

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, [JOIN²](#))
- > <https://opencost.de/en>



Who is JOIN²?



Deutsches Elektronen-Synchrotron, DESY

≈ 2300 + 3000

Deutsches Krebs



Forsch



Germ



GS I

Joint Institute for

Maier-Leibniz-Ze



RWTI

Museum Zitadell

JOIN² 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

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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)



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- Total Cost of Publishing (Open, Closed, Additional, Voluntary...)
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➤ Metadata format for Cost-bearing Entities

(standardized, international, embeddable & stand-alone)

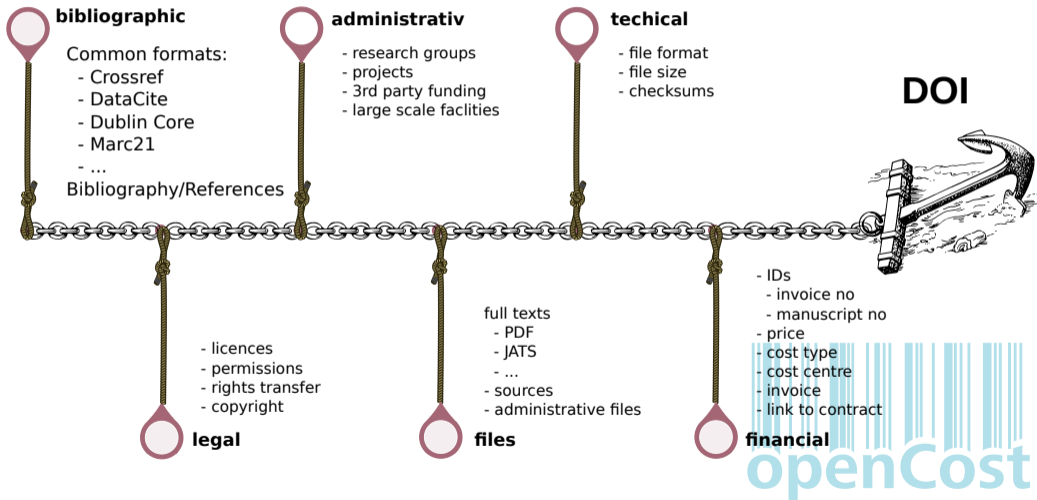
➤ Easy, open data provisioning

(harvestable by anyone)

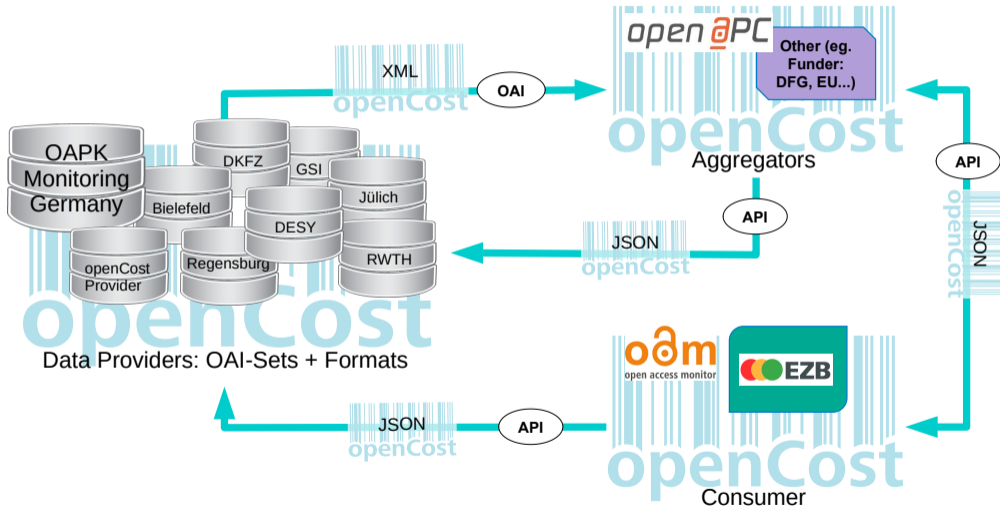


It's the PID, stupid!

