

ePIC: lessons learned and future perspectives

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Computing and Data Centre**

Roadmap



- EPIC
- Lessons learned
- Vision

- To date: ~31900 items, **4th** version
 - First version ~14 years ago in Perl, in-house coding; followed by FEDORA as backend
- Pragmatic move to EPrints
 - No complex frameworks
 - No more self-programming!
 - Support/consultancy wished!



Degree of Customization : still high

- Frontend
- ISI Journal list with autocompletion function
- AWI-specific schema
 - Complex author field (incl. userID for author disambiguation)
 - Additional fields: PACES II work packages, research platforms and campaigns, submit data agreement, etc
 - Customized metadata schema for OAI harvesting
- REST interface for linking to PANGAEA objects
- Geo-referencing

Roadmap



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Repositories became...



boring after ResearchGate appeared !

User
friendliness

„Sexy“ statistics:
top co-authors,
citations,
downloads, etc

„Sexy“ networks:
follow, followers,
share „protected“
PDFs, share interest,
share projects,
social, network, etc

Macario, A. and Pfeiffenberger, H. (2000)

An homogeneous Directory of People, Publications,
and other Resources as a means for IT-based
Knowledge Management in Science

hdl:[10013/epic.10560](https://nbn-resolving.org/urn:nbn:de:hbz:5:1-10013-epic.10560)

Relationships

Data

Expeditions

**Grants,
Projects, ...**

The screenshot shows a ResearchGate profile for Olaf Eisen, a Prof. Dr. at the Alfred Wegener Institute for Polar and Marine Research. The profile includes a 'Follow' button, a 'RG SCORE' of 22.46, and a 'Follow' button for the Alfred Wegener Institute Helmholtz Center. The profile statistics show 53 publications, 1k views, 227 downloads, 147 citations, and 44.83 impact points. The featured publications section lists three articles: 'Investigating englacial reflections with vibro- and explosive-seismic surveys at Halvfaryggen ice dome, Antarctica', 'Determining the age distribution of Colle Gnifetti, Monte Rosa, Swiss Alps, by combining ice cores, ground-penetrating radar and a simple flow model', and 'Permittivity of ice at radio frequencies: Part II. Artificial and natural polycrystalline ice'. The top co-authors section lists Frank Wilhelms, Uwe Nixdorf, Hans Oerter, Juerg Schweizer, and Martin Schneebeli. The 19 following and 40 followers sections are also visible.

Repositories are too rigid...



1) users want to create and curate their own collections

2) users want to archive „big data“ themselves

The screenshot shows the 'Community Collections' section of the Zenodo website. It features a grid of 12 collection cards, each with a title, a brief description, and a 'View' button. The collections include:

- American Chemical Science Journal**: Aims to publish high quality papers in all aspects of chemical science.
- American Journal of Experimental Agriculture**: A multidisciplinary journal in the field of agriculture and biology.
- Annual Review & Research in Biology**: Publishes critical reviews, research articles, mini-reviews and short communications.
- Aptamers**: A UK Government Agency website specializing in finding solutions for food, safety, chemical safety, bee health and environmental issues.
- Arvados**: An open-source platform for storing, organizing, analyzing, and sharing biomedical big-data.
- Asian Journal of Agricultural Extension, Economics & Sociology**: Publishes high quality papers in all areas of agricultural extension, economics & sociology research.
- Astro Sides**: A community to share slides that briefly, beautifully, and effectively visualize topics commonly covered in talk introductions and courses.
- Biosystematics Literature**: A community to share publications related to bio-systematics.
- BlogForever project**: An FP7 funded project for digital preservation, management and dissemination.
- Bollettino telematico di filosofia politica**: An online journal of political philosophy.

The screenshot shows the Zenodo search results page for the query 'macario'. The page displays two search results:

- Swath Bathymetry Piman fracture zone** by Macario, Ana. Uploaded on 30 October 2013. Includes a 'View' button.
- Plankton'net: Using Fedora to aggregate and disseminate biodiversity content** by Macario, Ana. Uploaded on 29 October 2013. Includes a 'View' button.

The footer of the page contains navigation links (About, Contact, Policies), a list of features (FAQ, API), and logos for OpenAIRE, Zenodo, and Invenio. It also includes the text 'Powered by INVENIO' and 'Terms of use | Privacy policy | Support/Feedback'.

