Open Access and Academic Journals in Canada: A Political Science Perspective

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Abstract
The push to implement Open Access (OA) as the new standard for academic research dissemination is creating very real pressures on academic journals. In Canada, the Social Science and Humanities Research Council (SSHRC) recently adopted a policy requiring that journals applying for its Aid to Scholarly Journals (ASJ) grant make their scholarly content freely accessible after no more than a 12-month delay. For journals such as the Canadian Journal of Political Science (CJPS) that not only publish high-quality, peer-reviewed articles to a specialized audience but also support the work of scholarly associations through the revenues they generate, the push to move to OA comes with a number of challenges. The Canadian Political Science Association (CPSA) and the Société québécoise de science politique (SQSP) established a committee to chart the best course of action for the CJPS in light of this changing landscape. This article summarizes the key findings of the committee and underscores some of the challenges of OA for journals with a profile similar to the CJPS, as well as for the broader research ecosystem that they support.

Résumé
Le phénomène du libre accès (LA) gagne en importance dans le domaine des publications savantes. Au Canada, le Conseil de recherches en sciences humaines (CRSH) exige dorénavant que les revues bénéficiant du Programme d’aide aux revues savantes rendent accessible gratuitement leur contenu scientifique après un délai maximal de 12 mois suivant la publication. Pour les revues scientifiques qui, comme la Revue canadienne de science politique (RCSP), servent non seulement à la diffusion de la recherche au Canada, mais génèrent aussi des revenus importants servant à soutenir les activités de sociétés savantes, le passage au libre accès n’est pas sans conséquence. L’Association canadienne de science politique et la Société québécoise de science politique ont mis en place un comité conjoint afin de se pencher sur les enjeux associés au LA pour la RCSP. Cet article résume les principales conclusions du comité. Nous soulignons certains des défis que pose
le libre accès aux revues savantes au profil similaire à la RCSP, mais aussi de manière plus large pour l’écosystème de la recherche scientifique au Canada.

**Keywords:** scholarly publishing; open access; academic associations; journals; political science; Canada

**Introduction**

Digital publishing is transforming how academic journals operate. Thanks to online platforms, the number of outlets for publishing scholarly work is growing rapidly. The concomitant push to adopt Open Access (OA) as the new standard for academic research dissemination is creating very real pressures on academic journals.

The purpose of OA is to make research as accessible as possible, so as to maximize its impact and public benefit. In principle, journals ought to support the OA movement. However, OA creates its own challenges for many journals such as the *Canadian Journal of Political Science (CJPS)* that not only publish high-quality, peer-reviewed articles to a specialized audience but also support the work of scholarly associations through the revenues they generate. As funding agencies around the world are making their research grants conditional on the publication of results in OA-compliant journals or platforms, the traditional business model of a number of journals is now under stress.

In Canada, the pressure for journals to adopt OA standards is very real. As of 2015, the Tri-Council Agency requires that peer-reviewed journal publications resulting from any of its grants be freely accessible online through a public repository and/or directly on publishers’ websites within 12 months of publication (Government of Canada, 2016). The Fonds de recherche du Québec—Société et culture adopted a similar policy for its own grant recipients beginning in early 2019 (FRQSC, 2019). Of more direct and immediate impact for scholarly journals, the Social Sciences and Humanities Research Council (SSHRC)—the main granting agency for the humanities and social sciences in Canada—adopted a new policy in 2018 requiring that journals supported through its Aid to Scholarly Journals (ASJ) grant make the published version of record (VoR) for all peer-reviewed content freely accessible, either immediately upon publication or after no more than a 12-month delay (SSHRC, 2018). As is the case for most Canadian-based humanities and social sciences (HSS) journals with a broad readership, the *CJPS* does not comply with this recent requirement. It must therefore adjust its business model or forfeit its grant by 2021.

There is little doubt that the trend toward OA is here to stay. However, in the absence of a sustainable business model allowing journals to simultaneously adopt OA and maintain their revenue stream, the shift to OA may ultimately weaken Canadian scholarly journals and the community of researchers they support.

The Canadian Political Science Association (CPSA) and the Société québécoise de science politique (SQSP) established a committee to chart the best course of action for the *CJPS* in light of this changing landscape. The present review summarizes the key findings of the committee and underscores some of the challenges of OA for journals with a profile similar to the *CJPS*, as well as for the broader research ecosystem that they support.¹ In doing so, we hope to encourage a national dialogue on the implications of the current shift to OA for the Canadian scholarly community.
The Canadian Journal of Political Science

The CJPS was founded in 1968 as a successor to the Canadian Journal of Economics and Political Science, which began publication in 1935. A joint publication of the CPSA and the SQSP, the journal has from the outset celebrated its bilingual character: French-language articles have constituted between 15 and 20 per cent of its content over time (White, 2017). Editorial duties are split between English-language and French-language editorial teams, with co-editors appointed to head each team. The existence of a well-respected, peer-reviewed, bilingual journal is fundamentally important to the Canadian political science community. The journal is a unique space for Canada-focused debates in political science, and it is generally held in high esteem (Marland, 2017).

Although it is an omnibus political science journal, the CJPS is the primary outlet for scholarly work on Canadian politics. Over time, 60 per cent to 70 per cent of articles published have focused on Canadian politics, broadly conceived. Approximately three-quarters of authors are affiliated with Canadian universities, with the balance coming primarily but not exclusively from the United States and Western Europe. Since 2004, the journal has been published by Cambridge University Press (CUP). CUP is a well-respected not-for-profit publisher that produces and publishes several key journals in the social sciences, including the flagship journal of the American Political Science Association and several Canadian journals. Articles in CJPS appear in more than 30 Canadian and international indexes. Data for 2017 reveal that there were 93,543 total downloads of CJPS articles, some 7,800 a month. The most frequently cited articles published over the past few years have had a comparative focus (primarily Canada–US comparisons) or Canadian focus on multiculturalism and immigration.

