



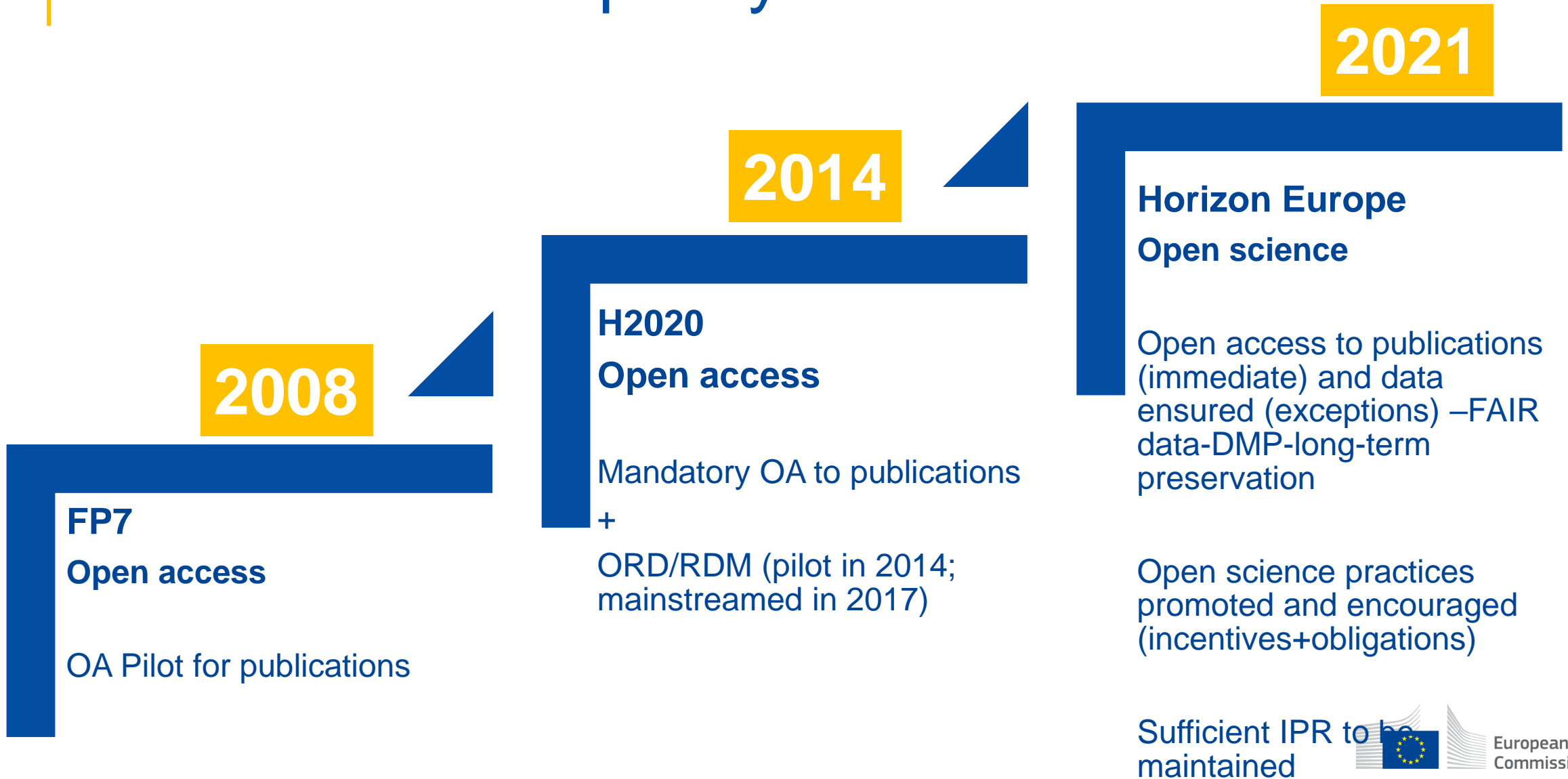
Open Research Europe

The European Commission Open Access Publishing Platform

Victoria Tsoukala, PhD
Policy Officer, European Commission
DG RTD, Unit 'Open Science'

OpenAIRE CY-GR
8th April 2021

Evolution of the policy across the FPs



Why Open Research Europe?

