

# How much is the fish?

openCost for cost transparency and sustainable and FAIR scientific publishing

Alexander Wagner

Mainz, 17.09.2024

# Overview



- > openCost
- > Background
- > PIDs, Format and Interface
- > Open Data
- > Your Input

# What and Who is openCost?

## openCost

automated, standardised delivery and open provision of publication costs and publishing agreements

- > Funded by DFG (457354095) 12/2021 — 11/2024
- > Project partners
  - Bielefeld University Library (Repository, [open@PC](#))
  - Regensburg University Library (Repository, [EZB](#))
  - Deutsches Elektronen-Synchrotron, DESY (Repository, [JOIN<sup>2</sup>](#))
- > <https://opencost.de/en>



# Who is JOIN<sup>2</sup>?



Deutsches Elektronen-Synchrotron, DESY

≈ 2300 + 3000

Deutsches Krebs



Forsch



Germ



GSI H

Joint Institute for

Maier-Leibniz-Ze



RWTI

Museum Zitadell

## JOIN<sup>2</sup> is quite big...

7+1 very different institutions,

staff > **23.000**, > 6000 “visiting scientists”

(≥ 609.000 records, ≥ 98.000 Open Access, ≥ 147.000 authorities)



# Background

## Open Access & Open Science

### Transforming Scientific Publishing to Open Access



# Background

## Open Access & Open Science

### Transforming Scientific Publishing to Open Access

- > FP7 → Horizon2020 → HorizonEurope
- > DFG Funding → [Open-Access-Publikationskosten](#)
- > Helmholtz Open Science Policy ([100% Open Access...](#))
- > [“Informationsbudget”](#) (German Science and Humanities Council (2022) [[10.57674/fyrc-vb6](#)])

Currently focussing on Gold-Open Access

might become Diamond...

# Goal: Cost Transparency

➤ **Total Cost of Publishing** (Open, Closed, Additional, Voluntary...)

➤ **Broad view on Publishing**

(Papers, Data, Software, ...⇒ read: research output)

➤ **Automatic Data Exchange**

- within an institution
- between institutions
- inter-national

➤ **Simplify Workflows** (e. g. new services in EZB)



# Goal: Cost Transparency

- Total Cost of Publishing (Open, Closed, Additional, Voluntary...)
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  - between institutions
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- Simplify Workflows (e. g. new services in EZB)

## ➤ Metadata format for Cost-bearing Entities

(standardized, international, embeddable & stand-alone)

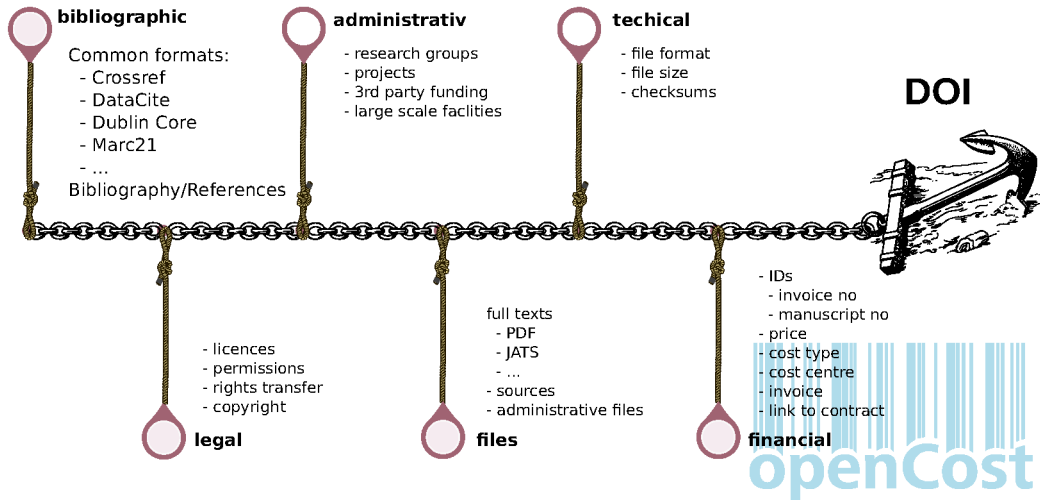
## ➤ Easy, open data provisioning

(harvestable by anyone)

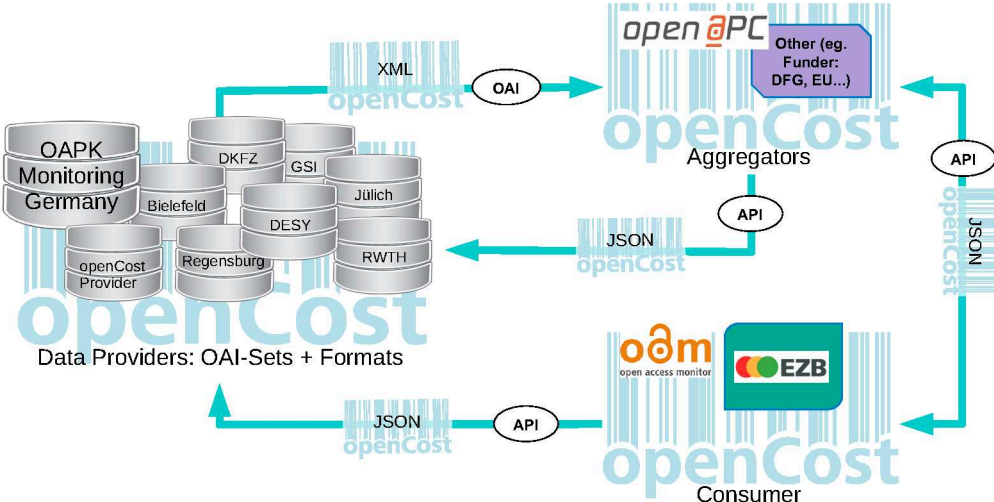


# It's the PID, stupid!

## Example: Article in a Repository



# Open Data Flow



# Open Data with openCost

PUBDB

DESY Publications Database

Home > Publications database > Quantification of gas-accessible microporosity in metal-organic framework glasses