While its primarily Canadian focus somewhat shelters the journal from global competitive trends in scholarly publishing, the proliferation of academic publishing outlets nonetheless creates added pressure on the CJPS. The number of political science journals indexed in the Journal Citation Reports (InCites) grew from 99 to 176 between 2008 and 2018. Canada-focused authors are no longer limited to a few possible venues for publishing their work, especially if it is comparative in nature.

The journal’s business model

The CJPS is a hybrid journal in that its business model relies on subscriptions, but it also allows authors to publish immediate OA articles in exchange for a fee that covers the costs of editing, publishing and promoting the work. These fees, referred to as article processing charges (APCs) are currently set by the publisher (CUP), in agreement with the CJPS, at US$2,980. As of October 2019, only three authors have taken advantage of this OA option. The CJPS also has a “green” OA policy, under which authors can upload the accepted version (after reviews but before the final formatting) of their article to an institutional repository. Commercial sites such as Academia.edu and SSRN are not compliant with CUP’s Green OA policy.

As is true of most academic journals, traditional individual and institutional subscriptions to the CJPS are increasingly being replaced with subscriptions through consortia (the so-called big deals) that CUP negotiates with libraries around the world. In 2018, CJPS circulation included traditional institutional and consortia...
subscriptions, as well as departmental and individual member subscriptions
directly through CPSA/SQSP. A significant number of consortia subscriptions
added since 2017 are low-cost or free subscriptions to institutions in Africa, the
Middle East, South America and Asia through CUP’s aid/donation program.

The journal’s main sources of revenues are royalties from subscriptions, as well
as from reproduction rights and permissions. CUP absorbs a significant proportion
of subscription revenues in exchange for a range of professional services, including
copyediting, production, printing, marketing and distribution. Additionally, CUP
provides access to Editorial Manager, an online editorial software package that
assists in the administration of the editorial process, and to Cambridge Core, its
online platform for academic content. Other sources of income include reproduc-
tion rights that the CJPS generates from older issues that are not licensed with CUP
(through JSTOR and ProQuest), as well as the ASJ grant from SSHRC, which
constitutes approximately 20 per cent of annual revenues.

On the expenditure side, in addition to the production costs assumed by CUP,
the CPSA provides an annual direct transfer equivalent to the SSHRC grant to the
English-language editorial team. The SQSP provides direct support for the
French-language editorial team. In addition to CPSA funding, the host university
of the English-language editorial team supplies an equivalent or greater subvention
to cover course release and other expenses. Without the dedicated work of the
French and English teams, it would be impossible to produce a high-quality, reliable
journal dedicated to supporting the Canadian political science community.
The CPSA also directly incurs additional expenses related to the journal, including
translation of all journal-related documents and web material and its clerical and
financial administration.

While producing a quality peer-reviewed journal such as the CJPS is expensive, a
significant portion of journal revenues is nonetheless transferred to the CPSA and
SQSP, according to a mutually agreed upon formula. The net return to the CPSA
from the journal accounts for roughly a third of the association’s annual total
revenue in recent years. The journal is therefore an important revenue source
that supports, in part, a range of activities of benefit to CPSA members, including
the organization of the annual conference, student travel grants, the association
newsletter that has more than 4,000 subscribers, and the Praxis blog. The relatively
stable income stream from the journal has allowed the association to offer low
membership fees and to subsidize student memberships and student conference
fees. This situation is not unique to the CPSA (Bull, 2016). Many large academic
associations in the social sciences rely heavily on income from journals to support
their activities.3

The impact of the changing landscape of scholarly publishing and, more specif-
ically, the growing push for OA, will therefore be significant for the Canadian
political science community. The CJPS and its proprietary scholarly associations
rely heavily on revenues derived from journal subscriptions and reproduction
rights. While it is extremely difficult to predict trends in subscriptions in the
face of a changing OA market, CUP forecasts that over the next five years, overall
revenue from the journal is likely to continue to decline due to the changing nature
of the publishing environment, including growing pressure for alternatives to the
subscription-based model. Maintaining the status quo may therefore be difficult
An Overview of the OA Landscape in Scholarly Publishing

Somewhat paradoxically, the digital environment makes it is easier than ever before to access research and yet the cost of accessing this research has increased dramatically. Between 1986 and 2016, the cost of journal subscriptions for research institutions has grown at a pace four times the inflation rate. In 2018, Canadian university libraries paid more than CDN$300 million for subscriptions to research journals. This reflects, in part, the growing number of journals. The large profit margins that the top five commercial publishers make on their so-called big deal subscriptions, under which they bundle their journals and sell them as a package to university libraries, are often blamed for this inflationary pace (Larivière et al., 2015; Anderson, 2017). As a result, the ability of research libraries to curate resources and build collections most appropriate for their communities has been increasingly hampered. The OA movement is largely a product of the tension between ease of access through electronic means and the rising costs of subscriptions (Suber, 2013).

What is OA?

Simply put, Open Access means providing free and unrestricted online access to academic publications (BOAI, 2002). To qualify as OA, a publication must be freely available in a digital format, absent any subscription barriers or paywalls. The research should also be free of most copyright and licensing restrictions, meaning that it can be used, reproduced and disseminated at will, provided authors maintain...
control over the integrity of their work and are properly acknowledged and cited. Many OA advocates and funding agencies add a third criterion: that the research should be made immediately available, without an embargo period.⁴

The purpose of OA is to make research, especially if it is publicly funded, as accessible as possible to the broadest possible audience. Several models have emerged to support these goals in the last two decades, each with its strengths and weaknesses (see Figure 1). While some models align more closely than others with the underlying principles of OA, none has so far established itself as the clear alternative to the subscription-based business model of most academic journals.

