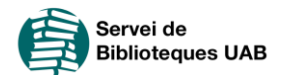




Open Science

Training activity - 27th September 2023



Marta Jordan. Biblioteca de Ciència i Tecnologia



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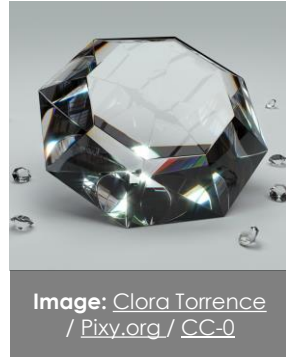
Open access to research publications

- Open access routes
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- Grant agreement requirements

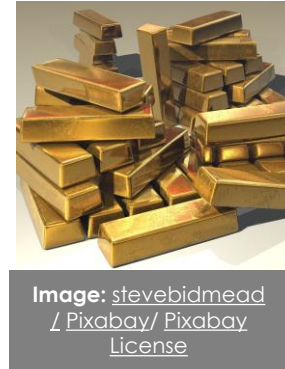
Open research data

- What is it?
- FAIR principles
- Good practices
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Open access routes



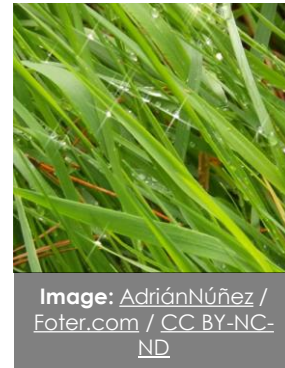
Diamond



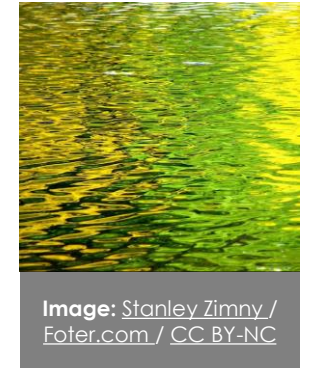
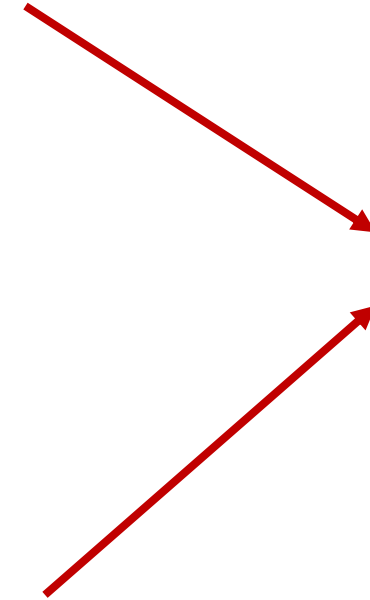
Gold



Bronze



Green



Hybrid

Bronze and green... how can be open?

A trusted digital repository is one whose mission is to provide **reliable, long-term access to managed digital resources** to its designated community, now and in the future.

OCLC - 2002

Publishers' policies



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<http://www.sherpa.ac.uk/romeo/>

Science of the Total Environment

Publication Information

Title	Science of the Total Environment (English)
ISSNs	Print: 0048-9697 Electronic: 1879-1026
URL	https://www.journals.elsevier.com/science-of-the-total-environment
Publishers	Elsevier [Commercial Publisher]
TJ Status	Plan S Approved Jisc Approved

Publisher Policy

Open Access pathways permitted by this journal's policy are listed below by article version. Click on a pathway for a more detailed view.

