

How much is the fish?

openCost for cost transparency and sustainable and FAIR scientific publishing

Alexander Wagner
Mainz, 17.09.2024

HELMHOLTZ



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, JOIN²)
- > <https://opencost.de/en>



UNIVERSITÄT
BIELEFELD



Universität Regensburg



Who is JOIN²?



Deutsches Elektronen-Synchrotron, DESY

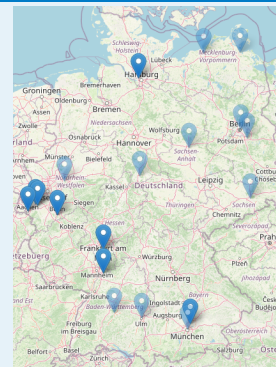
≈ 2300 + 3000

JOIN² is quite big...

7+1 very different institutions,
staff > 23.000, > 6000 “visiting
scientists”

(≥ 609.000 records, ≥ 98.000 OpenAccess, ≥ 147.000

authorities)



Joint I

Maier-



RWTH Aachen

≈ 9500

Museum Zitadelle Jülich

≈ 3 + n



Background

OpenAccess & OpenScience

Transforming Scientific Publishing to Open Access

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

Currently focussing on Gold-OpenAccess

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)

> Metadataformat for Cost-bearing Entities

(standardized, international, embeddable & stand-alone)

> Easy, open data provisioning

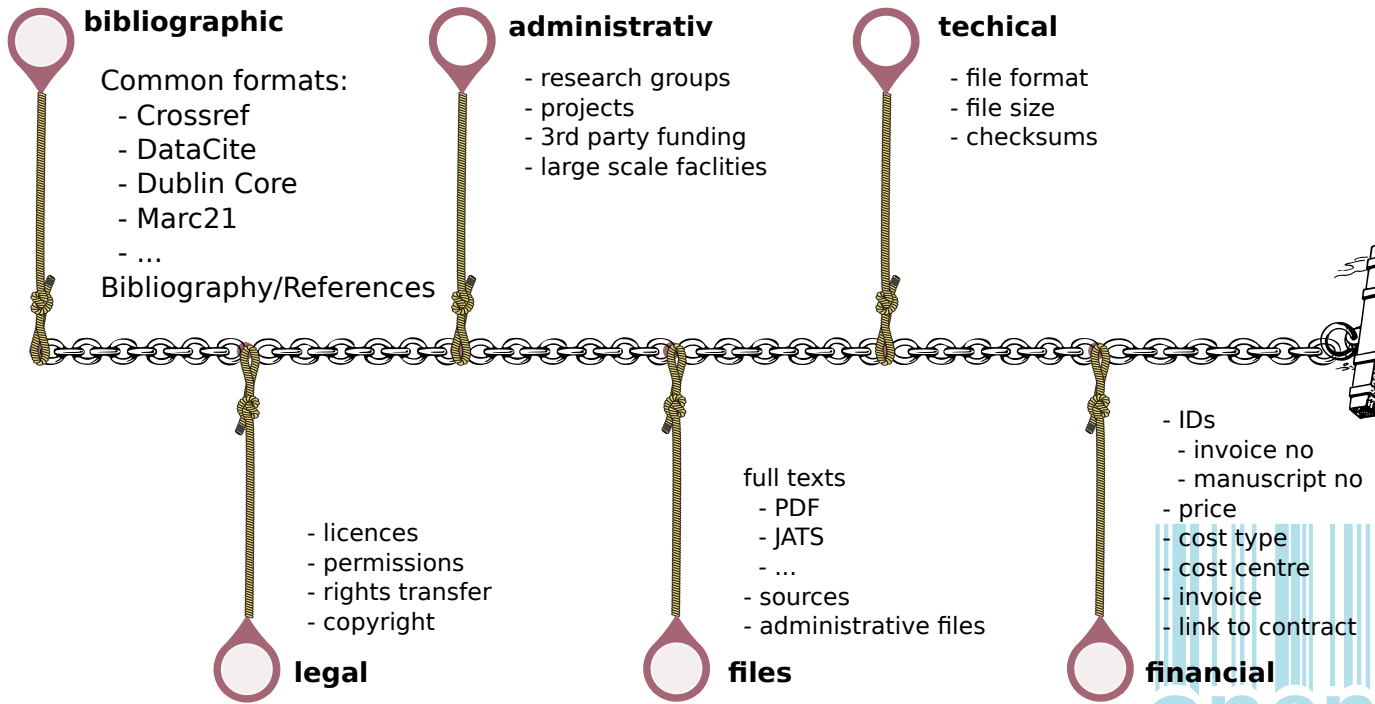
(harvestable by anyone)

openCost

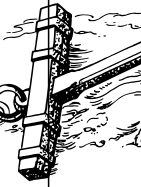


Its the PID, stupid!