**Gold OA**

Gold OA refers to content that is freely and immediately available directly on the publisher’s website, generally under a Creative Commons license that allows for free access and redistribution and, in many cases, for re-use in new or derivative works. Since publishers forgo any revenue under this scenario, they must find another way to finance production costs. In some cases, production costs can be minimized using in-house publishing and an OA diffusion platform such as Érudit. In most cases, and especially for general journals with a broad readership, Gold OA is sustained through an article processing charge (APC), which is a payment from the author, the author’s institution or a granting agency to the publisher to cover all or part of the production costs.

The use of APCs means that the costs of publishing are essentially transferred from those who read the articles to those who produce them. The underlying assumption is that funding agencies and research institutions will absorb these costs through research grants to authors. While this does not necessarily pose a significant burden for researchers in science, technology, engineering and mathematics (STEM sciences), the model is more controversial in the humanities and social sciences, where close to 50 per cent of publications are not funded through research grants (Carling et al., 2018; Royal Historical Society [UK], 2019). Junior or unaffiliated researchers, as well as graduate students, are at a particular disadvantage under this model, as many cannot afford the APCs charged by some of the top journals (Carling et al., 2018; “Open Letter from History Journal Editors,” 2019). APCs for major HSS journals offering Gold OA vary considerably, but our findings suggest that it averages approximately US$2,880 per article.

Other concerns with this model include its potential effects on the quality of peer reviewing. Gold OA publishers have a greater incentive to accept as many APC-based OA articles as possible to support publication costs (Suber, 2013). The emergence of predatory journals and “mega-journals” that publish several hundred articles annually on a broad array of topics are by-products of this “author pay” model of OA, under which the incentive structure for the publisher partly shifts from quality to quantity.

**Green OA**

Green OA (also known as self-archiving) is the practice of making a version of an article or book freely accessible online through an institutional or personal
repository. The archiving of documents on commercial sites such as Academia.edu, SSRN or ResearchGate is not normally permitted under most Green OA policies. Publishers have varying copyright agreements that stipulate the particular version of the article that can be posted, as well as different timelines for when it can be posted. In some cases, only the author’s version prior to submission for publication can be posted (preprint), either immediately or after an embargo period (6 to 24 months, in general). Several publishers authorize the posting of the accepted manuscript (AM) that includes revisions after having undergone peer review. Finally, some accept the posting of the version of record (VoR)—the published version—complete with volume/issue/pagination and the imprimatur of the journal and its publisher. Under CJPS’s publishing agreement with CUP, authors publishing in the journal can post the accepted version of their manuscript on an institutional repository without an embargo period.

Studies suggest that adopting a Green OA policy has only a limited impact on a journal’s subscriptions (Houghton and Swan, 2013), although this is likely to change if self-archiving becomes more systematic (Anderson, 2017). For OA advocates, the problem with this model is that it does not fundamentally alter the cost structure of publishing. As such, Green OA is generally considered a transitional step, until a sustainable model more consistent with the principles and goals of OA can be adopted.

Interestingly, while an estimated 81 per cent of all research is currently published in journals that permit Green OA after a 12-month embargo, there is a large gap between the actual self-archiving done by authors and the self-archiving that is allowed in publisher policies. According to a review of existing studies completed by Björk et al. (2014), only 12 per cent of scientific journal articles were self-archived despite the fairly liberal policies of many publishers, although there is significant variation across disciplines. In short, the vast majority of academic authors do not take advantage of this opportunity. The effectiveness of Green OA policies is therefore likely to be limited in the absence of more coercive rules.

**Hybrid models**

Hybrid variants of Open Access have emerged in recent years in response to the requirements of a growing number of granting agencies related to OA. Under the most common hybrid model, journals maintain their subscription-based business model but allow both Green and Gold OA options, with the latter requiring authors to pay article processing charges.

The hybrid model offers a good compromise to a pure Gold OA model, but like its Green counterpart, it has been criticized for failing to directly address the rising cost of subscriptions (Matthias, 2018). Publishers may, however, charge twice for the same content (that is, both APCs and subscription fees, referred to as “double-dipping”).

Data suggest that the uptake of the Gold OA option in hybrid journals varies across subject areas but that it is generally much lower in the humanities and social sciences where, as previously mentioned, APCs face more resistance. As previously noted, very few CJPS authors have opted to pay the fee required to make their article freely available.
Delayed OA

Delayed OA allows free access to articles after an embargo period, either directly on the publisher’s website or on an institutional repository. By definition, delayed OA is incompatible with a definition of OA that mandates immediate access (Suber, 2009; cOAlition S, 2018), but it is seen as a compromise for journals relying on subscription revenues. The Tri-Council statement on OA in Canada supports delayed Open Access, as does SSHRC’s revised Aid to Scholarly Journals program. Embargoes are not accepted under the current version of the European Plan S (reviewed below).

The financial viability of this model is dependent on the desirability of paying for immediate access to journal material. This is likely to shift over time as content becomes increasingly available under delayed OA and libraries potentially forgo their subscriptions. Few studies have examined the long-term impact of delayed OA on the subscription base of journals, especially in the humanities and social sciences. King et al. (2009) suggest that about 50 per cent of all accessed and read STEM articles are at least a year old, although there is significant variation across disciplines.