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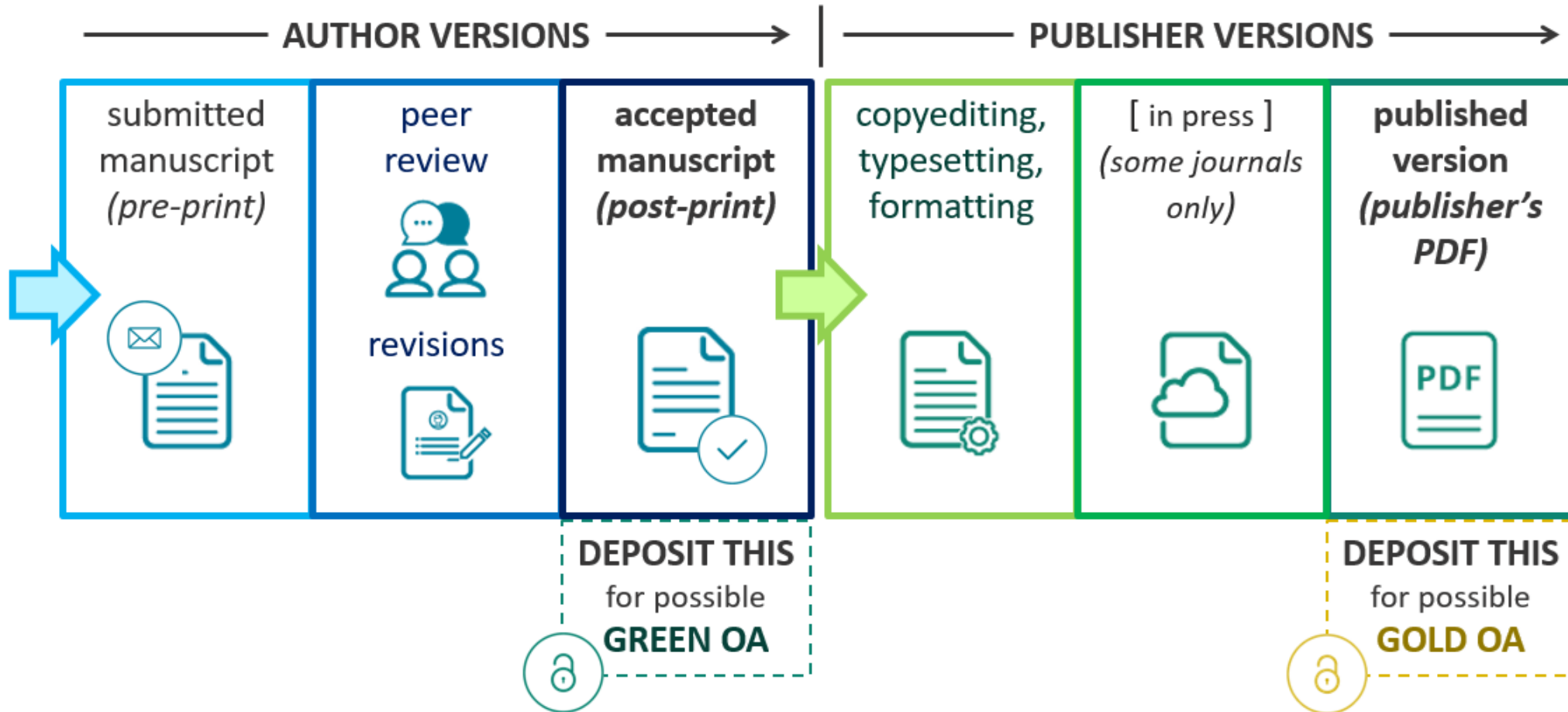
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Article versions





1 The Version of Record of this manuscript has been published in the *Journal of Environmental*
2 *Management* and available here :

3 <https://doi.org/10.1016/j.jenvman.2017.03.067>

4
5 **Biomolecules from olive pruning waste in Sierra Mágina**

6 **Engaging the energy transition by multi-actor and multidisciplinary analyses**

7 Marianne Cohen¹, Gilles Lepesant², Farida Lamari³, Clelia Bilodeau⁴, Petra Benyei⁵, Stéphane Angles⁴,
8 Julien Bouillon⁶, Kevin Bourrand⁶, Ramla Landoulsi^{1,6}, Delphine Jaboeuf^{1,6}, Maria Alonso-Roldan⁷,
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26 **Keywords:** Biorefinery, Pyrolysis-GCMS, Waste reduction, Low-carbon olive-growing systems,
27 Pathogenic strain, EU policy.