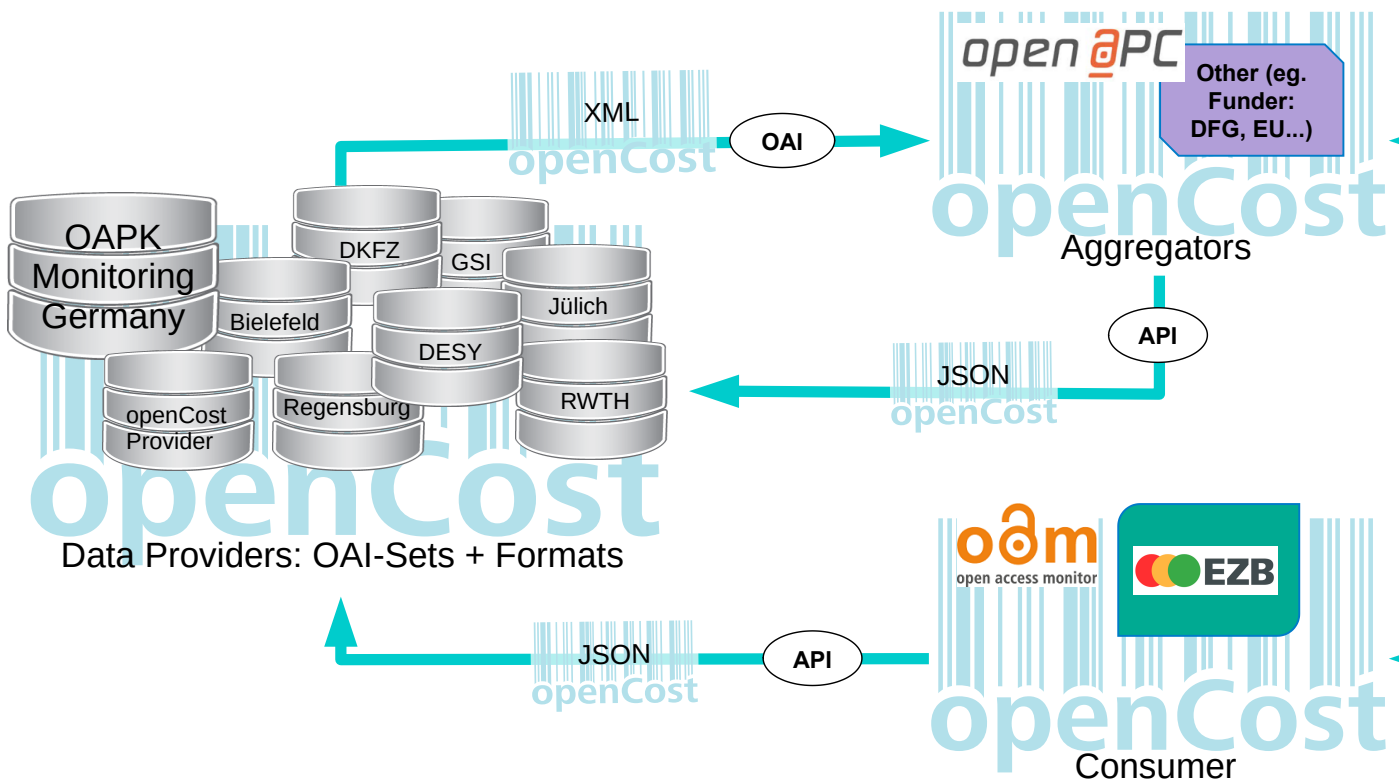
Example: Article in a Repository



DO



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: PubMed.gov WEB OF SCIENCE™ Altmetric 14 Citations 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 distribution and pore volume) 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)

Open Access Server
(openCost extension for open@PC)
> DOI-based JavaScript
(35 almost generic lines)



Spread the Word...

UR
Universität Regensburg

Tumour stage distribution and survival of malignant melanoma in Germany 2002–2011

URN to cite this document: 10.5283/EPUB.42721

DOI to cite this document: 10.5283/EPUB.42721

Schaffer, Olaf ; Schild, Stefan ; Arndt, Gerlind ; Amholdt, Hans ; Baake, Dieter ; Bergau, Paul C. ; Becker, Nikolaus ; Beckmann, Matthias W. ; Bocksch, Yves ; Böhm, Deanna ; Bocksch, Nikolaus ; ...

Details

Item type: Article

Höhe Gebühr (aus OpenAPC): 1661,24

Institution der Zahlung: TU Muenchen

Journal or Publication: BMC Cancer

GSI REPOSITORY

SEARCH SUBMIT PERSONALIZE HELP

Journal Article

Centers G. P. ; Blanchard, J. W. ; Connell, J. ; Espner, Wicke

Nature Communications 13(1), 7321 (2022) [10.1038/s41467-022-35372-5]

This record in other databases: PubMed.gov WEB OF SCIENCE™ Altmetric 14 Citations 39

Contributing Institute(s):

- 1. HEM / MAM (MAM)

Research Program(s):

- 1. 612 - Cosmic Matter in the Laboratory (POF4-612) (POF4-612)
- 2. DESY - Experimental Searches for Dark Matter and Transient Effects from the Dark Sector (096450) (096450)