Read and publish

Read and publish (R&P) is not, by definition, an OA model. Instead, it is a pooling mechanism that shifts the burden of APCs from individual researchers to their institutions, mostly through the leveraging of library budgets currently dedicated to journal subscriptions. In essence, an R&P is a negotiated deal between a publisher and a research institution (or a group of institutions) that allows researchers and students in that institution to freely access and publish in that publisher’s journals. In exchange, the institution pays an annual fee to the publisher.

Several national research councils and institutes are currently considering pooling resources at the national level to negotiate R&P deals with the major publishers, including in Austria, France and Germany (Green, 2019). CUP has negotiated a number of R&P deals at the national or regional levels, including with the Max Planck Institutes, the Association of Dutch Universities and Academy Institutes, the Bibsam Consortium in Sweden, the Bavarian State Library and, most recently, the University of California. According to the University of Cambridge:

R&P is likely to be one of a set of transitional consortia sales models that are developed over the coming years. … Whatever the flavor, these approaches hold in common a focus on maintaining the critical role that institutional libraries currently play as the conduit for funding the publication of journals. In so doing they offer the prospect of creating a funded, institutionalized OA publishing eco-system, based on the reallocation of money once spent on subscriptions. For fields in which a high proportion of authors have no direct access to grant funding, this provides the potential for a more sustainable and equitable shift towards open publishing. (University of Cambridge, 2019)

The R&P model is sometimes criticized for its lack of transparency (Poynder, 2018; Esposito, 2018) because the details of these deals are rarely made public. A recent study revealed that institutions in Germany paid Wiley approximately 26
million euros for an R&P deal to publish an average 9,500 articles per year at €2750 per article. Dutch institutions, on the other hand, are paying €1600 for a very similar deal with the publisher (Kupferschmidt, 2019).

A related concern about the read and publish model is that it does not necessarily fix the affordability problem libraries are facing. While it does pool costs, it shifts the financial burden elsewhere without actually reducing it. According to some, the R&P system maintains (and encourages) the big publishers’ current business models and serves to “lock their high prices into the new OA environment” (Poynder, 2018).

The asymmetry in the research outputs of different institutions is a further concern (Esposito, 2018). Well-funded universities such as Oxford and Harvard and national consortiums such as the Dutch Academy have much greater bargaining power than smaller institutions. The discrepancy is especially evident for teaching-oriented institutions that are consuming but not necessarily producing articles to the same degree. Unless there is some pooling of resources at the national level, this model may lead to greater polarization between institutions in terms of access to research and capacity to publish.

**Trends in OA publishing**

In March 2019, close to 13,000 academic journals from 129 countries were listed in the Directory of Open Access Journals (DOAJ, 2019). The number of Gold OA journals (with or without APCs) in the Directory has grown exponentially over the past 16 years, from about 300 in 2003 to over 13,000 in 2019. There are currently 4,707 Green OA repositories listed in the Registry of Open Access Repositories (ROAR), including 47 in Canada, 793 in the United States and 1,582 in Europe.

Open Access is a growing phenomenon that requires context. A 2017 report of the Universities UK Open Access Coordination Group using the Scopus database suggests the growth in the number of OA publications has stalled somewhat in recent years. In 2016, 38 per cent of academic journals indexed in Scopus were still under a classic subscription model. Another 45 per cent were under a hybrid model combining subscriptions and OA with APCs, while 15 per cent were entirely Gold OA (the majority of which charged APCs). These trends are confirmed by several studies on OA using different methodologies (Piwowar et al., 2018).

Our own analysis of some of the major Canadian-based HSS journals and international political science journals confirms these trends. There is a clear predominance of the hybrid model (see Table 1). Out of 30 journals surveyed, 21 offer both subscription-based access and Gold OA, with APCs varying from US$750 to US $3,300, for an overall average of US$2,950. Only one major HSS journal in Canada, the *Canadian Journal of Sociology*, operates under a fully OA model without APCs. Three journals, including the SQSP’s *Politique et sociétés*, have adopted an OA model that provides free access to articles after an initial 12-month embargo.

Almost all journals also have a Green OA policy, although there is variation in the version of the article that can be uploaded to a public repository and in the length of the embargo. Under its publishing agreement with CUP, the *CJPS* has a comparatively liberal Green OA policy. Accepted manuscripts (unformatted) can be deposited to an institutional repository without an embargo period. It is
### Table 1. Status of Selected Canadian HSS and International Political Science Journals, 2019

