

## Spectrum, Concordia University's Open Access Research Repository

Tenth Annual Report, 2019

August 2020

### Overview

Concordia University's open access institutional repository, Spectrum, contains book chapters, articles, conference papers, datasets, videos, theses, graduate research projects, and other works authored or created by members of the Concordia community. EPrints ([www.eprints.org](http://www.eprints.org)) is the free and open source software platform on which Spectrum is built.

In the last year, we completed several important projects that improve our ability to preserve the works in Spectrum as well as to increase their visibility and accessibility. We began integrations that will ease researchers' abilities to manage information about their endeavours. We continued to support the Concordia community's use of Spectrum through outreach on open access issues and direct consultation. These efforts continue to build on the 2010 Concordia Senate resolution<sup>1</sup>, encouraging Concordia researchers to deposit their peer-reviewed articles in Spectrum.

This tenth annual report summarizes progress and achievements from January 1, 2019 to December 31, 2019, and outlines developments for Spectrum's eleventh year.

### Growth and usage of content in Spectrum

Between January 1, 2019 and December 31, 2019, 606 documents were deposited in Spectrum.

Document Type	Number Deposited	Percentage of Total Deposits
Thesis	382	63%
Article	147	24.3%
Non-Thesis Graduate Project	34	5.6%
Monograph Chapter	15	2.5%
Monograph & Book	5	0.8%
Conference Paper	18	3%
Dataset	2	0.3%

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<sup>1</sup> Concordia University Senate Resolution on Open Access, 2010,  
<http://library.concordia.ca/research/openaccess/SenateResolutiononOpenAccess.pdf>.

Video	3	0.5%
Total	606	100%

Table 1. Number of documents added to Spectrum by type and percentage of total, 2018.

A total 16,600 documents were deposited in Spectrum from September 1, 2009 to December 31, 2019. Deposits have averaged 730 per year over the last three years.

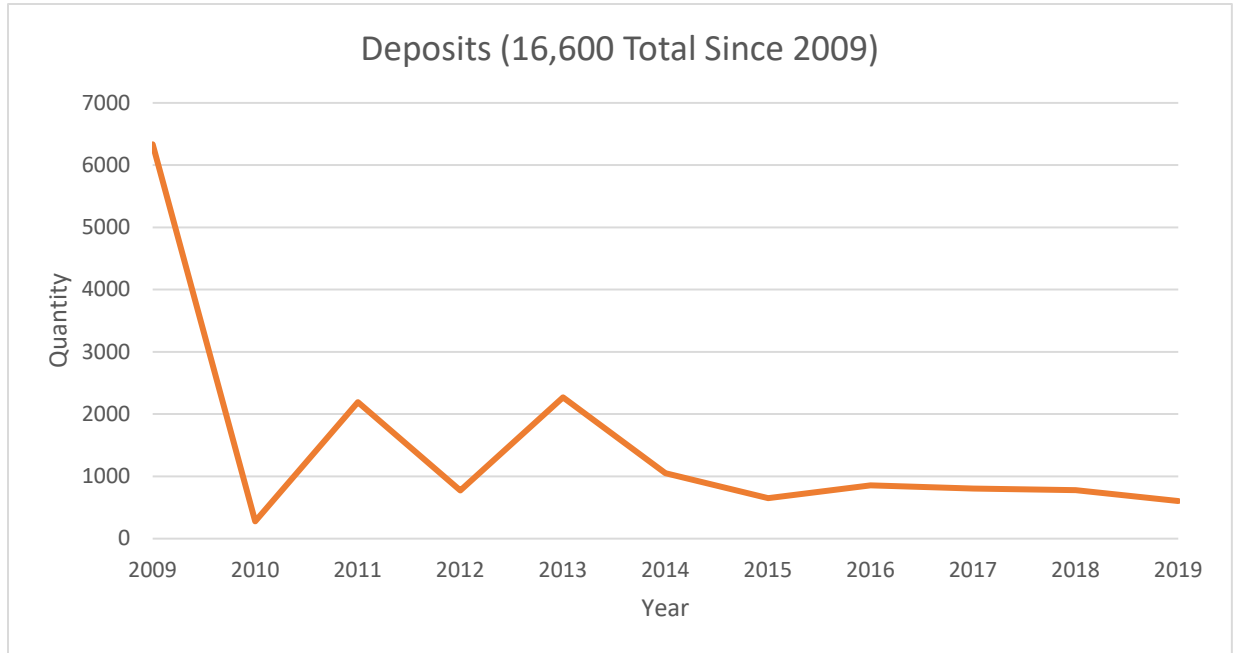


Figure 1. Number of deposits in Spectrum per year over a nine-year period.