Support our open access policy and beneficiary capacity to adhere to it and also enables **publishing post-grant**

Comply to our policy by publishing in the platform

Leading by example in operationalising **open science principles** within scientific publishing and **enabling the European Research Area**

E.g. open access publishing, open peer-review, early sharing of research through pre-prints, broad range of indicators etc.

Contribute to **transparency** and **cost-effectiveness** and explore **sustainable** open access publishing business models

Transparent procurement procedure and article costs, institutional publishing, collaborative publishing with other funders in the future etc.

What is this Open Research Europe?

High-quality, reliable and efficient publishing venue for EU-funded research

High **scientific standards** (e.g. editorial policies+guidelines), and **swift** and **transparent** processes (e.g. open peer-review)

Expert **Scientific Advisory Board** across all fields of science

No cost to **authors/beneficiaries** i.e. non-APC platform (publication fees are directly paid by the Commission)

Fully **optional** – there is absolutely **no obligation** to publish there

Powered by [F1000 Research](#)

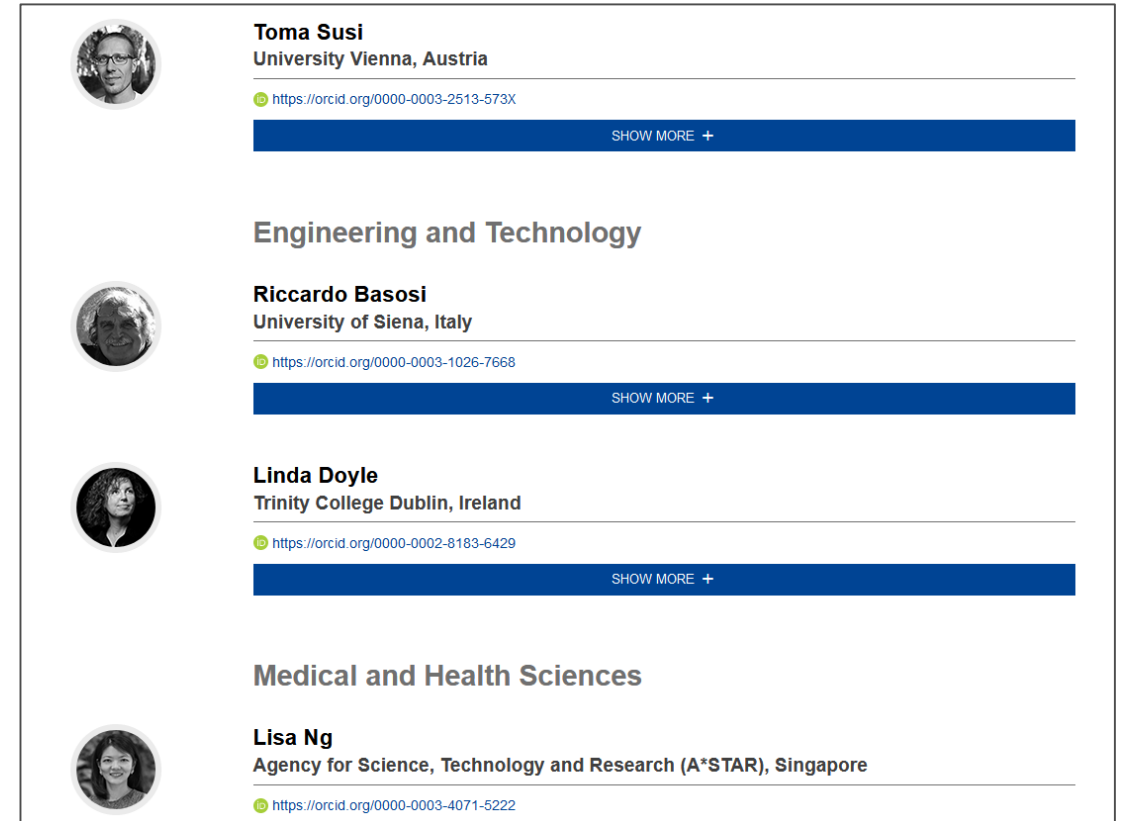
Scientific Advisory Board

24 members:

- They cover STM, Social Sciences and Humanities
- From Europe (& beyond)
- Researchers across career stages
- Minimum diversity

Their role:

- Constructive input and guidance on publishing policies
- Strategic direction and sustainability
- Advising on challenging issues that may arise



Toma Susi
University Vienna, Austria
<https://orcid.org/0000-0003-2513-573X>
SHOW MORE +

Engineering and Technology

Riccardo Basosi
University of Siena, Italy
<https://orcid.org/0000-0003-1026-7668>
SHOW MORE +

Linda Doyle
Trinity College Dublin, Ireland
<https://orcid.org/0000-0002-8183-6429>
SHOW MORE +

Medical and Health Sciences

Lisa Ng
Agency for Science, Technology and Research (A*STAR), Singapore
<https://orcid.org/0000-0003-4071-5222>

Who can publish?

At least **one author** must be involved in a running or finished Horizon 2020/Europe project from the European Commission and the article must be a **result of that project**. The article must be **original work**.

Currently unable to publish:

- JRC when outside of Horizon 2020/Europe
- **Euratom** (different Framework Programme with a different Treaty)
- **Cascading grants** (e.g. Cost beneficiaries)

The Commission is currently addressing the issue with its legal department

Main features of the publishing model

Original articles published as preprints in open access

- Stemming from Horizon 2020-funded research (and later, Horizon Europe)

Post publication open peer review

- Open reviewer identities, published reviews, post-publication comments

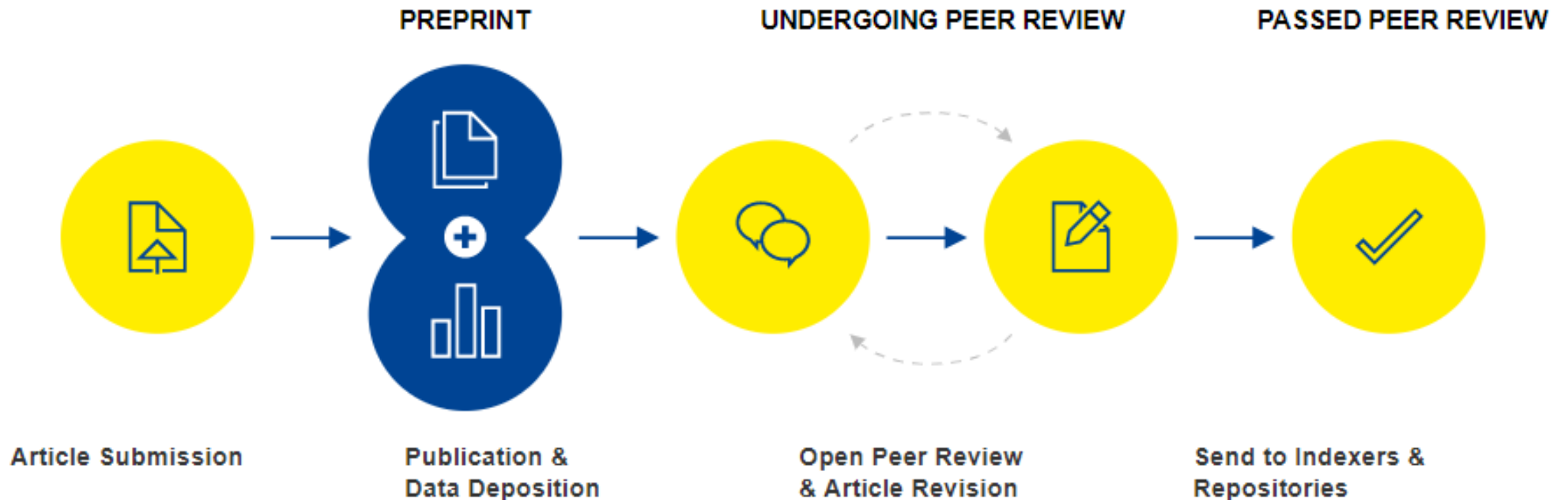
All content licensed for re-use

- Articles and reviews

Connected to the scholarly ecosystem

- PIDs, connection to repositories, open data and software, interoperable technologies, preservation of content, TDM, etc.