<table>
<thead>
<tr>
<th>HSS Journals (Canada)</th>
<th>Publisher</th>
<th>Impact Factor</th>
<th>Subscription</th>
<th>Gold APC (US$)</th>
<th>Green</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Canadian Journal of Political Science</strong></td>
<td>CUP</td>
<td>0.52</td>
<td>Yes</td>
<td>$2,980</td>
<td>Accepted MS, no embargo</td>
</tr>
<tr>
<td><strong>Anthropologica</strong></td>
<td>UTP</td>
<td>N/A</td>
<td>Yes</td>
<td>No</td>
<td>Accepted MS, 12 months</td>
</tr>
<tr>
<td><strong>Canadian Historical Review</strong></td>
<td>UTP</td>
<td>0.25</td>
<td>Yes</td>
<td>$2,250</td>
<td>Accepted MS, 12 months</td>
</tr>
<tr>
<td><strong>Canadian Geographer</strong></td>
<td>Wiley</td>
<td>1.477</td>
<td>Yes</td>
<td>$2,500</td>
<td>Preprint MS, no embargo, Accepted, 24 months</td>
</tr>
<tr>
<td><strong>Canadian Journal of Economics</strong></td>
<td>Wiley</td>
<td>0.648</td>
<td>Yes</td>
<td>$2,500</td>
<td>Preprint MS, no embargo, Accepted, 24 months</td>
</tr>
<tr>
<td><strong>Canadian Journal of Sociology</strong></td>
<td>U Alberta</td>
<td>0.613</td>
<td>No</td>
<td>Free, no embargo</td>
<td>VoR, no embargo</td>
</tr>
<tr>
<td><strong>Canadian Public Administration</strong></td>
<td>Wiley</td>
<td>0.786</td>
<td>Yes</td>
<td>$2,500</td>
<td>Preprint MS, no embargo, Accepted, 24 months</td>
</tr>
<tr>
<td><strong>Canadian Public Policy</strong></td>
<td>UTP</td>
<td>0.647</td>
<td>Yes</td>
<td>$750</td>
<td>Accepted MS, 12 months</td>
</tr>
<tr>
<td><strong>Canadian Review of Sociology</strong></td>
<td>Wiley</td>
<td>0.896</td>
<td>Yes</td>
<td>$2,500</td>
<td>Preprint MS, no embargo, Accepted, 24 months</td>
</tr>
<tr>
<td><strong>Dialogue: Canadian Philosophical Review</strong></td>
<td>CUP</td>
<td>N/A</td>
<td>Yes</td>
<td>No</td>
<td>Accepted MS, no embargo</td>
</tr>
<tr>
<td><strong>Journal Canadian Historical Association</strong></td>
<td>Érudit</td>
<td>N/A</td>
<td>Yes</td>
<td>Free, 12 mo. embargo</td>
<td>VoR, no embargo</td>
</tr>
<tr>
<td><strong>Politique et sociétés</strong></td>
<td>Érudit</td>
<td>N/A</td>
<td>Yes</td>
<td>Free, 12 mo. embargo</td>
<td>—</td>
</tr>
</tbody>
</table>

### Political Science Journals (International)

| **American Journal of Political Science** | Wiley | 5.22 | Yes | $3,300 | Preprint MS, no embargo, Accepted 24 months |
| **American Political Science Review**    | CUP   | 3.252 | Yes | $2,980 | Accepted MS, no embargo, Accepted 24 months |
| **Australian Journal of Political Science** | T&F   | 0.71 | Yes | $2,950 | Preprint MS no embargo, Accepted, 24 months |
| **British Journal of Political Science** | CUP   | 3.326 | Yes | $2,980 | Accepted MS, no embargo, Accepted, 24 months |
| **Comparative Political Studies**         | SAGE  | 2.919 | Yes | $3,000 | Preprint MS, no embargo, Accepted, 12 months |
| **Electoral Studies**                    | Elsevier | 1.203 | Yes | $1,950 | Preprint MS, no embargo, Accepted, 24 months |
| **European Journal of Political Research** | Wiley | 3.576 | Yes | $3,000 | Preprint MS, no embargo, Accepted, 24 months |
| **European Political Science Review**    | CUP   | 1.755 | Yes | $2,980 | Accepted MS, no embargo, Accepted, 24 months |
| **German Politics Governance**           | T&F   | 1.211 | Yes | $2,950 | Preprint MS, no embargo, Accepted, 24 months |
| **International Organization**           | Wiley | 3.833 | Yes | $3,300 | Preprint MS, no embargo, Accepted, 24 months |
| **International Political Science Review** | SAGE | 1.321 | Yes | $3,000 | Accepted MS, no embargo, VoR on publication, Preprint MS, no embargo |
| **Nations and Nationalism**             | Wiley | 0.679 | Yes | $2,500 | Preprint MS, no embargo, Accepted, 24 months |
| **Politics & Society**                  | Sage  | 1.976 | Yes | $3,000 | Preprint MS, no embargo, Accepted, 12 months |
| **Revue Française de science politique** | PSP   | N/A  | Yes | Free, 12 mo. embargo | — |

(Continued)
also worth noting that there is no clear correlation between OA permissiveness and the impact factor of journals.

If we focus on individual articles rather than journals, we observe a similar but slightly slower uptake of OA. Depending on the methodology used, studies situate the total proportion of OA articles in scientific journals to lie somewhere between 30 per cent and 40 per cent. The European Commission’s most recent report on OA trends (2019) found that 14 per cent of articles published between 2009 and 2017 in Scopus were available via Gold OA (through pure or hybrid journals) and another 24 per cent through Green OA.

The uptake of OA is also not uniformly distributed across disciplines and countries. Open Access adoption is particularly low in the humanities and social sciences, where no obvious business model has emerged to support the cost of publishing quality peer-reviewed OA journals. The discipline of political science has been especially slow to adopt OA, ranking 34th out of 39 disciplines surveyed (European Commission, 2019). For example, between 2009 and 2017, 3.4 per cent of political science articles in the Scopus database were available via Gold OA and another 10.3 per cent via Green OA, compared with 18 per cent and close to 40 per cent respectively for biological sciences. Looking at country-specific data for the same time period, 62 per cent of Canadian-based articles in the database were behind a paywall, placing Canada 32nd out of 36 countries surveyed.

Maximizing the impact of research through its free and immediate diffusion is one of the core arguments for supporting Open Access (Rentier, 2018). Whether authors benefit from publishing in OA or hybrid journals, however, is contested. A recent study by Piwowar et al. (2018) suggests that OA articles are cited 18 per cent more often than non-OA articles but that the impact is not consistent across all OA models. Articles in Green and hybrid OA journals are cited more often on average, while articles in Gold OA journals are, in fact, cited less often on average and even less than articles found behind paywalls. Gold OA arguably suffers from its association with predatory journals (Rentier, 2018). Contested is whether the citation advantage is due to OA or other factors, such as the nature and quality of the different publications (Li et al., 2018).