Eisen, Olaf [Return to Search Page](#)

[Get A Badge](#) [ResearcherID](#) [Labs](#)

ResearcherID: K-3846-2012

URL: <http://www.researcherid.com/rid/K-3846-2012>

ORCID: <http://orcid.org/0000-0002-6380-962X>

M...
...gener-Institut Helmholtz-
...m für Polar- und
...eresforschung
...ole: Researcher (Academic)

My Publications

My Publications (32)

[View Publications](#) ▶

[Citation Metrics](#)

ResearcherID labs

[Create A Badge](#)

[Collaboration Network](#)

[Citing Articles Network](#)

My Publications: View

This list contains p

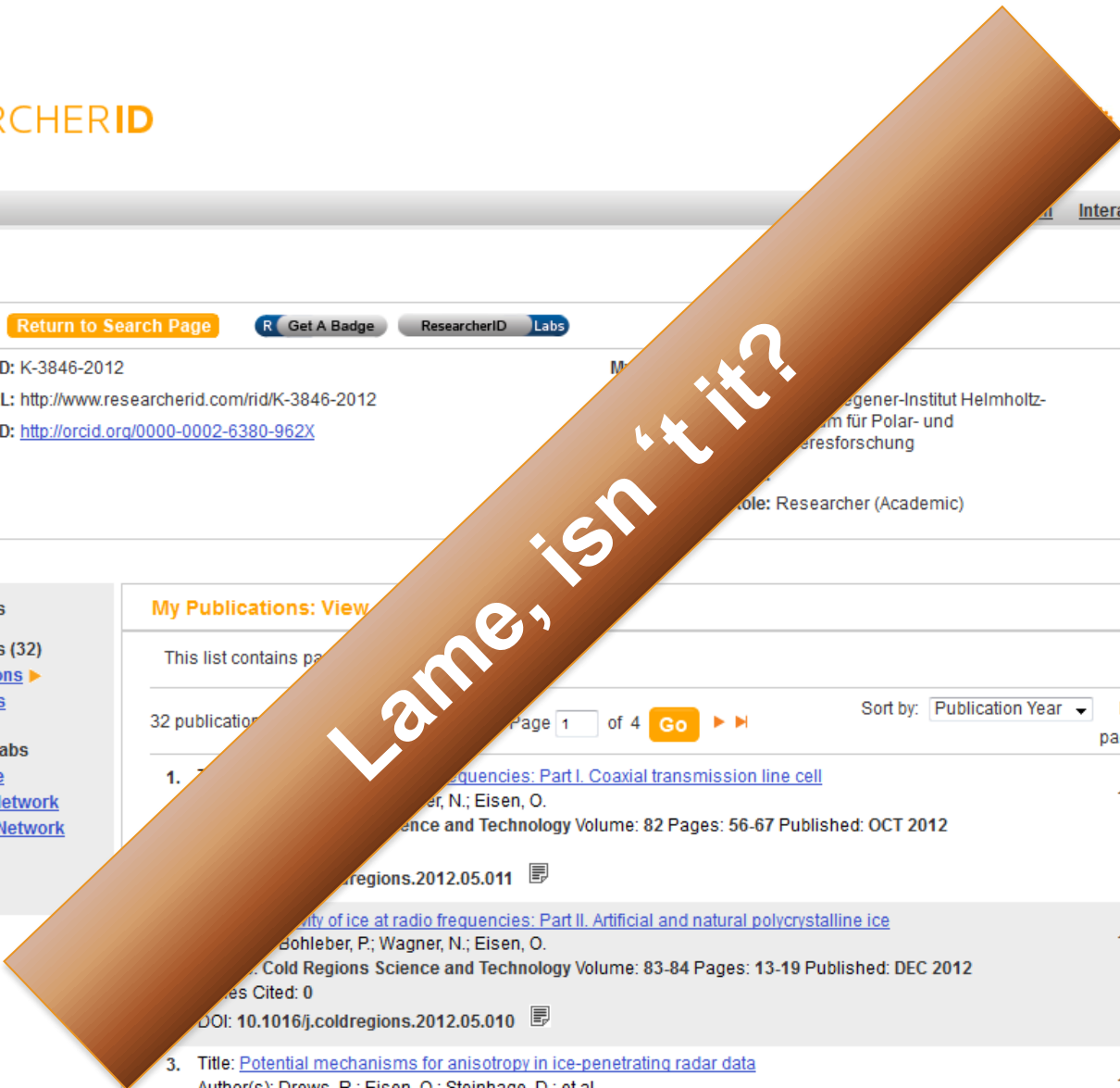
32 publication

Page 1 of 4 [Go](#) ▶▶

Sort by: [Publication Year](#) ▼

Results per page: 10 ▼

1. Title: [...quencies: Part I. Coaxial transmission line cell](#) added 10-Dec-12
Author(s): ...er, N.; Eisen, O.
Source: ...ence and Technology Volume: 82 Pages: 56-67 Published: OCT 2012
DOI: 10.1016/j.coldregions.2012.05.011
2. Title: [...ity of ice at radio frequencies: Part II. Artificial and natural polycrystalline ice](#) added 10-Dec-12
Author(s): ...ohleber, P.; Wagner, N.; Eisen, O.
Source: ... Cold Regions Science and Technology Volume: 83-84 Pages: 13-19 Published: DEC 2012
Times Cited: 0
DOI: 10.1016/j.coldregions.2012.05.010
3. Title: [Potential mechanisms for anisotropy in ice-penetrating radar data](#) added 10-Dec-12
Author(s): Drews, R.; Eisen, O.; Steinhage, D.; et al.
Source: Journal of Glaciology Volume: 58 Issue: 209 Pages: 613-624 Published: 2012
Times Cited: 1
DOI: 10.3189/2012.InG11.1114



On a related front-line...

