em Editorial Manager®

Editorial Manager CRediT Integration

CRediT

Aries systems
Publish Faster. Publish Smarter.

Introduction

Each year research funders spend $1.7 trillion on new research. Understandably, funders seek accountability for this investment and look to scholarly publishers to assist in the collection of relevant data during submission and peer review.

Historically, authors of research manuscripts are identified by name with some imputed level of contribution derived from publication name order (which varies by subject field). This does not provide sufficient accountability and granularity for research funders. For this reason manuscript contributors are increasingly identified by their ORCID ID, and the CRediT taxonomy provides a way to flag individual levels of contribution.

Editorial Manager is a web-based online submission and peer review system used by thousands of scholarly journals to process millions of submissions each year. Editorial Manager (Version 13) now offers support for CRediT.

What is CRediT?

The Contributor Roles Taxonomy Project (Project CRediT) emerged to address recognition that the concept of 'authorship' in scholarly publishing is outdated and no longer fit for purpose. Project CRediT aims to provide transparency to the contributions of researchers to scholarly published works, in order to better enable discoverability and improve attribution, credit and accountability.

The result of the working group is a high-level taxonomy, including 14 roles, that could be used to represent the roles typically played by contributors to scientific scholarly output. The roles describe each contributor's specific contribution to the scholarly output. See reverse (or table) for a complete listing of roles and their definitions.

The taxonomy has been refined by Consortia Advancing Standards in Research Administration (CASRAI) and National Information Standards Organization (NISO). It is in adoption by Cell Press and other publishers, and has been integrated with Version 13.0 of Editorial Manager.

Contributor Role	Role Definition
Conceptualization	Ideas; formulation or evolution of overarching research goals and aims.
Methodology	Development or design of methodology; creation of models.
Software	Programming, software development; designing computer programs; implementation of the computer code and supporting algorithms; testing of existing code components.
Validation	Verification, whether as a part of the activity or separate, of the overall replication/reproducibility of results/experiments and other research outputs.
Formal Analysis	Application of statistical, mathematical, computational, or other formal techniques to analyze or synthesize study data.
Investigation	Conducting a research and investigation process, specifically performing the experiments, or data/evidence collection.
Resources	Provision of study materials, reagents, materials, patients, laboratory samples, animals, instrumentation, computing resources, or other analysis tools.
Data Curation	Management activities to annotate (produce metadata), scrub data and maintain research data (including software code, where it is necessary for interpreting the data itself) for initial use and later reuse.
Writing – Original Draft Preparation	Creation and/or presentation of the published work, specifically writing the initial draft (including substantive translation).
Writing – Review & Editing	Preparation, creation and/or presentation of the published work by those from the original research group, specifically critical review, commentary or revision – including pre- or post-publication stages.
Visualization	Preparation, creation and/or presentation of the published work, specifically visualization/data presentation.
Supervision	Oversight and leadership responsibility for the research activity planning and execution, including mentorship external to the core team.
Project Administration	Management and coordination responsibility for the research activity planning and execution.
Funding Acquisition	Acquisition of the financial support for the project leading to this publication.

Benefits of CRediT adoption

- Accuracy & transparency – Granular and standardized capture of contributor roles
- Enables better reviewer selection – Editors can better select appropriate reviewers
- Impact – Improved and more accurate measurement of individual impact

Frequently Asked Questions

Can one person contribute more than one activity?

Yes, for each author/contributor the submitting author can identify one or more contributor terms.

Is the level of contribution shown?

Yes, journals can activate the 'degree of contribution' option that allows the level of contribution to be identified: 'lead', 'equal', or 'supporting'.
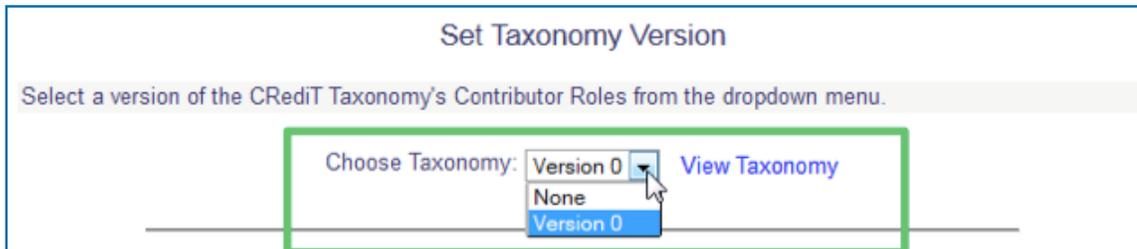
Do you anticipate this being a mandatory taxonomy?

Journals can select to make the taxonomy mandatory or optional based on article type.

How can I activate CRediT in Editorial Manager?

