



Fachinformationsdienst Geowissenschaften
Specialised Information Service for Geosciences
Services for Openness in Earth Sciences

Background



Challenges

Open Source



Open Educational Resources



ROR

Open Data

Data Acts

FAIR Principles

- Findable
- Accessible
- Interoperable
- Reusable

HELP!!

Open Access



Open Methodology

ORCID

Connecting Research and Researchers

Open Peer Review

(<https://www.alamy.de/stockfoto-wissenschaftlerin-mit-lupe-163648035.html>)



Fachinformationsdienst Geowissenschaften

Specialised Information Service for Geosciences

**A hub for the publication and the connection of diverse research results
and groups in Germany**

Melanie Lorenz, Kirsten Elger, Inke Achterberg and Malte Semmler



Mission

Library based
Information service

open access to
digital resources

Funded by
DFG Deutsche
Forschungsgemeinschaft
German Research Foundation

highly connected
librarians,
geoscientists,
data-publishing-
professionals



open information
infrastructure

Engage with the
Geoscience Community

Services

Collaborations



Open Science



Research Data



 **GFZ DATA SERVICES**
GEOSCIENCES DATA PUBLISHER



Open Access



Digitization



Community Engagement

Open Science

data

Table S3. Sierra Nevada analyses of plant samples				Element concentrations (µg/g)				
sample ID	IGSN	brief sample description		Al	Fe	Mn	Mg	Ca
Table SN1. Sierra Nevada analyses of soil, saprolite, rock, bedload sediment and				Major element oxides (wt%) (continued)				
sample ID	IGSN	sample type	XRF lab	depth (cm)	SiO ₂	TiO ₂	Al ₂ O ₃	Fe ₂ O ₃
MW1								
MW2								
MW3								
MW4								
mean (2SE)								
SN01	* GFFB1002T	bulk soil	GFZ	7	36.2	0.55	11.4	3.88
SN02	* GFFB1002U	bulk soil	GFZ	20	49.3	0.71	14.9	4.84
SN02c	* GFFB1002U	exchangeable soil	-	20	n.a.	<lod	0.00	0.00
SN02r	* GFFB1002U	residuum soil	-	20	n.a.	0.84	14.3	5.68
SN03	* GFFB1002V	bulk soil	GFZ	30	57.5	0.88	17.6	6.44
SN04	* GFFB1002R	bulk soil	GFZ	39	56.6	0.93	17.7	6.85
SN04e	* GFFB1002R	exchangeable soil	-	39	n.a.	<lod	0.00	0.00
SN04r	* GFFB1002R	residuum soil	-	39	n.a.	0.91	15.3	6.95

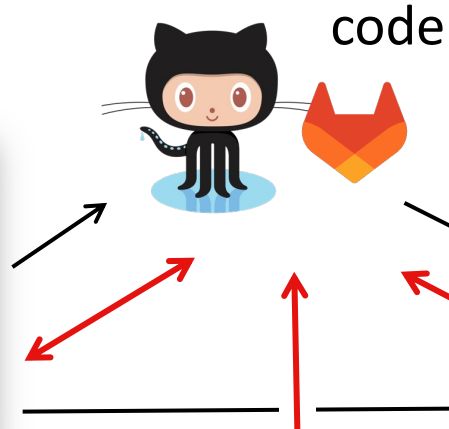


sample



Sample description

Data publication



papers

PIDs connect everything → FAIR



Metadata Elements: Persistent Identifier (PID)



for paper, data,
software

<https://doi.org/10.5880/fidgeo.2021.049> (Data)



PID for physical samples,
cross references to
samples underlying
measurements

<https://igsn.org/GFFJH00AD> (Rock sample)



uniquely identifying
persons

<https://orcid.org/0000-0001-5140-8602> (Kirsten Elger)



New PID for Institutions

<https://ror.org/046ak2485> (FU Berlin)

PIDs ARE RESOLVABLE AND MACHINE-ACTIONABLE

Open Access Repository

Geoscientific Repository for the publication of

- Scientific articles
- Monographs
- Institutional series
- Excursion guides
- Conference proceedings

Offering

- Free access, open licences
- Long-term archiving
- DOI, ORCID
- Full text search - Visibility in portals and library catalogs
- Overview map of freely available online geological maps