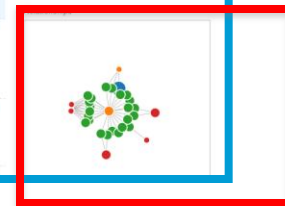


<http://expedition.awi.de>

Publications

Data

Relationships



Expeditions

Platform	Expedition	Alias	Begin	End	Chief scientist(s)
Polarstern	PS87	ARK-XXVIII/4	2014-08-02 - Tromsø	2014-10-07 - Bremerhaven	Stain, R.
Polarstern	PS86	ARK-XXVIII/2	2014-07-01 - Tromsø	2014-07-30 - Tromsø	Bortus, A.
Polarstern	PS85	ARK-XXVIII/2	2014-06-06 - Longyearbyen	2014-06-29 - Tromsø	Rabe, n.
Polarstern	PS84	ARK-XXVIII/1	2014-05-15 - Bremerhaven	2014-05-05 - Longyearbyen	Schewe, I.
Polarstern	PS83	ANT-XXXIX/10	2014-03-08 - Cape Town	2014-04-13 - Bremerhaven	Deneke, H.
Polarstern	PS82	ANT-XXXIX/9	2013-12-19 - Cape Town	2014-03-05 - Cape Town	Knutz, R.
Polarstern	ANT-XXXIX/8	PS81	2013-11-09 - Cape Town	2013-12-16 - Cape Town	Schindwein, V.
Heincke	HE412	BSH20130191	2013-10-29 - Bremerhaven	2013-11-12 - Bremerhaven	Winter, C.
Heincke	HE411	BSH20130190	2013-10-17 - Bremerhaven	2013-10-26 - Bremerhaven	Hass, C.
Heincke	HE410	BSH20130189	2013-10-04 - Bremerhaven	2013-10-15 - Bremerhaven	Baldwin, T.
Heincke	HE409	BSH20130188	2013-09-18 - Bremerhaven	2013-10-01 - Bremerhaven	Löder, A.
Heincke	HE408	BSH20130187	2013-08-16 - Bremerhaven	2013-09-15 - Bremerhaven	Mark, F.
Polarstern	ANT-XXXVII/7	PS81	2013-08-14 - Punta Arenas	2013-10-16 - Cape Town	Meyer, B.
Heincke	HE407	BSH20130186	2013-07-30 - Bremerhaven	2013-08-13 - Bremerhaven	Rüttgers, R.
Heincke	HE406	BSH20130185	2013-07-16 - Bremerhaven	2013-07-25 - Bremerhaven	Kasten, S.
Heincke	HE405	BSH20130184	2013-06-27 - Bremerhaven	2013-07-13 - Bremerhaven	Kiel, H.
Heincke	HE404	BSH20130228	2013-06-20 - Bremerhaven	2013-06-25 - Bremerhaven	Koch, B.
Heincke	HE402	BSH20130182	2013-06-09 - Helgoland	2013-06-17 - Bremerhaven	Gloe, D.
Polarstern	ANT-XXXVI/6	PS81	2013-06-08 - Cape Town	2013-08-12 - Punta Arenas	Lemke, P.
Heincke	HE401	BSH20130181	2013-05-27 - Bremerhaven	2013-06-09 - Helgoland	Gloe, D.

Role (chief scientist, PI, participant)

Repositories 2020: the must haves



- Author **disambiguation**: ORCIDs
- **Contextual information** (projects, interests, social networks, data, expeditions, samples, etc) and **relationships**
- Comfortable **discovery**, **ingest** and **share**: faceted search, import from CrossRef and DataCite services, BibTeX, DropBox, follow/followers
- **Pre-DOIs** (i.e.: sensible submission workflows)
- Flexible **reporting** solutions

Roadmap



- EPIC
- Lessons learned
- **Vision**

Personal Info



ORCID
Registry, update
authentication

Publications



Data, SW



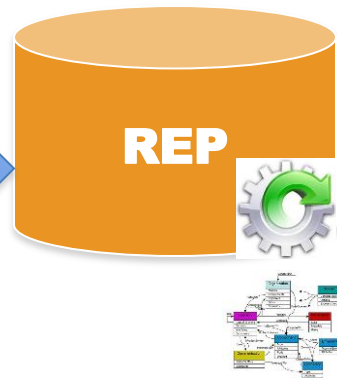
Projects



Campaigns



Helmholtz
staff



+ core services
+ ontology
engineering
+ reporting



„REP“ trusted by
ORCID