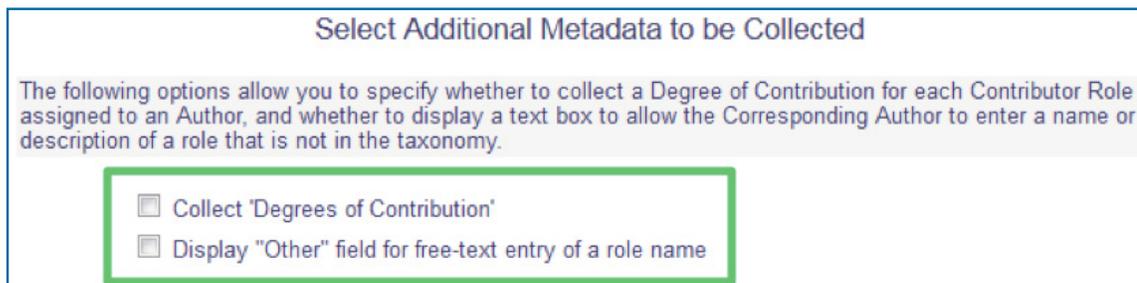To activate CRediT in Editorial Manager (Version 13.0):

Within Policy Manager, a 'Configure Contributor Roles' page has been added. First, activate the version of CRediT you want to use:

Decide if you want to allow "degrees of contribution" ("equal", "supporting", or "lead") selectable:
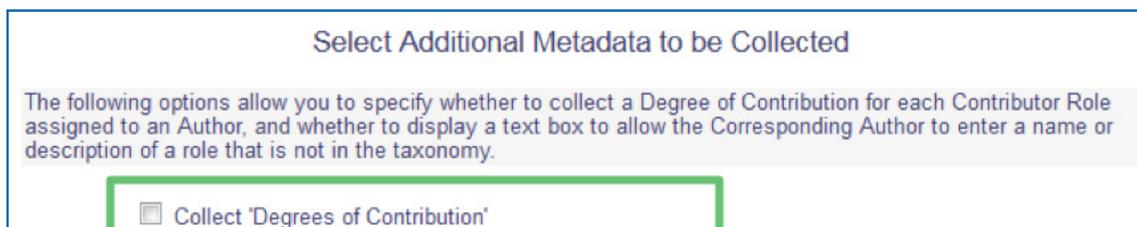
Decide if you want to allow "other" to be selectable:

Select the Article Types for which CRediT should be available: (CRediT is obviously not applicable to certain types of submission such as book reviews, letters to the editor, etc.)
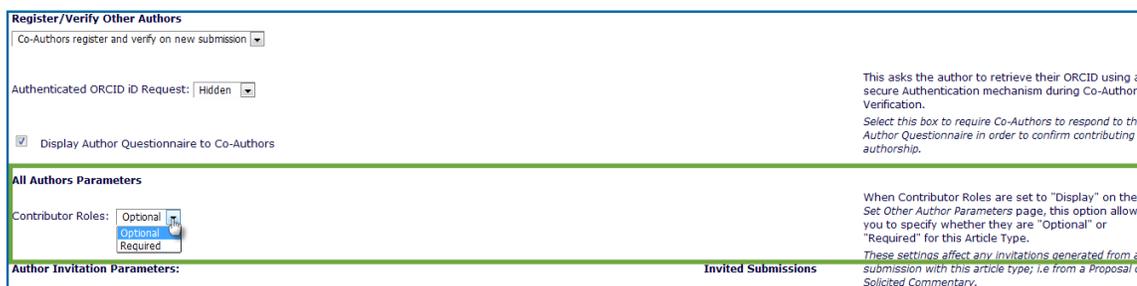
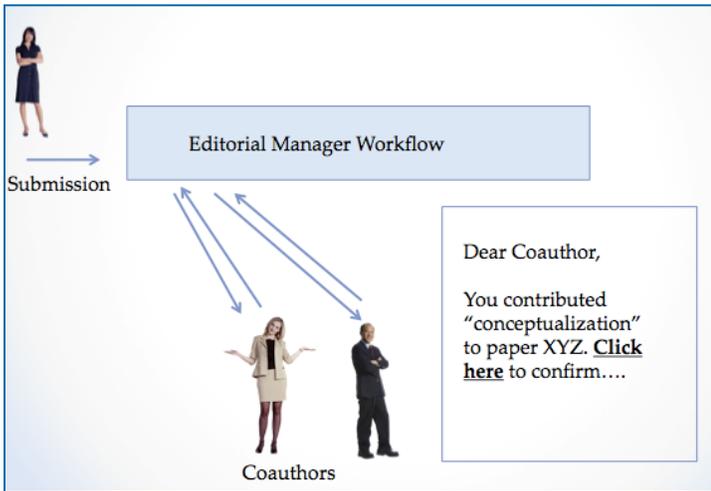CRediT terms can now be collected for Authors and Co-Authors:

How does Editorial Manager notify co-authors so that they can confirm participation?

Can CRediT terms be viewed in-workflow?

Yes, the author details page is enhanced to display the CRediT taxonomy terms for each contribor.

Can CRediT be output in XML?

Yes, the JATS XML output from Editorial Manager and ProduXion Manager can include the CRediT terms.

```
<contrib contrib-type="author">
    <role content-type="1" /> [indicates Author Rank]
    <role content-type="Conceptualization"/> [indicates Contributor Role]
    <role content-type="Funding Acquisition [indicates Contributor Role]
    <role content-type="Methodology"/> [indicates Contributor Role]
    <name>
```