Information Files Holdings

Journal Article

PUBDB-2022-07769

## Quantification of gas-accessible microporosity in metal-organic framework glasses

Frentzel-Beyme, L. ; Kolodzeiski, P. ; Weiss, J.-B. ; Schneemann, A. ; Henke, S. (Corresponding author)

2022

Nature Publishing Group UK [London]

Nature Communications 13(1), 7750 (2022) [10.1038/s41467-022-35372-5]   

This record in other databases:    14  39

Please use a persistent id in citations: doi:10.1038/s41467-022-35372-5 doi:10.3204/PUBDB-2022-07769

**Abstract:** Metal-organic framework (MOF) glasses are a new class of glass materials with immense potential for applications ranging from gas separation to optics and solid electrolytes. Due to the inherent difficulty to determine the atomic structure of amorphous glasses, the intrinsic structural porosity of MOF glasses is only poorly understood. Here, we investigate the porosity features (pore size and pore limiting diameter) of a

Contributing Institute(s):

1. DOOR-User (DOOR ; HAS-User)

Research Program(s):

1. 6G3 - PETRA III (DESY) (POF4-6G3) (POF4-6G3)

Publication costs of 5579.37€ funded by Technische Universität Dortmund (Source: OpenAPC)

Experiment(s):

1. PETRA Beamline P02.1 (PETRA III)

> OLAP-Server

(openCost extension for  
open@PC)

> DOI-based

> JavaScript

(35 almost generic lines)

# Spread the Word...

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**Details**  
 Item type: Article  
 Höhe/Gebühr (via OpenAPC): 1461,24  
 Institution der Zahlung: TU München  
 Journal or Publication Title: BMC Cancer

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 1. Helmholtz-Institut Erdeningen-Nürnberg Erneuerbare Energien (HEK-11)  
 Research Program(s):  
 1. 1219 - Cost Design and Development (POF4-121) (POF4-129)  
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 Universität Bielefeld

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 Wübbenau, S. / Schwan, K. / Esch, G. / Gasser, G. / Schach, F. (2023)  
 Frontiers in Psychology 14, 1-12  
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Author(s): [Kühnemann, Thomas](#) [Wübbenau, S.](#) [Schwan, K.](#) [Esch, G.](#) [Gasser, G.](#) [Schach, F.](#)  
 Einrichtung: [Lehrstuhl für Psychologie und Sachverständigenwesen / Abteilung Sportwissenschaft / Arbeitsbereich für Arbeitspsychologie und Bewegung / Biomechanik / Center of Excellence - Cognitive Interaction Technology, CITEC](#)  
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 Impulse für Forschung, Industrie

**Mapping structure heterogeneity in perovskite film**  
 Li, N. / Thomas, S. / Kropf, V. / Verma, S. / ...

Nature Communications 13(1), 4701 (2022) | doi:10.1038/s41467-022-28888-8  
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 1. Heinz Maier-Leibner Zentrum (MLZ)  
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Publishing process:	28 Weeks

## Cost Information from OpenAPC

Institutions report the publication costs (APC) paid for this journal to [OpenAPC](#) (last updated 03-09-2024). Note: The average costs may change as a result of subsequent reporting.

Year	2021	2022	2023	2024
Average APC per article worldwide	4,156 EUR (505 record(s))	5,177 EUR (601 record(s))	5,600 EUR (262 record(s))	5,660 EUR (15 record(s))
Average APC per article in your institution	4,123 EUR (4 record(s))	4,756 EUR (3 record(s))	4,853 EUR (4 record(s))	- (no records)

## ▼ Journal details

Title:	Nature Communications
Publisher / Provider:	Nature Publishing Group
Language(s):	English
Fulltext online since:	Vol. 1, Iss. 1 (2010)
Homepage(s):	<a href="https://www.nature.com/ncomms/">https://www.nature.com/ncomms/</a>
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# New Cost-bearing Entities

## Direct association

(like articles)

- > Books & Proceedings
- > Contributions to Books & Proceedings
- > Data
- > Software
- > ...

## Indirect association

(like contracts)

- > Data
- > Diamond Open Access
- > Software
- > ...

**Your input!**

Cost types, documentation, glossaries, missing pieces, use cases, vocabularies, ...

# Thank you!



See you in Regensburg!

## ***The Road to Publication Cost Transparency - The Next Stage*** **October 7<sup>th</sup> – 9<sup>th</sup>, Regensburg (Germany)**

### Contact

Deutsches Elektronen-  
Synchrotron DESY

[www.desy.de](http://www.desy.de)

Alexander Wagner  
0000-0001-9846-5516  
Central Library  
[alexander.wagner@desy.de](mailto:alexander.wagner@desy.de)  
+49-40-8998-1758  
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