There are few studies focusing specifically on political science journals, but Atchison and Bull (2015) find a clear citation advantage for articles published in top-ranked political science journals with a liberal Green OA policy. For Canadian HSS journals, Érudit data between 2011 and 2015 suggest that articles with

<table>
<thead>
<tr>
<th>HSS Journals (Canada)</th>
<th>Publisher</th>
<th>Impact Factor</th>
<th>Subscription</th>
<th>Gold APC (US$)</th>
<th>Green</th>
</tr>
</thead>
<tbody>
<tr>
<td>Scandinavian Political Studies</td>
<td>Wiley</td>
<td>0.452</td>
<td>Yes</td>
<td>$2,600</td>
<td>Preprint MS, no embargo Accepted, 24 months Accepted MS, no embargo VoR on publication</td>
</tr>
<tr>
<td>World Politics</td>
<td>CUP</td>
<td>3.25</td>
<td>Yes</td>
<td>No</td>
<td>Accepted MS, no embargo VoR on publication</td>
</tr>
</tbody>
</table>

Note: APC, article processing charge; CUP, Cambridge University Press; HSS, humanities and social sciences; MS, manuscript; PSP, Presses de Sciences Po; T&F, Taylor and Francis; UTP, University of Toronto Press; VoR, version of record.
immediate OA are downloaded 2.3 times more often in the first year versus those under an embargoed paywall; the gap only closes after 5 years (Cameron-Peasant, 2017).

**OA mandates**

Open Access mandates, under which granting agencies make OA a condition for receiving funding, are one of the key drivers of the adoption of OA policies. According to Larivière and Sugimoto (2018), at least 700 research institutions worldwide have mandated some form of OA for the work they support.

In Canada, as of 2015, the Tri-Agency Open Access Policy on Publications requires that peer-reviewed journal publications resulting from Tri-Agency (NSERC, SSHRC or CIHR) grants be freely accessible online (through public repository or directly on the publisher’s website) within 12 months of publication (Government of Canada, 2016). APCs are an eligible research expense for grants from all three agencies. The Fonds de recherche du Québec–Société et culture adopted a similar policy for its own grant recipients in 2019. The CJPS’s hybrid model, which allows Gold OA with APC and the archiving of the accepted version of a manuscript on a public repository (Green OA), is currently compliant with this policy.

The new OA requirements of SSHRC’s Aid to Scholarly Journals (ASJ) grant target journals rather than authors. To be eligible for public funding, journals must make their scholarly content freely accessible on the publisher’s website, either immediately upon publication or with an embargo of no more than 12 months. The value of the grant is calculated based on a fixed rate for each approved peer-reviewed scholarly article to be published during each year of the grant period. SSHRC explicitly promotes the migration of journals to Canadian-based not-for-profit digital content and diffusion platforms, such as Érudit, with additional funding valued at CDN$5,000 per year. The agency does not consider policies allowing the archiving of manuscripts on public self-archiving repositories (Green OA) to be compliant with its new requirements. Journals that received a grant in 2019 have two years to comply with this mandate or they forfeit the final year of funding.

Reaction to SSHRC’s new AJS requirements has been varied. Many OA advocates argue that it is too permissive in that it tolerates embargoes. Publishers and scholarly associations have responded critically, but on different grounds. The Canadian Association of Learned Journals (CALJ, 2019) and a number of journal editors and publishers believe that SSHRC may have underestimated the impact of the policy change on the viability of Canadian HSS journals, ones with a broad international subscription base but a limited capacity to flip to a pure Gold OA with APCs model. The perceived desire to support smaller journals with low production and diffusion costs—ones more easily supported on Érudit-type platforms—comes at the expense of ones with a more global reach and a more substantive subscription base. The inflexibility and one-size-fits-all nature of the policy has also been criticized by a number of Canadian associations and journals. As we discuss below, SSHRC may have also underestimated the destabilizing impact of this shift on scholarly associations such as the CPSA that rely on steady revenues from their journals to support other activities and their members.
**Plan S**

Plan S is an initiative of cOAlition S, a consortium created by the European Research Council that has won support of some of the largest European national funders and a number of charitable funders (Science Europe, 2018). While not yet finalized, Plan S in its current version requires research funded by signatory agencies to be published in journals that make scholarly content immediately accessible, free of charge, to readers. Two OA models are explicitly accepted, Gold (with or without APCs) and Green, so long as a copy of the final manuscript or the version of record of the published article is immediately deposited in a publicly available institutional repository (cOAlition S, 2018). In its current version, Plan S prohibits publication in hybrid journals that maintain a subscription base unless they have a plan to fully transition to OA by 2025.

The impact of Plan S is hard to measure at this point. Its strength lies in its broad endorsement by a number of funders in Europe, but many have faced strong negative reaction from their respective research communities and have backtracked. The short timeline and the lack of a clear transition plan are core concerns, but also noted are the substance of the plan itself and its possible repercussions (Kamerlin et al., 2018; Else, 2018). Publishers of some of the most important scholarly journals, including *Nature* and *Science*, suggest that their upfront costs are too high to abandon subscriptions altogether and that they will not comply with Plan S unless the position on hybrid journals and APCs is softened (Else, 2019).

Others question the impact of Plan S on academic freedom, since researchers receiving funds from agencies that have endorsed the plan will have fewer outlets for publishing their research (British Academy, 2018; CALJ, 2019; AHA, 2019; University of Cambridge, 2019). In 2017, only 15 per cent of scholarly journals indexed in Scopus were Plan S compliant (UUKOAC, 2017). Further, the requirement for an open licence to share and adapt the work for any purpose (including commercial) could take away author rights to intellectual property (LSA, 2018).