Open Research Europe publishing model



Prepublication checks

Upon Submission

- Assess author eligibility
- Check article scope
- Check for plagiarism



Pre-publication Checks

- Comprehensive checks on reporting, editorial & ethical guidelines
- Check for data availability
- Support authors in making data and software FAIR



Production

- Converted to text and data-mining formats (PDF, HTML, XML)
- Proofs and editing if necessary
- Quality checks on citations, references, image resolutions & multimedia
- Ensure persistent identifiers are assigned and resolve correctly

Data and software availability

Open Research Europe requires that, where possible, the source data underlying the results are made available at publication.

However, the sharing of research data must:

- Protect the confidentiality, security and privacy of individuals
- Respect the terms of consent by individuals who are involved in research
- Be consistent with Horizon 2020/Europe legal, ethical & regulatory frameworks
- Guard against unreasonable costs

<https://open-research-europe.ec.europa.eu/for-authors/data-guidelines>

Open Peer Review

Open Identities

- Reviewers must provide name and affiliation
- Must identify conflicting interests



Open Reports

- Reviewer reports will be published alongside the article
- These are citable and have viewing metrics



Open Review Status

- Reviewers assign a status

 **APPROVED**

The paper is scientifically sound in its current form and only minor, if any, improvements are suggested

 **APPROVED WITH RESERVATIONS**

Key revisions are required to address specific details and make the paper fully scientifically sound

 **NOT APPROVED**

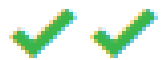
Fundamental flaws in the paper seriously undermine the findings and conclusions

Passing Peer Review

Authors can **respond to reviewers** and **revise their articles** based on the comments

Revisions are made through **new versions** of the article that are linked together (versions are limitless)

Authors need to achieve a certain **'threshold' of reviewer status** to be 'pass peer review' and be indexed:



2 'Approved' Status



1 'Approved' Status and 2 'Approved with reservations'

Supporting research across all disciplines

Editorial guidelines and policies specifically for:

- Science, Technology & Medicine (STM)
- Social Sciences
- Humanities

Data guidelines and policies in line with European Commission policies

ORE supports many different **article types** to support disciplinary areas

Content is **searchable** by subject areas and by Horizon 2020/Europe programme areas.

STM	SS	Humanities
Research Article	Research Article	Research Article
Brief Reports	Essay	Essay
Data Notes	Review	Review
Method Articles	Case Studies	
Software Tool Articles	Brief Reports	
Study Protocols	Data Notes	
Registered Reports	Method Articles	
Reviews	Software Tool Articles	
Systematic Reviews	Study Protocols	
Clinical Practice Articles	Registered Reports	
Case Reports	Systematic Reviews	
Case Studies		

Gateway example

The screenshot shows the top navigation bar of the Open Research Europe Gateway. On the left is the European Commission logo. In the center is a search bar with the text 'Search' and a 'Search' button. Below the search bar is a blue banner with the text 'Open Research Europe / Gateways' and 'My Account' and 'Sign In' links. The main content area features a large image of laboratory glassware with the text 'Excellent Science' and a 'TRACK' button. At the bottom of the banner are links for 'BROWSE', 'ABOUT THIS GATEWAY', and a 'SUBMIT TO THIS GATEWAY' button.


Alerts for new preprints and peer review reports

[Home](#) » [Collections](#) » Excellent Science

Content for this gateway is coming soon.