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

1. External experiment at external facility/in cooperation at GSI (POC3 - other)

PubPub

SEARCH | SUBMIT | PERSONALIZE

Download DOI URN

Journal Article

Calcium-permeable channelrhodopsins

Fernandez Lahore, R. G. ; Pampaloni, N. P. ; Peter, E. ; Helm, M. M. ; Tj, Piestes, A. J. R. ; Ro

Nature Publishing

Nature Communications 13(1), 7844 (2022) [10.1038/s41467-022-35372-5]

This record in other databases: PubMed.gov WEB OF SCIENCE™ Altmetric 14 Citations 39

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

Contributing Institute(s):

- 1. Network Dysfunction (AG Scheinzig)

Research Program(s):

- 1. 351 - Brain Function (POF4-351) (POF4-351)

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

UNIVERSITÄT BIELEFELD
Universitätsbibliothek

PUB - Publikationen an der Universität Bielefeld

Expertise-dependent perceptual performance in chess tasks with varying complexity

Kühnemann, T. ; Weitzel, K. ; Essig, K. ; Koster, D. ; Schuch, T. (2022)
Frontiers in Psychology 13: 745

Zentrum für Kognitionswissenschaften (Virtuelle Kognitionswissenschaften)

Author: Tn
Kühnemann, Thomas ; Weitzel, Konstantin ; Essig, Karoline ; Koster, Dirk ; Schuch, Thomas

Einrichtung: Fakultät für Psychologie und Sportwissenschaft ; Abteilung Sportwissenschaft ; Arbeitsbereich II: Neurokognition und Bewegung ; Biomechanik

Center of Excellence - Cognitive Interaction Technology (CIC)

Abstract / Beschreibung: Perceptual performance, underlying perceptual processes, and judging chess positions especially in subclinical processing is related to expertise level and dependent on chunking processes. It becomes obvious that chess requires a multidimensional phenomenon related predominantly to expertise. A better understanding of these complex configurations can

IMPULSE MLZ Heinz Maier-Leibner
Neutronen für Forschung, Industrie

Search Submit Personalize Help

Journal Article

Mapping structure heterogeneity perovskite film

Li, N. ; Phairo, S. ; Klotz, V. ; Yama, S. ; So

Nature Communications 13(1), 4701 (2022) [10.1038/s41467-022-35372-5]

Contributing Institute(s):

- 1. Heinz Maier-Leibner Zentrum (MLZ)

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

1. No specific instrument

Appears in the scientific report 2022

GSI REPOSITORY

SEARCH SUBMIT PERSONALIZE HELP

Journal Article

Centers G. P. ; Blanchard, J. W. ; Connell, J. ; Espner, Wicke

Nature Communications 13(1), 7321 (2022) [10.1038/s41467-022-35372-5]

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

1. External experiment at external facility/in cooperation at GSI (POC3 - other)

Most valuable...
...if data is current!
OpenAIRE manages weekly updates for E
via
OAI-PMH



Inform Users

EZB Electronic Journals Library
DESY-Libraries Hamburg/Zeuthen

Journal Search: [Advanced Search](#)

Journal Search results: **1 hits**
Refine search: Nature Communications

Open Access: DOAJ

Online Availability: Fulltext: freely available

To the fulltexts: Vol. 1, Iss. 1 (2010) - ...

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Publisher / Provider: Nature Publishing Group

Sherpa Romeo: Find the publisher's Open Access policy in Sherpa Romeo

Funding options for publication costs by your own institution

Person to Contact: Publishing at DESY, L.publishing@desy.de

Funding: Journal articles in open access journals are funded via open access publication budgets and managed centrally by the library if the corresponding author is affiliated with the Deutsches Elektronen-Synchrotron DESY. Any additional costs incurred, such as page/cover/colour/publication charges, as well as so-called hybrid publication costs (for open access availability in a journal that is not freely accessible) are passed on to the group's own cost centres. Listing in the DOAJ is a positive quality feature and helps to clearly identify the open access status of a journal. Articles in this journal are eligible for funding under the DFG programme "Open Access Publication Costs" and can be subsidised with up to €700.

Information about Publishing from DOAJ

The **Directory of Open Access Journals (DOAJ)** is a directory for open-access journals with quality assurance procedures. Journals listed in DOAJ are automatically identified in EZB.

Instructions for authors: [Link to the publisher](#)

Accepted languages: English

APCs: Yes

APC amount: 5090 GBP; 6790 USD; 5690 EUR (last updated 01-30-2024, [further information provided by the publisher](#))

Journal license: CC BY

Review process: Peer review, [further information provided by the publisher](#)

Plagiarism screening policy: [Publisher's plagiarism screening policy](#)

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): <https://www.nature.com/ncomms/>

Latest articles: [Newsfeed[®]](#)



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 7th – 9th, Regensburg (Germany)

Contact

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Synchrotron DESY

www.desy.de

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