Some of the strongest critiques of Plan S come from scholarly associations and journal publishers in the humanities and social sciences. Similar to the new SSHRC ASJ policy, critiques focus on the one-size-fits-all approach in Plan S, a model largely based on the experiences of STEM disciplines (Royal Historical Society [UK], 2019; University of Cambridge, 2019). Because APC-based OA has seen limited uptake in the humanities and social sciences, there is worry that a number of highly valuable and intellectually important journals will come under financial stress. In an open letter on Plan S, a group of HSS journal editors otherwise supportive of OA argue that Plan S “offers no suitable mechanism for the HSS community to transition their publications on a large scale to sustainable forms of open access” (Plan S Open Letter, 2018). Since a majority of researchers in the humanities and social sciences are unable to pay APCs, they argue that “it is impossible for existing subscription journals to flip to an author-pays model.” They further point to the fact that HSS journals normally serve relatively small research communities, often national in focus. They therefore cannot rely on high volume based on APCs to compensate for the loss of subscription revenues. A number of academic societies, editors and publishers in the humanities and social sciences have highlighted similar concerns, among them the Canadian Association of Learned Journals.
As in Canada, concerns have been raised about the unintended consequences of Plan S on the ecosystem of national HSS societies. As the CALJ (2019) argues, “many scholarly journals in the social sciences and humanities (SSH) are published by not-for-profit scholarly societies, small and medium sized not-for-profit publishers, and university presses” that rely on subscription income to offer a broad range of services.

**Potential Scenarios for the Journal and Other Canadian Journals in HSS**

Canadian journals similar to the *CJPS* will have to adapt their business models in light of OA and the changes it requires of academic publishing. The medium- to long-term impact of SSHRC’s new requirements for ASJ grants and of more ambitious blueprints such as Plan S are difficult to predict. While currently in good financial shape, the *CJPS* has experienced declining income from subscriptions and licensing rights and such a trend is likely to continue. Additionally, the journal is facing an increasingly competitive environment. It seems safe to assume that the changing landscape of scholarly publishing and more stringent OA mandates are likely to add additional stress over time.

The *CJPS* is not alone in this. Informal exchanges with peer associations that publish similarly profiled Canadian journals suggest that all are struggling to find an appropriate and feasible response. Some have chosen to forgo the SSHRC grant to continue with subscription-based models. Others are considering adapting their model to minimally comply with the ASJ’s policy. A few are considering moving to a fully Gold OA model.

In the end, scholarly association–owned journals have to tread carefully to balance the inherent value of OA for the research community they serve with its potential impact on their reputation, quality and business model. Journals must be realistic about their capacity to reinvent themselves without significantly impacting their financial position and, by extension, that of their parent associations. Scholarly associations similar to the CPSA that rely on their journals for a significant proportion of their revenues may ultimately have to consider alternative sources of revenue to maintain their current activities.

To make an informed choice, Canadian journals need to know their constituencies. Each one is unique in this respect. Who reads the articles they publish and how do they access them? Is their readership largely Canadian or is it more international? What is the “life cycle” of an article published in the journal? Would an OA embargo period of 6 to 12 months have a major impact on accessibility or on the desirability of subscriptions? What about authors? Are authors mostly based in Canada and therefore more susceptible to Canadian granting agencies’ policies? What percentage of authors are graduate students or early career academics with potentially less access to funding to cover APCs? We know that the uptake of existing OA options by *CJPS* authors and of Green OA options in Canada have been particularly low. Is this a common trend across disciplines?

These are fundamental questions that many Canadian associations, including those in the political science community, will have to answer in the long term.
In the short term, several options can be identified for moving forward in light of new OA mandates; a good level of uncertainty nevertheless remains as to their feasibility and likely impact. We present the options here for consideration.

1) Adopt a Gold OA model
A shift to a Gold OA model is an “all-in” scenario, under which journals fully embrace Open Access. This is the riskiest scenario in both the short and long terms but the one most fully consistent with OA principles. It may well become increasingly adopted by political science or other HSS journals in the future, but to date very few have adopted an entirely Gold OA model, either with or without article processing charges. There is little evidence that the “pure gold” APC model is viable in the humanities and social sciences, except possibly for new journals that have yet to develop an established readership and without a long-held reputation such as that enjoyed by the CJPS. With some exceptions, these tend to be either niche journals that serve a specific purpose and audience or mega-journals that publish large numbers of articles (sometimes a few hundred a year) on a broad array of topics. There are also, of course, a growing number of APC-based journals in the HSS that are predatory journals, with low or no peer-review standards. Ultimately the key concern under this model is the capacity and willingness of our authors, especially graduate students, junior faculty and unaffiliated researchers, to pay APCs.

A clear, sustainable path to implementing Gold OA may well emerge in the coming years. Read and publish deals may, for example, evolve into a sustainable, more systematic model. For now, we believe that there are greater risks than benefits for journals with profiles similar to the CJPS in adopting full Open Access, with or without APCs.

2) Move to an OA-friendly Canadian-based platform
While a move to Gold OA is not viable for journals like the CJPS in the short term, they could consider embracing SSHRC’s preferred course of action and move operations to a Canadian-based digital platform for editorial and diffusion purposes. Érudit is the most obvious option among several alternatives, and it returns approximately 75 per cent of subscriptions and licensing rights income to its journals. As mentioned, SQSP’s Politique et sociétés uses the Érudit platform, a move that allowed the journal to access professional editing tools and software and facilitated production of a high-quality journal at minimal cost. Politique et sociétés is a hybrid journal employing subscription with a 12-month OA embargo. As such, the journal is compliant with SSHRC’s ASJ requirements, although not with the proposed Plan S in its current form.

