KOMET Project

Open Metadata Evaluation Report

Tracking contributions to OpenCitations and Wikidata

January 2026

Generated from komet_evaluation.ipynb

KOMET Project Evaluation Report

About KOMET

KOMET — *Kollaborative Anreicherung der Metadatenallmende zur Förderung eines diversen Open-Access-Ökosystems* (Collaborative Enrichment of the Metadata Commons to Foster a Diverse Open Access Ecosystem) — enhances metadata processes for independent, scholar-led Open Access journals. The project develops plugins and tools for Open Journal Systems (OJS) to improve article discoverability (https://projects.tib.eu/komet/en/).

KOMET builds on its related project OPTIMETA (https://projects.tib.eu/optimeta/en/) and develops three OJS plugins:

- **PID Plugin**: Integrating validated persistent identifiers (ROR, IGSN, PIDINST, ConfIDent) into article metadata
- **Citations Plugin**: Structured citation metadata capture and publication to the open citation graph via OpenCitations Crowdsourcing (https://github.com/opencitations/crowdsourcing)
- **Geo Plugin**: Geospatial and temporal metadata for location-based article discovery via OPTIMAP (https://optimap.science/)

Funding: BMBFTR (German Federal Ministry of Education and Research)
Duration: September 2023 – August 2025
Partners: TIB Hannover (coordinator), TU Dresden

The project outputs are available on GitHub (https://github.com/TIBHannover/optimetaCitations, https://github.com/TIBHannover/optimetaGeo, https://github.com/TIBHannover/optimeta-plugin-shared) and the team communicates via Mastodon (https://openbiblio.social/@komet).

This Notebook: AP 4.3 Evaluation

This notebook implements **Work Package 4.3: Evaluation** from the KOMET project proposal, tracking contributions to the open metadata commons.

Data Sources & Platform Priority

Source	Purpose	Priority
OpenCitations	Citation metadata contributions	Primary
Wikidata	Scholarly graph baseline & P2860 citations	Monitoring
OpenAIRE	Future: citation data exploration	Planned

Report Information

Field	Value
Generated	2026-01-30 12:43:36 UTC
Timeline Version	2.0
Last Updated	2026-01-30 12:24:33 UTC
Update Frequency	Monthly (1st of each month)

1. Wikidata Analysis

1.1 P1343 (Described by Source) - Limited Reach

The original KOMET proposal mentioned using **P1343 ("described by source")** to mark contributions from project plugins. However, our analysis reveals this property has **very limited usage** for scholarly articles:

- P1343 is primarily used for encyclopedias/reference works
- It is **NOT** the standard property for citations in Wikidata
- The primary citation property is **P2860 ("cites work")** with ~3.4M relationships
- **Wikidata is no longer the primary target** — OpenCitations is the focus

P1343 Limitation Finding

Metric	Value
Scholarly articles with P1343	**14**
Total scholarly articles in Wikidata	~37,000,000
Items referencing KOMET as source	0

> **Conclusion:** P1343 is not suitable for tracking KOMET contributions. Focus shifted to OpenCitations.

1.2 P2860 (Cites Work) - Partner Journal Baseline

We track **P2860 (cites work)** relationships for KOMET partner journals to establish a baseline for measuring impact over time.

Partner Journals Source: The list of partner journals originates from the related project OPTIMETA (https://projects.tib.eu/optimeta/en/). These are OJS-based journals from academic institutions that have committed to testing the KOMET plugins.

