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## SCIENTIFIC COMMUNICATION

## ORCID and its configuring with OJS to accurately credit researchers for their work

S. Sadler

ORCID, Calgary, Canada

✉ [s.sadler@orcid.org](mailto:s.sadler@orcid.org)

**Abstract:** This article provides a short introduction to ORCID and discusses the value of ORCID to researchers, publishers and editors, and research institutions. Here we provide some data about current rates of ORCID adoption around the world and we cover how our different APIs can be used with the ORCID/OJS plugin, and outline some concrete steps that both ORCID members and non-members can take to enable the ORCID/OJS plugins.

**Keywords:** ORCID, PKP, OJS, identifier, open identifier, attribution, administrative burden

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## НАУЧНЫЕ КОММУНИКАЦИИ

## Идентификатор ORCID и его использование в системе OJS для точного установления авторства научных работ

Ш. Сэдлер

ORCID, г. Калгари, Канада

✉ [s.sadler@orcid.org](mailto:s.sadler@orcid.org)

**Резюме:** В данной статье автор приводит краткое описание идентификатора ORCID, а также рассматривает преимущества его применения для исследователей, издателей, редакторов и научно-исследовательских организаций. Приведены некоторые данные по темпам внедрения и использования ORCID в мире, рассмотрено, как различные интерфейсы прикладных программ (API) могут использоваться совместно с плагином ORCID/OJS, а также описаны некоторые конкретные действия, которые могут предпринять как члены, так и не члены ORCID для того, чтобы начать использовать плагин ORCID/OJS.

**Ключевые слова:** ORCID, PKP, OJS, идентификатор, открытый идентификатор, авторство, администрирование

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### Introduction

ORCID (Open Researcher & Contributor ID) enables transparent and trustworthy connections between researchers and their published works, ensuring they get credit for their work [1–3].

ORCID has partnered with PKP to develop a plugin for the Open Journal System (OJS) that connects the author's ORCID iD to the published works. This plugin helps journal editors attribute the work to the correct author, and write the ci-

tation to the author's ORCID record, which is an exciting opportunity to further disseminate the work of your journal.

Accurate attribution and reduction of administrative burden for both authors and editors is a key benefit of the ORCID/Open Journal Systems (OJS) plugin, which is available to any organization using OJS, whether they are an ORCID member or not. Uptake of ORCID amongst researchers is growing rapidly in Russia and surrounding countries, and with very little effort, organizations can enable the ORCID/OJS plugin, unlocking a great deal of value and benefits not only for researchers, but for publishers and editors, and research institutions as well.

### ORCID Connects Research and Researchers

ORCID, which stands for Open Researcher and Contributor ID, is an integral part of the digital infrastructure needed for researchers to share information on a global scale. We are a global, not-for-profit organization, community-built and governed by a [Board of Directors](#).

ORCID's vision is a world where all who participate in research, scholarship, and innova-

tion are uniquely identified and connected to their contributions across disciplines, borders, and time.

In order to realize our vision, ORCID strives to enable transparent and trustworthy connections between researchers, their contributions, and their affiliations as they engage in research, scholarship, and innovation activities by providing three interrelated services:

1. The ORCID iD: a unique, persistent identifier free of charge to researchers.
2. An ORCID record connected to the ORCID iD.
3. A set of Application Programming Interfaces (APIs), that enable interoperability between systems.

### ORCID and the scholarly community

ORCID's community encompasses several different groups of stakeholders, each of which stands to gain particular value from ORCID. The ORCID/OJS plugin can benefit Researchers, Editors and Publishers, Universities and Research Institutions (Fig. 1).