28

29

Potential Carbon Leakage under the Paris Agreement

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³ School of Business and Economics & Institute for Environmental Studies, VU University Amsterdam, The Netherlands

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Abstract

Carbon leakage is the effect of emissions transferring to certain countries due to others having a stricter climate policy. This phenomenon is shown to have undercut the effectiveness of the Kyoto Protocol. Considering the increasingly globalised nature of the world economy, carbon leakage may have an even greater potential under the Paris Agreement some fifteen years later. Although a more global approach to combatting climate change, the Paris Agreement is susceptible to leakage because of its lack of policy harmonization and enforcement mechanisms. Here we perform the first quantitative analysis of the potential for carbon leakage under Paris, using the GTAP-E general equilibrium model of the world economy with energy and carbon emissions to analyse leakage effects under six scenarios. Two of these scenarios analyse regions implementing climate policy in isolation, two greater participation, but still not harmonized, global Paris Agreement policy, and a further two analyse the effect of a US withdrawal from the agreement. Both cases are considered with and without the US withdrawal. Our analysis demonstrates that there is potential for significant carbon leakage effects, in line with the rates produced from studies on the Kyoto Protocol. Depending on model elasticities, we find medium carbon leakage in the range of 1-9% (with a central estimate of 3-4%) under co-ordinated Paris Agreement policy across countries, compared to high leakage of 8-31% when countries operate in isolation. However, scenarios where the US withdraws from the agreement result in roughly doubling of leakage rates, in the range of 3-16% (central estimate 7%), which demonstrates the vulnerability of the Paris Agreement in its current form. To limit leakage effects greater policy co-ordination to achieve consistent implicit carbon prices is needed across countries.

Proper Accepted Version

Open access funding

UAB researchers enjoy the agreements with some publishers to publish in 5.500 journals free of charge (the UAB pays the cost of the APCs).

This journal list is composed predominantly by Hybrid journals.



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Grant agreements and publishers' policies

Before submitting the article, you must check if the publisher policy fulfils the requirements about open access required by your funder or the law.



ICTA and the UAB institutional repository



ICTA - Institut de Ciència i Tecnologia Ambientals



The Institute of Environmental Science and Technology at the Universitat Autònoma de Barcelona (ICTA-UAB) is a multidisciplinary centre that promotes academic research and postgraduate education on environmental sciences. It aims to improve our understanding of global environmental change, and the nature and causes of environmental problems. In addition, it studies policies, strategies and technologies to foster a transition to a sustainable economic and societal model.

The ICTA-UAB addresses major global environmental and sustainability challenges related to anthropogenic climate and global change. Researchers at ICTA-UAB undertake advanced research in specific areas of environmental science, divided into three general areas, namely "Earth and life sciences", "Social environmental sciences" and "Technology, environment and society".

About the Unit of Excellence María de Maeztu ICTA-UAB is the only research centre in environmental sciences to be identified as a Unit of Excellence by the Spanish Ministry of Economy and Competitiveness (MINECO), the highest institutional recognition of scientific research in Spain.

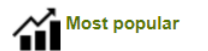
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Open access to research publications

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Open research data

- What is it?
- FAIR principles
- Good practices
- The Data Management Plan
- Grant agreement requirements

What is it?

According the European Comission:

- Refers to information, **facts** or **numbers**
- Collected to be **examined** and **considered**
- As a basis for **reasoning**, **discussion** or **calculation**

Types of research data

- Data generated in the research process or **primary data**: it needs to be sorted and documented, and assessment is required when data contains personal or sensitive information.
- Data related to published results or **final data**: it needs to be identified in order to assure its access and reuse.