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...

IR Universität Regensburg

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Item type	Article
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Institution der Zahlung:	TU Muenchen
Journal or Publication Title:	BMC Cancer

GSI REPOSITORY

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Journal Article

Stoc

Centres, G.P.; Meuschel, J.W.; Gabel, J.; Exner, W.

Nature Communications 13(1), 4761 (2022) [31.10.2024]

This record is in other databases: [PubPub](#) [arXiv](#) [Crossref](#) [Scopus](#) [ORCID](#) [Publons](#) [Publindex](#)

Contributing Institution(s):

1. Heinz Maier Leibniz Zentrum (MLZ)

Publication costs of 6578,37€ funded by Technische Universität München (OpenAPC)

1. No specific instrument

Appears in the scientific report 2022



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Home > Calcium permeable channelrhodopsins for the photocontrol of various signaling

Information Files

Journal Article

Calcium-permeable channelrhodopsins

Fernandez-Lahera, R. G.; Pampaloni, N. P.; Petri, E.; Hies, M. M.; Toth, M.; A. J. R.; Pe

Nature Reviews 19(1), 194 (2022) DOI: 10.1038/s41573-021-0115-4

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Contributing Institution(s):

1. Network Dynamics (AG Scheetz)

Research Program(s):

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

Publication costs of 6279,27€ funded by Technische Universität München (OpenAPC)

1. External investment of external facilities experiment at GSI (POF3-084)

Traps and transport resistanc

Wagner, C.; Gohle, C.; Scheller, M.; Du, X.; He, Z.; D. H. T.; Wabik, C. A.; W

Nature Communications 13(1), 3194 (2022) [31.10.2024]

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Contributing Institution(s):

1. Helmholtz-Institut Erlangen-Neuburg Erlangen-Neuburg (E.ON-11)

Research Program(s):

1. 1213 - Cell Design and Development (POF4-121) (POF4-121)

Publication costs of 6279,27€ funded by Technische Universität München (OpenAPC)

1. External investment of external facilities experiment at GSI (POF3-084)

UNIVERSITÄT BIELEFELD

PUB - Publikationen an der Universität Bielefeld

Expertise-dependent perceptual performance in chess tasks with varying complexity

Kühnemann, T.; Nitzsche, K.; Busy, R.; Koster, D.; Schach, T. (2022)

Frontiers in Psychology 13 (1), 1-15.

DeutscherSprachfonds | Verfügbar in: Englisch

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DOI: [https://doi.org/10.3389/fpsyg.2022.911767](#)

URN: [urn:nbn:de:hbz:5:1-65884-p0032-9](#)

Details Details URN:nbn:de:hbz:5:1-65884-p0032-9 Zitationen Referenzen

Author(s): [Kühnemann, Thomas](#), [Nitzsche, Konstantin](#), [Busy, Ralf](#), [Koster, David](#), [Schach, Thomas](#)

Erkennung: [Fachbereich für Psychologie und Sportwissenschaft](#); [Abteilung Sportwissenschaft](#); [Abteilung Sportwissenschaft](#); [Abteilung Sportwissenschaft](#); [Abteilung Sportwissenschaft](#); [Abteilung Sportwissenschaft](#)

Center of Excellence - Cognitive Interaction Technology CITEC

Abstract / Bemerkung: Perceptual performance, including opponent strategies and judging chess positions, especially in a multidimensional processing is related to expertise level and dependent on chunking processes. It becomes obvious that chess expertise is a multidimensional phenomenon related predominantly to variations in the number of chunks used in the representation of the board.

Export: [Crossref](#); [PubMed](#); [PubMed Central](#); [Open Data P33](#)

Förderung: [Publindex](#); [Publons](#); [Publindex](#); [Publons](#); [Publindex](#); [Publons](#)

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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
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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):	https://www.nature.com/hcomms/
Latest articles:	 Newsfeed [®]

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- > 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

Deutsches Elektronen-
Synchrotron DESY

www.desy.de

Alexander Wagner
0000-0001-9846-5516
Central Library
alexander.wagner@desy.de
+49-40-8998-1758
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