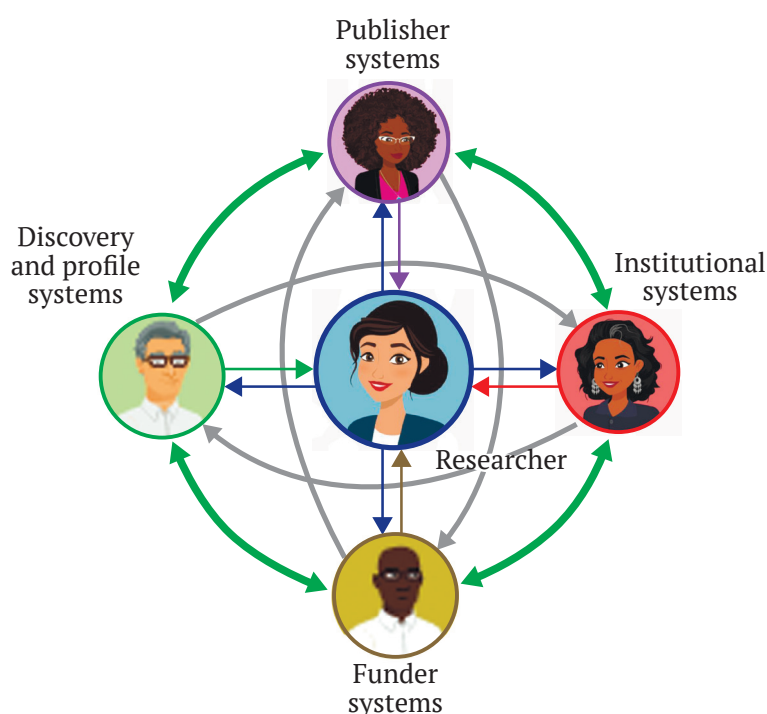


Fig. 1. ORCID and the scholarly community

## Researchers

ORCID positions the researcher at the center of everything we do, so confidence and trust is important to us. We have controls, policies, and practices in place so that data are controlled by researchers, and the provenance of each connection is clear and easy to understand. An ORCID iD (and accompanying record) is free of charge for researchers, forever. ORCID makes all research information accessible via the researcher's own unique profile, and the more systems are connected to ORCID, the more easily researchers can re-use their data wherever they need it. In OJS, researchers can include their ORCID iD in their profile, which will pre-populate forms and automatically include the iD on their publications.

- **More time for research:** Researchers will have more time to spend conducting their research, and will spend less time managing it. They can fill out forms automatically, whether manuscript submissions or grant applications.

- **Portable profile data:** ORCID allows for increased flexibility in the tools they use - whether for funding, publications, data repositories, or other systems for research contributions. Their data can be easily moved between systems to avoid being locked into proprietary services.

- **Reduced administrative burden:** Researchers will experience greater ease managing and sharing their contributions with an increasing number of systems. They will spend less time rekeying data!

- **All their research in one place:** Researchers will be able to easily see all their research activities in one place - affiliations, funding, publications, and other contributions.

- **Name disambiguation:** ORCID lets researchers claim credit for their work, no matter how many people have their same (or similar) name.

- **Name flexibility:** ORCID helps support life changes — we aim to reduce the detrimental effects of name changes so researchers will no longer be limited to the name they used when they began their career.

## Editors and Publishers

Though researchers always control the data visibility within their records, ORCID helps ensure the integrity of the submission and review process by providing trustworthy information about researchers' affiliations, prior publications, and funding history. In OJS, editors and publishers can easily activate the free ORCID/OJS plugin, and with ORCID membership, citations will be written to the author's ORCID record, citing your journal as the source of this data.

- **OA Policy Compliance:** ORCID can help with Open Access (OA) policy and [transformative agreement](#) (TA) management and compliance by acting as an open, trustworthy source of affiliation data.

- **Better reviewer selection:** More complete author metadata assists editors with the reviewer selection process and helps them discover conflicts of interest. When recruiting new reviewers, editors can assign reviews based on previous contributions and activities, even across publishers.

- **Peer review recognition:** Acknowledge reviewers' expertise and provide recognition for their service.

- **Interconnected infrastructure:** Extend the reach of your systems when you push publication and profile data into ORCID, and make your metadata more accessible and reusable through the standardized identifiers and open APIs.

- **A more consistent experience:** Letting your users sign in with ORCID reduces the frustration and burden of managing multiple credentials and saves time during submission, review, and reporting.

- **Enhanced discoverability for your authors:** Writing publication metadata into the ORCID registry makes it more likely for your authors to be discovered and helps them claim credit for their work.