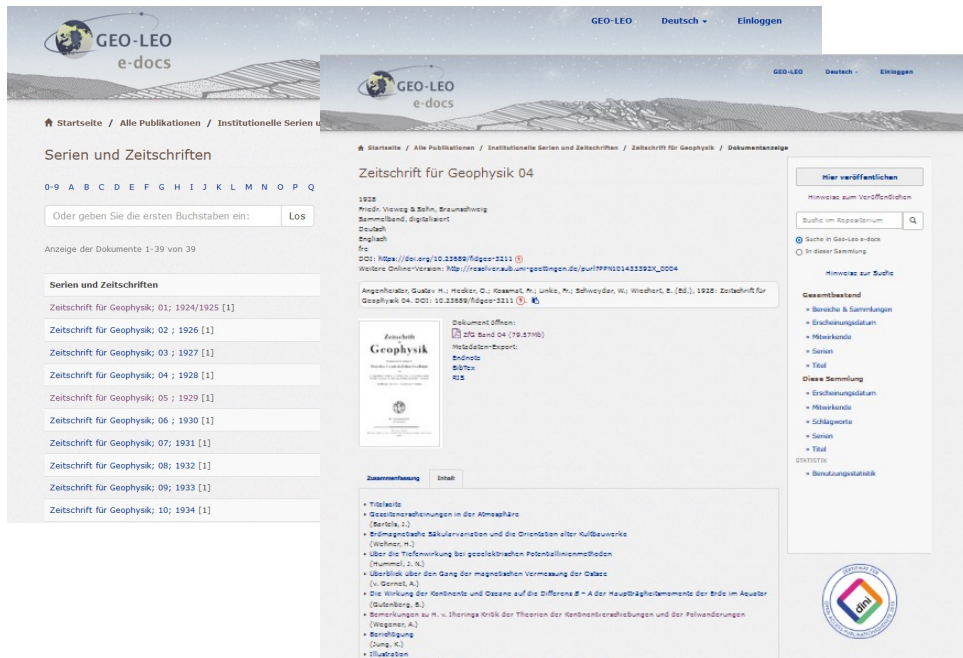


A screenshot of the GEO-LEO e-docs website. The page features a header with the logo and a search bar. Below the header, there are several categories of publications, each with a representative image and a title. The categories include: Geologie, Paläontologie, Geobiologie, Geochemie, Mineralogie, Petrologie, Geophysik, Extraterrestrische Forschung, Montanwesen, Energie, Ressourcen, Umwelt, Geographie, Hydrologie, and Übersichtskarte. There is also a section for 'Fortlaufende Netzpublikationen' with a list of journals and their covers, including GAUSSIANA, Geologische Blätter, GMIT, GGA, TELMA, Mitteilungen / Deutsche Geophysikalische Gesellschaft, Themenhefte Vorsorgender Bodenschutz, and Mainzer geowissenschaftliche Mitteilungen. On the right side, there is a sidebar with a search bar, a 'Veröffentlichen' button, and a list of 'Hinweise zum Veröffentlichen' and 'Hinweise zur Suche'. At the bottom right, there is a circular logo for 'CERTIFIKAT FÜR DIGITALE PUBLIKATIONEN 2019'.

Open Access Repository

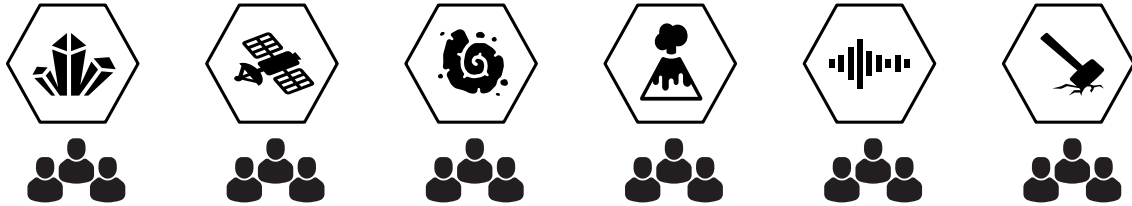
Open-Access-Transformation of geoscientific Journals

- Online Publication on GEO-LEO e-docs
- Digitization of older issues *inclusive*



Community Engagement

Consulting + Lectures + Workshops – adapted to the individual sub-disciplines



- How to make the most of your ORCID record.
- Describing, publishing and citing research data.
- Relevant data acts for geosciences.
- Open Science, Open Data, Open Access – what are open paths in geoscientific publishing?

Editorial Work (e.g. hands on articles on open science best practices)

forschungsdaten.info

open
access
network



GMIT – Geowissenschaftliche Mitteilungen

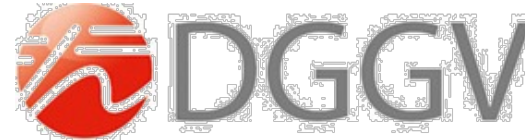
How to cite data publications correctly
(<https://doi.org/10.23689/fidgeo-5833>)

Recommendations for using ORCID
(<https://doi.org/10.23689/fidgeo-5832>)



Collaborations

Geoscience Academic Societies + other Geoscience Associations in Germany



Information services + the National Research Data Infrastructure 4 Earth



Subject-relevant libraries (Arbeitskreis Geo- und Umweltbibliotheken), GeoParks

Outreach

Communication Channels (fidgeo.de, Social Media)



fidgeo.de

@fid_geo

@fidgeo@openbiblio.social

news-on@fidgeo.de

Information about and input to relevant data acts: **German Geological Data Act, upcoming Research Data Act** – for a representation of the Geoscience Community and our interests

Thank you for your attention!

Team



FID **GEO**

@ GFZ



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@ SUB