNAL OF COMBINATORIAL THEORY SERIES B	ELSEVIER	48	0.019	0.173	Yes
JOURNAL OF FUNCTIONAL ANALYSIS	ELSEVIER	48	0.019	0.192	Yes
JOURNAL OF ALGEBRA	ELSEVIER	47	0.019	0.211	No
PROCEEDINGS OF THE AMERICAN MATHEMATICAL SOCIETY	AMER MATHEMATICAL SOC	39	0.016	0.227	Yes
MATHEMATISCHE ANNALEN	SPRINGER	38	0.015	0.242	Yes
DUKE MATHEMATICAL JOURNAL	DUKE UNIV PRESS	37	0.015	0.257	Yes
JOURNAL OF MATHEMATICAL ANALYSIS AND APPLICATIONS	ELSEVIER	27	0.011	0.268	No
JOURNAL FUR DIE REINE UND ANGEWANDTE MATHEMATIK	WALTER DE GRUYTER GMBH	26	0.010	0.278	No
SIAM JOURNAL ON NUMERICAL ANALYSIS	SIAM PUBLICATIONS	26	0.010	0.288	Yes
AMERICAN JOURNAL OF MATHEMATICS	JOHNS HOPKINS UNIV PRESS	25	0.010	0.298	Yes
INTERNATIONAL MATHEMATICS RESEARCH NOTICES	OXFORD UNIV PRESS	25	0.010	0.308	Yes
ARCHIVE FOR RATIONAL MECHANICS AND ANALYSIS	SPRINGER	25	0.010	0.319	Yes
COMMUNICATIONS ON PURE AND APPLIED MATHEMATICS	WILEY	25	0.010	0.329	Yes
JOURNAL OF THE AMERICAN MATHEMATICAL SOCIETY	AMER MATHEMATICAL SOC	23	0.009	0.338	Yes
IEEE TRANSACTIONS ON AUTOMATIC CONTROL	IEEE	23	0.009	0.347	Yes
COMMUNICATIONS IN PARTIAL DIFFERENTIAL EQUATIONS	TAYLOR & FRANCIS INC	22	0.009	0.356	No
COMPOSITIO MATHEMATICA	CAMBRIDGE UNIV PRESS	21	0.008	0.364	No
PACIFIC JOURNAL OF MATHEMATICS	MATHEMATICAL SCIENCE PUBL	21	0.008	0.373	No
PROCEEDINGS OF THE LONDON MATHEMATICAL SOCIETY	WILEY	20	0.008	0.381	Yes
NUMERISCHE MATHEMATIK	SPRINGER	19	0.008	0.388	Yes
MATHEMATICAL RESEARCH LETTERS	INT PRESS BOSTON	18	0.007	0.395	No
MATHEMATISCHE ZEITSCHRIFT	SPRINGER	18	0.007	0.403	Yes
ALGEBRAIC AND GEOMETRIC TOPOLOGY	MATHEMATICAL SCIENCE PUBL	17	0.007	0.409	Yes
SELECTA MATHEMATICA-NEW SERIES	SPRINGER	17	0.007	0.416	Yes
MATHEMATICS OF COMPUTATION	AMER MATHEMATICAL SOC	16	0.006	0.423	Yes
PROCEEDINGS OF THE NATIONAL ACADEMY OF SCIENCES OF THE UNITED STATES OF AMERICA	NATL ACAD SCIENCES	16	0.006	0.429	Yes
JOURNAL OF THE LONDON MATHEMATICAL SOCIETY-SECOND SERIES	WILEY	16	0.006	0.435	Yes
MATHEMATICAL PROCEEDINGS OF THE CAMBRIDGE PHILOSOPHICAL SOCIETY	CAMBRIDGE UNIV PRESS	15	0.006	0.442	No
JOURNAL OF DIFFERENTIAL EQUATIONS	ELSEVIER	15	0.006	0.448	No
TOPOLOGY AND ITS APPLICATIONS	ELSEVIER	15	0.006	0.454	No
JOURNAL OF KNOT THEORY AND ITS RAMIFICATIONS	WORLD SCIENTIFIC PUBL CO PTE LTD	15	0.006	0.460	No
GEOMETRY & TOPOLOGY	MATHEMATICAL SCIENCE PUBL	15	0.006	0.466	Yes
COMPUTER METHODS IN APPLIED MECHANICS AND ENGINEERING	ELSEVIER	14	0.006	0.471	No
ANNALES SCIENTIFIQUES DE L ECOLE NORMALE SUPERIEURE	ELSEVIER	14	0.006	0.477	No
TOPOLOGY	ELSEVIER	14	0.006	0.482	No
ACTA MATHEMATICA	INT PRESS BOSTON	14	0.006	0.488	No
ADVANCES IN APPLIED MATHEMATICS	ELSEVIER	13	0.005	0.493	No
ANNALES DE L INSTITUT HENRI POINCARÉ-ANALYSE NON LINEAIRE	ELSEVIER	13	0.005	0.498	No
GEOMETRIAE DEDICATA	SPRINGER	13	0.005	0.504	Yes