Partner Journal Wikidata Statistics

Total journals tracked: 15 | **Total articles:** 42 | **Total citations:** 2

Journal	Partner	Wikidata QID	Articles	Citations (P2860)
Journal of South Asian Linguistics	KIM Universität Konstanz	Q122948152	0	0

Journal	Partner	Wikidata QID	Articles	Citations (P2860)
Free Neuropathology	WWU Münster	Q108455809	0	0
Jahrbuch für Christliche Sozialwissenschaften	WWU Münster	Q1678617	0	0
Journal für Kulturpflanzen	Julius Kühn-Institut	Q1455822	0	0
VITIS - Journal of Grapevine Research	Julius Kühn-Institut	Q15756080	0	0
Journal of Applied Botany and Food Quality	Julius Kühn-Institut	Q15764825	0	0
Francia-Recensio	heiJOURNALS Heidelberg	Q101247086	0	0
Heidelberger Beiträge zum Finanz- und Steuerrecht	heiJOURNALS Heidelberg	Q105103105	0	0
Informationspraxis	heiJOURNALS Heidelberg	Q46478422	28	2
International Journal of Dream Research	heiJOURNALS Heidelberg	Q96332444	0	0
Journal of Dynamic Decision Making	heiJOURNALS Heidelberg	Q50817185	0	0
Archäologischer Anzeiger	Deutsches Archäologisches Institut	Q636752	0	0
Journal of Spatial Information Science	JOSIS / TU Dresden	Q50814880	0	0
Cognitio	ZHB Luzern	Q111049844	0	0
itdb - inter- und transdisziplinäre Bildung	ZHB Luzern	Q107074231	14	0

1.3 Comparison with 2022 Baseline

The 2022 baseline data allows tracking changes in Wikidata coverage over time.

2022 Baseline vs Current Wikidata Coverage

Journal	2022 Articles	Current Articles	Change	OpenAlex (2022)
Journal of South Asian Linguistics	0	0	+0	0
Free Neuropathology	0	0	+0	0
Jahrbuch für Christliche Sozialwissensch...	0	0	+0	850
Journal für Kulturpflanzen	0	0	+0	558

Journal	2022 Articles	Current Articles	Change	OpenAlex (2022)
VITIS - Journal of Grapevine Research	0	0	+0	1762
Journal of Applied Botany and Food Quali...	3	0	-3	419
Francia-Recensio	1	0	-1	1096
Heidelberger Beiträge zum Finanz- und St...	0	0	+0	0
Informationspraxis	55	28	-27	43
International Journal of Dream Research	0	0	+0	352
Journal of Dynamic Decision Making	0	0	+0	18
Archäologischer Anzeiger	0	0	+0	224
Journal of Spatial Information Science	25	0	-25	201
Cognitio	31	0	-31	0
itdb - inter- und transdisziplinäre Bild...	13	14	+1	0

1.4 Key Observations & Interpretation

The comparison between Wikidata coverage and OpenAlex data reveals significant insights about the current state of metadata in the open knowledge commons.

Key Findings

Metric	Value
Active Journals in Wikidata	2 of 15 journals have articles indexed
Wikidata vs OpenAlex Gap	0.8% Wikidata coverage of OpenAlex articles

Notable Observations:

- **Informationspraxis** (Q46478422) leads with 28 articles and 2 citation relationships — the only journal with P2860 data
- **itdb** (Q107074231) shows organic growth: 14 articles (up from 13 in 2022 baseline)
- **8 journals** have significant OpenAlex coverage but zero Wikidata presence

The Metadata Gap: OpenAlex vs Wikidata

These journals have substantial article counts in OpenAlex but are not yet represented in Wikidata:

Journal	OpenAlex Articles	Wikidata Articles
VITIS - Journal of Grapevine Research	1762	0