FAIR principles



Findable:

- ✓ Persistent identifier: DOI (preferably) and/or URI
- ✓ Publication in institutional or subject repositories. Data must be described according to international standards.
- ✓ All data registered in repositories must be indexed and searchable

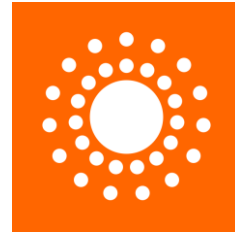
FAIR principles



Accessible:

- ✓ Data and metadata retrievable and harvestable: repositories must work with open and standard communication protocols

FAIR principles



Interoperable:



- ✓ International standards for metadata description (Dublin Core, DataCite...) must be fulfilled



Examples:

CORA RDR: <https://doi.org/10.34810/data674>

Zenodo: <https://doi.org/10.5281/zenodo.4571628>

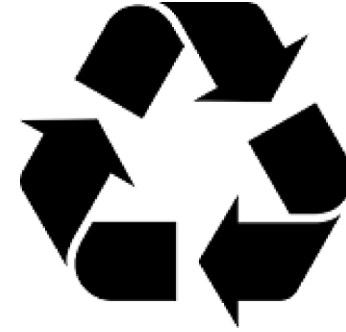
Images:

Dublin Core: <https://dublincore.org/>

DataCite: <https://datacite.org/>

ISO: <https://www.iso.org>

FAIR principles



Reusable:

- ✓ Data described in detail: origin, date of collection, environmental circumstances, observations...
- ✓ Subject area standards for description must be employed. If this is not possible, it is necessary the use of a recognized general standard.
- ✓ Every dataset with a Creative Commons license, or a Public Domain license

Good practices

- ✓ A README file with all the dataset details (contents of every file, units of measurement, how the data were obtained, etc.) UAB template: <https://ddd.uab.cat/record/226740>
- ✓ Recognizable file names (it is better to employ some kind of convention)
- ✓ Files in open formats (txt, csv, pdf, LaTeX, jpg, MP3...)
- ✓ Cite all the data employed in your research: third-party data and your own data as well

Good practices

- ✓ Each dataset must have **only one DOI**
- ✓ Indicate, in the research article, the DOI of the dataset

Data Availability Statement

The paper provides all the information needed to replicate the results. All experimental data related to the analysis performed can be downloaded from <https://doi.org/10.5281/zenodo.3820500>.

Image: <https://doi.org/10.1029/2020WR027228>

DATA AVAILABILITY

RNA-seq raw and processed data generated in this study can be found in GEO (GSE198022). All code used for analysis can be found at <https://doi.org/10.34810/data174>.

Image: <https://doi.org/10.1016/j.molp.2022.04.010>

Data availability

The data that support the findings of this study are available from the corresponding author, NSC, upon reasonable request.