Access to Spectrum's full text content between January 1, 2019 to December 31, 2019 was 385,792 downloads. Total or cumulative downloads of Spectrum materials from September 1, 2009 to December 31, 2019 was 5,421,320.

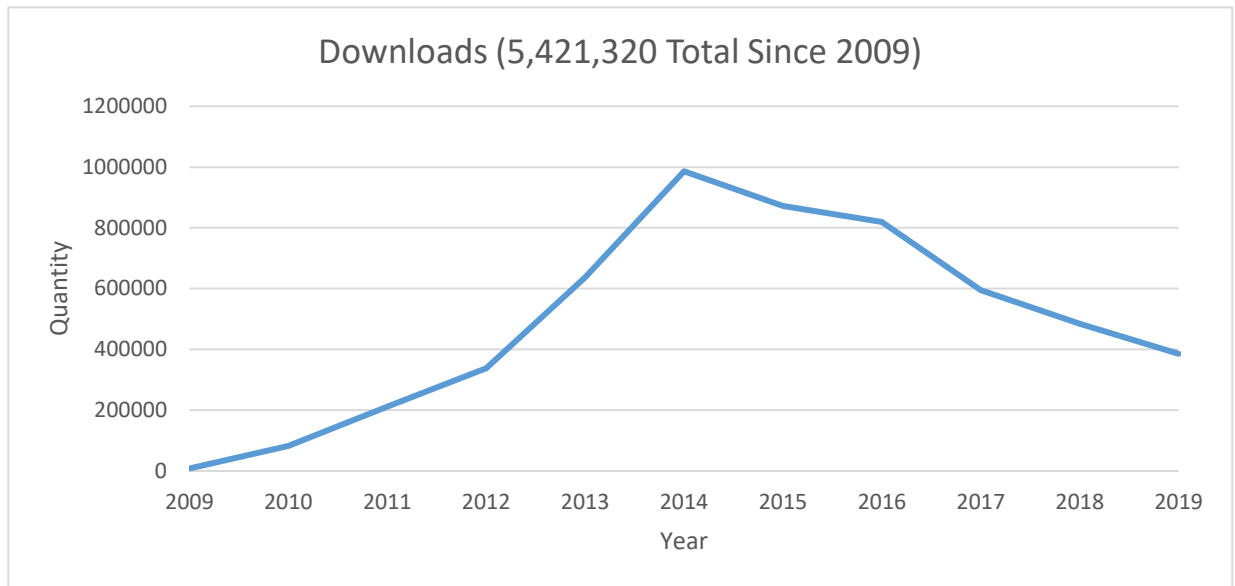


Figure 1. Number of downloads from Spectrum per year over a nine-year period.

**Spectrum is accessed by users from across the globe.**

The top ten countries represented by downloads for the year covered in this report are (in descending order).

1. United States
2. Canada
3. Germany
4. United Kingdom
5. China
6. France
7. India
8. Australia
9. Netherlands
10. Ukraine

Spectrum’s download statistics track information about individual authors and deposits. The following authors’ works were heavily downloaded during Spectrum’s ninth year.

Author	Department/Faculty	Downloads
Laroche, Michel	John Molson School of Business	8,625
Richard, Marie-Odile	John Molson School of Business	5,132
Habibi, Mohammad Reza	John Molson School of Business	4,527
Sankaranarayanan, Ramesh	John Molson School of Business	4,423
Radomsky, Adam S.	Psychology	3,091
Cicchetti, Umberto	Religion	3,005
Okoli, Chitu	John Molson School of Business	2,700
Reilly, Rosemary C.	Applied Human Sciences	2,686
Valverde, Raul	John Molson School of Business	2,632
Cleveland, Mark	John Molson School of Business	2,476

Table 2. Most downloaded Spectrum authors, 2019.

The following 10 documents in Spectrum received the most full-text downloads from January 1, 2019 to December 31, 2019.