This option nevertheless has several disadvantages. The CJPS, for one, is a fundamentally different journal than Politique et sociétés. Although bilingual, the CJPS is a member of the English-speaking scientific community and therefore its market and reach are vastly different. This is reflected in the greater size of its readership and its subscription base. A key consequence of a move to Érudit or an equivalent Canadian-based platform would be to jeopardize the established international reach.
of the journal. Canadian not-for-profit platforms cannot compete at this point in time with publishers such as CUP in terms of promotional services, data analytics and access to international markets.

3) Maintain the status quo

Another option is simply to adopt a “wait and see” approach and adjust as needed. There is no clear risk-free option available for journals such as the CJPS under OA, and given that the hybrid model that is currently adopted by most journals works, there seems little incentive to change it. The risk is to lose access to potential authors in the medium term, including European researchers needing to abide by the requirements of Plan S by 2025. More significantly, it also means forfeiting the SSHRC ASJ grant as of 2021. Not all journals and associations are in a position to absorb such a significant and immediate financial loss.

There is nonetheless a certain degree of comfort with the familiarity of the status quo. The financial implications are not insignificant but at least they are predictable. This is the approach chosen by some Canadian journals, including the Canadian Journal of Economics, that have decided not to renew their SSHRC ASJ grant. In addition to immediate financial stress, this option also sends a strong message of resistance to the OA movement. Open Access has its disadvantages, but it nevertheless embodies a set of values that scholarly associations such as the CPSA and SQSP share in terms of diffusion and access to publicly funded research. Staying the course also potentially puts the journal on a path that may be hard to reverse over the long term, as the OA landscape continues to evolve.

4) Adopt an incremental approach

An additional option is to approach OA requirements with an open but cautious mind. As shown, a number of HSS journals have already moved to a hybrid format that includes a fairly liberal Green OA option for authors. There is no evidence that this has negatively affected their subscriptions (unlike the impact of reductions in library budgets), although it may affect royalties from rights and permissions in the long term.

Journals such as the CJPS may therefore opt to adapt to the new SSHRC AJS requirements, without entirely forgoing their subscription model. This would mean keeping their current hybrid model, with Green and APC options, while giving free access to articles after a 12-month embargo, beginning in 2021. Under this model, previously published articles would remain gated and continue to generate revenues from subscriptions as well as reproduction rights. The journal would remain eligible for the SSHRC grant, pending any additional policy changes.

There is a risk that adopting a 12-month embargo will negatively affect institutional subscriptions over time, but this impact is unlikely to be felt immediately, given that institutions will likely be slow to adjust to the change. The impact on subscription revenues will be somewhat mitigated for journals like the CJPS that are part of a publisher’s subscription bundle, under which institutions subscribe to a large number of journals in a package deal rather than individually. The
greatest impact of this option will likely be felt after a few years, when the number of freely available articles reaches a critical mass. Revenues from licensing and reproduction rights will then start to decline. Based on CUP’s projections, the CJPS revenue losses are estimated at 15 per cent over the next five years under this scenario (CUP, 2019).

Adopting an incremental approach involves some uncertainty, but it provides journals with an ability to adjust as necessary along the way. Should the financial impact be greater than anticipated, the 12-month embargo could be reconsidered. This flexibility is absent under the full OA option, which is much harder to reverse once subscriptions have been eliminated. This option also allows for the development of alternative approaches to classic subscriptions, such as read and publish deals.

Conclusion

Journals and their parent associations are making their own choices, based on their unique circumstances. Our assessment suggests that while Open Access is a positive development that should be actively supported, it comes with important challenges. In the absence of a clear, viable business model under OA, we believe an incremental approach is the best option in the short term for the Canadian Journal of Political Science. This option may not be best for all journals.

Regardless of how journals and their proprietary associations choose to move forward, we believe that a concerted effort is required to impress upon SSHRC and other funding agencies that while the shift to OA is overall a positive one, it necessarily has negative repercussions for the ecosystem of scholarly communities in Canada.

Through their journals, annual conferences and other activities, scholarly associations such as the Canadian Political Science Association develop a sense of community among Canadian researchers and support students and junior researchers in developing their own networks. The work of these associations will undoubtedly be affected if their journals come under financial stress and they lose a predictable source of income. SSHRC and other funding agencies may want to consider additional transition measures for journals that are tied to scholarly associations, as well as alternative mechanisms for supporting the work of such associations in the medium to long term. The Canadian research community will not be well served should the OA policies of funding agencies result in an overall weakening of Canadian journals and the scholarly associations that they support.

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Notes

1 The complete report is available in both English and French on the website of the Canadian Political Science Association (https://www.cpsa-acsp.ca).

2 Documents employed in the preparation of this section include Graham White’s review article published in the 50th anniversary issue of the CJPS (White, 2017), annual reports prepared by Cambridge University...
Press for the CPSA, annual reports prepared by the English and French language co-editors of the CJPS, and financial reports from the CPSA.

3 Martin J. Bull (2016) notes that the UK’s Political Studies Association saw its income from the publisher of its journals rise from £126,084 in 2000 to £511,279 in 2014, representing more than half of the association’s revenues. A similar pattern is observed for the American Political Science Association.


5 CUP has adopted a policy to limit this double-dipping effect. It is available at: https://www.cambridge.org/core/services/open-access-policies/open-access-journals/double-dipping-policy.

References