Image: <https://doi.org/10.1093/jxb/eraa610>

Datasets vs additional material

- ✓ The additional material complements the article

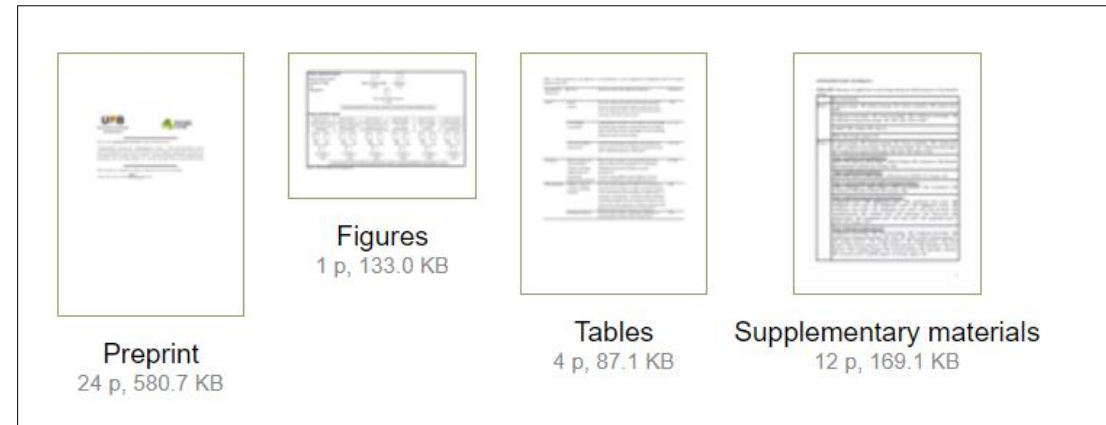


Image: <https://ddd.uab.cat/record/275859>

- ✓ Datasets are independent documents with their own DOI identifier

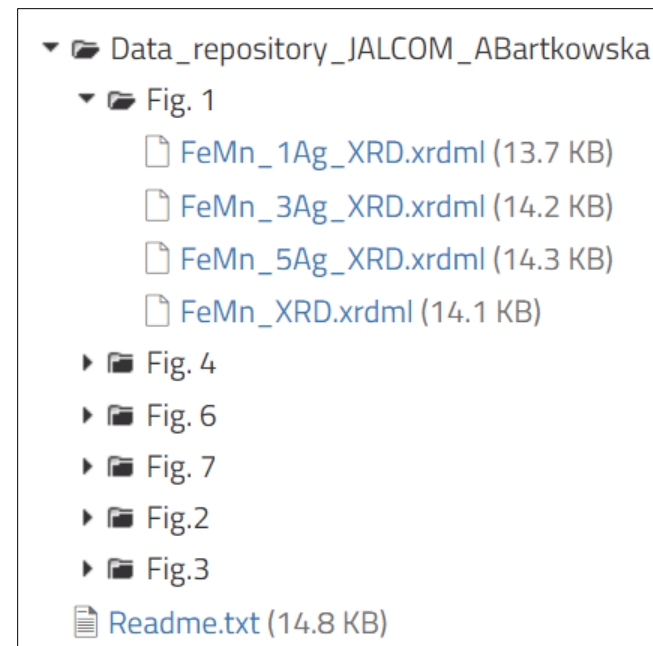


Image: <https://doi.org/10.34810/data841>

CORA.RDR



Datasets

- dataverse.csuc.cat/dataverse/ICTA

CORA.RDR is...

F	It assigns persistent identifiers (DOI/URI)	✓
	It uses International standards	✓
	Its content is searchable and retrievable	✓
A	Data and metadata accessible with open and standard communication protocols	✓
I	It uses international standards for metadata description	✓
R	Data described in detail	✓
	Every dataset with a Creative Commons license, or a Public Domain license	✓
	Subject area standards / recognized general standards for description are employed	✓

Data Management Plan (DMP)

A Data Management Plan (DMP) describes the data management life cycle for the data generated in a research process.

A DMP should include information on:

- the handling of research data during & after the end of the project
- what data will be collected, processed and/or generated
- which methodology & standards will be applied
- whether data will be shared/made open access
- how data will be curated & preserved (including after the end of the project)
- etc.

Data Management Plan – Advantages

It's a good **methodological resource** that:

- Enables you to manage the research data in an **organized** and **efficient** way (it prevents data loss)
- Helps to **systematize** the data collection
- Promotes data **sharing** and **access**
- Ensures **transparency** and **integrity** in your research

CORA.eiNa DMP

Online tool that allows you to prepare the DMP in a simple and collaborative way. It includes several templates to create the DMP according the requirements of the funding agencies.



dmp.csuc.cat

DMP and the UAB institutional repository



Data Management Plans

ddd.uab.cat/collection/plagesdad

Grant agreements and open research data

You must check the requirements about open research data established by the law or your funder.



UAB open access web



Universitat Autònoma de Barcelona → Research → Open access UAB → Scientific output in Open Access

Open Access

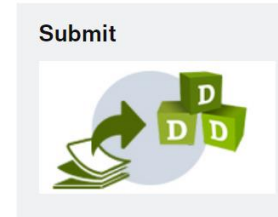
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