## Universities and Research Institutes

ORCID allows universities and research institutions track the research impact that comes from their scholars – while making their lives easier.

- **Interconnected infrastructure:** Extend the reach of your systems by contributing affiliation and employment information to an open, interconnected registry. By doing so you can help improve transparency in the understanding of research, while consuming open metadata increases your flexibility around tools and services and avoids lock-in to proprietary systems.

- **Reduced administrative burden:** Even in critical processes like assessment exercises you can increase both efficiency and quality of your researcher's data. Avoid time spent re-keying data during submission, review and reporting. Improve morale of researchers and administrative staff.

- **Improved visibility of outputs:** Making sure work produced at your institution is correctly attributed in researchers' ORCID records improves the visibility of your outputs and ensures your researchers get the recognition they deserve.

- **Name disambiguation:** Have confidence that you have correctly identified contributions from your researchers regardless of the popularity or variability of their name.

- **Better connection with alumni:** Keep track of researchers' careers and understand their impact. Follow your researchers' careers after graduation, during sabbatical, or even as they move into new positions at different institutions.

- **Increased research ROI:** Increase your return on investment by better understanding the full impact of your researchers — combined with richer evidence to support decision making.

### ORCID/OJS plugin available to all users of OJS

Any organization using OJS has access to the ORCID/OJS plugin, and we encourage you to enable it whether you are an [ORCID member](#) or not. There is a slight difference in how this works between members and non-members though: ORCID member organizations have access to the ORCID Member API, and non-ORCID members can use the ORCID Public API for free. (For organizations publishing multiple journals, one ORCID API key can be used to turn on the plugin across multiple OJS installations.)

With ORCID's Public API that is freely available to non-members, **ORCID will read from ORCID records to your system.** That is, ORCID will authenticate (verify) researchers and peer reviewers and share their ORCID iDs with your system for administration and publication. The authenticated ORCID iDs appear next to author names in OJS publications to ensure each author is uniquely identified. For publications with multiple authors, the plugin includes the ability to send ORCID authorization links to co-authors via email so that each contributor can connect their authenticated ORCID iD with the publication and get credit for their work.

Though any organization using OJS can use the ORCID Public API for free, **ORCID membership enables your system not only to read from but write to ORCID records.** As an ORCID member, you will be able to write the citation to the author or peer reviewer's ORCID record. Adding publication metadata to each author's ORCID record helps to build an authoritative, trustworthy record of publication activities for authors, while helping them save time and reduce administrative burden. You can find out more about becoming an ORCID member [here](#).

#### ORCID Member API<sup>1</sup>

- Available to ORCID members;
- Read data from ORCID records;
- **Write data to ORCID records and build an authoritative, trustworthy record of publication activities.**