Author	Document Type	Title	Downloads
Laroche, Michel, Habibi, Mohammad Reza, Richard, Marie-Odile and Sankaranarayanan, Ramesh	Journal Article	The effects of social media based brand communities on brand community markers, value creation practices, brand trust and brand loyalty	4,407
Cicchetti, Umberto	PhD Thesis	Ibn Qutayba et l'islamisation de la science de l'interprétation des rêves en Islam; Suivi d'une traduction de l'oneirocriton d'Ibn Qutayba (m.276/889) et une présentation inédite du texte intégral arabe de l'oneirocriton attribué à Ibrāhīm B.'Abdullāh al-Kirmānī ( m.184/800)	3,005
Okoli, Chitu and Pawlowski, Suzanne D.	Journal Article	The Delphi method as a research tool: an example, design considerations and applications	2,352
Kumar, Ravinder	MA Thesis	The Effect of Collaborative Learning on Enhancing Student Achievement : A Meta-Analysis	1,635
Shirgir, Samira	MSc Thesis	Issuing a Convertible Bond with Call-Spread Overlay: Incorporating the Effects of Convertible Arbitrage	1,625
Cleveland, Mark, Papadopoulos, Nicolas and Laroche, Michel	Journal Article	Identity, demographics, and consumer behaviors: International market segmentation across product categories	1,415
Mlek, Magdalena	MA Thesis	Nursing Students' Learning Experiences in Clinical Settings: Stress, Anxiety and Coping	1,415
Campbell, Margaret S	MA Thesis	Perspectives on Pornography and Erotica: Nudes, Prudes and Attitudes	1,410
Snow, Shelley	PhD Thesis	Healing through sound: An exploration of a vocal sound healing method in Great Britain	988
Subzwari, Khawer, Mokhov, Serguei A., Khalid, Outlioua, Gonzalez, Alex and Kadiri, Mutair M.	Conference Presentation	TRIZ: A Theory of Inventive Problem Solving	970

Table 3. Most downloaded Spectrum documents, 2019.

## Developments in 2019 and Goals for 2020

During Open Access Week 2019, we included information about Spectrum in an article written for Concordia's NOW newsletter and which was promoted on the Concordia website. Spectrum usage was included for a planned workshop on copyright and theses. Finally, librarians were stationed at different

areas of the university to answer open access questions, including providing information about Spectrum.

The library has developed some new processes for discovering, obtaining, and depositing open access articles from Concordia authors into Spectrum. The process also facilitates mediated deposits of larger bodies of work from individual Concordia researchers. Scheduled to begin early in 2020, these processes were delayed due to the COVID-19 pandemic.

In 2019, with the help of Artefactual Systems, EPrints Services, and other members of the international EPrints open source software community, we led the development of the [EPrints-Archivematica export plugin](#). In 2020, we began using this plugin to export digital objects and metadata from Spectrum to a dedicated Archivematica digital preservation system. This functionality is a best practice for open repositories that allows us to continually ensure that files are not lost or corrupted and sufficient information about the digital objects is collected to enable future preservation actions and access.

Following the installation of the ORCID Support plugin, in 2019, we have been testing an upgrade of this integration to the [ORCID Support Advance](#). This upgrade will allow users to register and connect their ORCID to Spectrum. Once authenticated, it will allow depositors to manage permissions to import from ORCID to Spectrum and write to their ORCID profile with information about content deposited to Spectrum. We plan on making this ORCID integration in Spectrum live in 2020.

In 2019, we made the CORE recommender plugin visible on Spectrum abstract pages. This plugin helps users find more documents related to the subjects covered in Spectrum documents. The CORE recommender relies on harvesting and indexing of Spectrum contents in the [CORE](#) database.

Concordia University joined a Canadian Association of Research Libraries (CARL) pilot project which seeks to use the [OpenAIRE](#) service to improve the discoverability of Canadian open access content. In partnership with Canada's federal funding agencies, this pilot project also aims to provide more comprehensive ways to discover and relate research outputs with funding organizations. In 2019, during the first phase of the pilot, we have developed a metadata export plugin for Spectrum that will be used by OpenAIRE to make the content retrievable in [OpenAIRE search](#). In 2020, we plan on validating the plugin for compatibility with OpenAIRE guidelines, registering as a data source, and testing the use of OpenAIRE text and data mining techniques to associate funding information based on Canadian public grants databases with the harvested content from Spectrum.

Submitted by J. Chalifour and T. Neugebauer