Search this Gateway

Gateway Areas

-  European Research Council (ERC)
-  Marie-Sklodowska-Curie Actions (MSCA)
-  Future and Emerging Technologies (FET)
-  Research Infrastructures

Filters for programmes

Article example/metrics example

1 Views | 0 Downloads

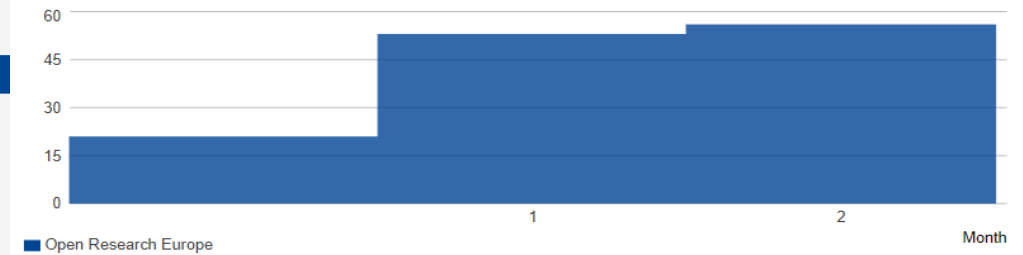
Cite | Download | Export | Share

Reach

Article Views & Downloads

	HTML Page Views	PDF Downloads	XML Downloads	TOTALS
Open Research Europe	56	2	0	58

Cumulative Views



Cited

EUROPE PMC 95	DIMENSIONS 116	VERSION 1 (116) 116	CROSSREF 36	GOOGLE SCHOLAR GOOGLE SCHOLAR
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Data provided by Altmetric

Home > Articles > The abTEM code: transmission electron microscopy from first principles

SOFTWARE TOOLS

Registered Report

The abTEM code: transmission electron microscopy from first principles [version 1; peer review: awaiting peer review]

Jacob Madsen, Toma Susi, Fran Levy

Article

Authors

Metrics

Abstract

Simulation of transmission electron microscopy (TEM) images or diffraction patterns is often required to interpret experimental data. Since nuclear cores dominate electron scattering, the scattering potential is typically described using an independent atom model, which completely neglects valence bonding and its effect on the transmitting electrons. As instrumentation has advanced, new measurements have revealed subtle details of the scattering potential that were previously not accessible to experiment.

We have created an open-source simulation code designed to meet these demands by integrating the ability to calculate the potential via density functional theory (DFT) with a flexible modular software design. abTEM can simulate most standard imaging modes and incorporates the latest algorithmic developments. The development of new techniques requires a program that is accessible to domain experts without extensive programming experience. abTEM is written purely in Python and designed for easy modification and extension.

The effective use of modern open-source libraries makes our performance highly competitive with existing optimized codes on both CPUs and GPUs. abTEM is designed to work in an interactive Python notebook, allowing us to leverage an extensive ecosystem of libraries, such as the Atomic Simulation Environment and the DFT code GPAW. This creates a seamless and reproducible workflow from defining an atomic structure, calculating molecular dynamics (MD) and electrostatic potentials, to the analysis of results, all in a single, easy-to-read document.

This article provides ongoing documentation of abTEM development. In this first version, we show use cases for hexagonal boron nitride, where valence bonding can be detected, a 4D-STEM simulation of molybdenum disulfide includingptychographic phase reconstruction, a comparison of MD and frozen phonon modeling for convergent-beam electron diffraction of a 2.6-million-atom silicon system, and a

Open Peer Review

Reviewer Status

AWAITING PEER REVIEW

Comments on this article

All Comments (0)

Sign in to comment

The future of ORE

- Beyond the four years of the current framework contract
- Establish a vision: current thoughts to expand within the European Commission and beyond i.e. **other framework programmes** (e.g. Asylum, Migration and Integration Fund, European Social Fund etc.) and **other national funders**
- Exploring possibilities in **legal and organizational terms**
- **Sustainability** and long-term service is already being studied

Resources for stakeholders

There will be a dedicated resource hub for all ORE stakeholders to use (not in place yet but soon)

Open Research Promotion Hub

All the materials you need to successfully promote Open Research Europe.

Welcome, we are delighted to have you onboard!

We have put together this content hub so that you have everything you need start promoting Open Research Europe.

[DOWNLOAD ALL ASSETS HERE](#)

Alternatively you can download each of the following assets by browsing the page:

- Personalized URLs
- Social media guide & social media banners
- Email guide & email signature
- Leaflet & Infographic
- Presentation slides



ORE Twitter Account



[@OpenResearch_EU](https://twitter.com/OpenResearch_EU) officially launched on 2 February 2021

Thank you



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