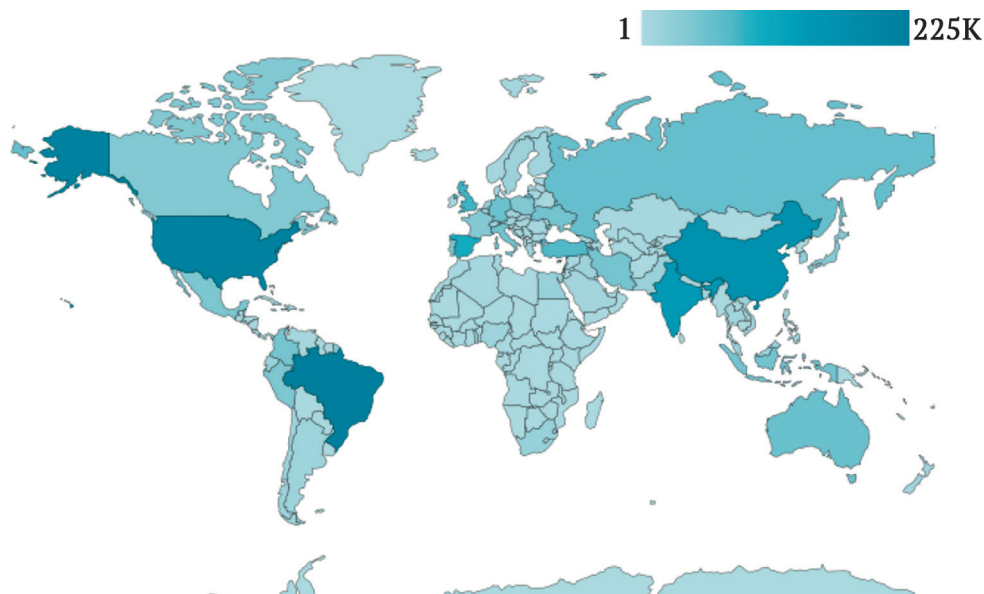
#### ORCID Public API<sup>1</sup>

- Free, openly available;
- Read data from ORCID records.

### ORCID Adoption worldwide

Global uptake of ORCID is inherent in our mission, and our current member organizations agree that it is important that ORCID is adopted around the world. There is already significant uptake of ORCID by researchers in Russia and surrounding countries, and organizations in Russia can help them by adopting ORCID as well. Nearly 13 Million ORCID iDs issued (Fig. 2).

<sup>1</sup> Only one ORCID API key is needed to activate the plugin for the local OJS platform which can support multiple journals.



*Fig. 2. ORCID adoption (as of November, 2021)*

Number of researchers with an ORCID iD

- Russia: 95,059
- Ukraine: 51,572
- Kazakhstan: 7,791
- Belarus: 5,211
- Uzbekistan: 4,484
- Azerbaijan: 1,884

Publishers adding Peer Reviews to ORCID records

- Publons 2,613,206
- Springer Nature 1,105,098
- American Chemical Society 858,486
- Multidisciplinary Digital Publishing Institute 279,445

- Nature Publishing Group 117,992
- Wiley 63,341
- PLOS 59,741
- F1000 27,402
- BMJ 23,893
- GEMS 23,570

Top 10 ORCID adopters & their researchers

- University of Oxford 32,604
- Massachusetts Institute of Technology 21,834
- University of Cambridge 18,356
- Universidade de São Paulo 16,533
- University of Michigan 15,608
- University College London 15,525

- IEEE 13,470
- Universidade Estadual de Campinas 12,744
- Universidade Federal do Rio de Janeiro 12,237
- Universidad Complutense de Madrid 12,200

## Conclusion

ORCID seeks to reduce administrative burden for researchers and help organizations understand the impact of the research they are facilitating or funding by providing tools that enable transparent and trustworthy connections between researchers, their contributions, and affiliations. One such tool is the OJS/ORCID plugin, which has been adopted widely by the OJS community with great success. It is readily available to organizations that use OJS and we encourage you to enable it!

## Resources to enable your ORCID/OJS plugin

**For ORCID members:** [Reach out to us](#) to find out about how to enable your ORCID/OJS plugin. This will not only allow you to read data from ORCID records, but will enable you to write data to ORCID records as well.

**For organizations that aren't ORCID members:** Find out more about [ORCID mem-](#)

bership or access ORCID's [Public API](#), which will allow you to read data from ORCID records.

Regardless of if you are an ORCID member or not, there are other documents and resources available to you. OJS and ORCID have long worked together to enable ORCID iDs and realize the value and benefits discussed above

for both authors and editors. Recently, as a joint-initiative, PKP and ORCID have released updated documentation and a demonstration video to help OJS administrators configured ORCID into their OJS systems, <https://info.orcid.org/implementing-your-orcid-plugin-for-ojs-ops-help-is-here/>

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## INFORMATION ABOUT THE AUTHOR

**Shawna Sadler**, Engagement Manager, Outreach & Partnerships, ORCID, Calgary, Canada; <https://orcid.org/0000-0002-6103-5034>; s.sadler@orcid.org

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## ИНФОРМАЦИЯ ОБ АВТОРЕ

**Шона Сэдлер**, менеджер по взаимодействию и партнерским отношениям ORCID, г. Калгари, Канада, <https://orcid.org/0000-0002-6103-5034>; s.sadler@orcid.org

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