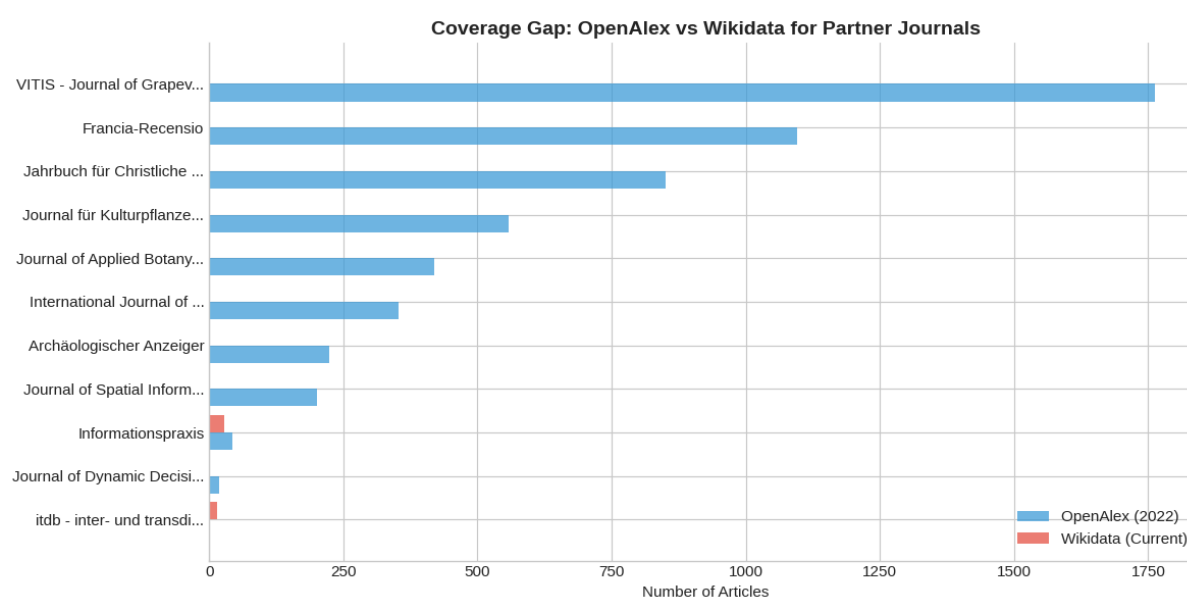| Journal	OpenAlex Articles	Wikidata Articles
Francia-Recensio	1096	0
Jahrbuch für Christliche Sozialwissenschaften	850	0
Journal für Kulturpflanzen	558	0
Journal of Applied Botany and Food Quality	419	0
International Journal of Dream Research	352	0
Archäologischer Anzeiger	224	0
Journal of Spatial Information Science	201	0

Figure 1: The gap between OpenAlex coverage and Wikidata presence demonstrates the opportunity for KOMET to enrich the metadata commons.

1.5 Interpretation & Implications for KOMET

What the Data Shows

The stark contrast between OpenAlex coverage (thousands of articles) and Wikidata presence (near zero for most journals) demonstrates the **metadata gap** that KOMET aims to address. This gap exists because:

1. **No automated pipeline**: Unlike OpenAlex, which aggregates from multiple sources, Wikidata requires explicit contributions
2. **Manual effort barrier**: Adding scholarly articles to Wikidata traditionally requires significant manual work
3. **Tool availability**: Until KOMET plugins, OJS journals lacked easy mechanisms to publish structured metadata

Why This Matters

- **Discoverability**: Articles not in open knowledge graphs are harder to find and cite

- **Citation tracking**: Without structured citation data, the impact of independent journals remains invisible
- **Diverse OA ecosystem**: Scholar-led journals are underrepresented in major metadata infrastructures

KOMET's Opportunity

The baseline data shows that even minimal intervention can make a difference:

- **Informationspraxis** demonstrates that journals *can* achieve Wikidata presence with effort
- **itdb's growth** (+1 article since 2022) shows organic improvement is possible but slow
- The **5,000+ articles** in OpenAlex from partner journals represent untapped potential for enriching the metadata commons

> **Bottom line**: KOMET plugins can help bridge this gap by automating metadata publication from OJS to open infrastructures like OpenCitations, making the work of independent journals more visible and connected.

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2. OpenCitations Crowdsourcing Analysis

OpenCitations is the primary target platform for KOMET citation metadata contributions.

The crowdsourcing repository (https://github.com/opencitations/crowdsourcing) allows trusted agents to contribute citation metadata via GitHub Issues.

OpenCitations Crowdsourcing Overview

All Crowdsourcing Activity
Total submissions: 15

Status	Count
invalid	11
unknown	2
done	1
to_be_processed	1

KOMET Contributions
Total KOMET submissions: 4

Status	Count
Successful	0
Pending	0
Invalid	4

All OpenCitations Submissions by Status
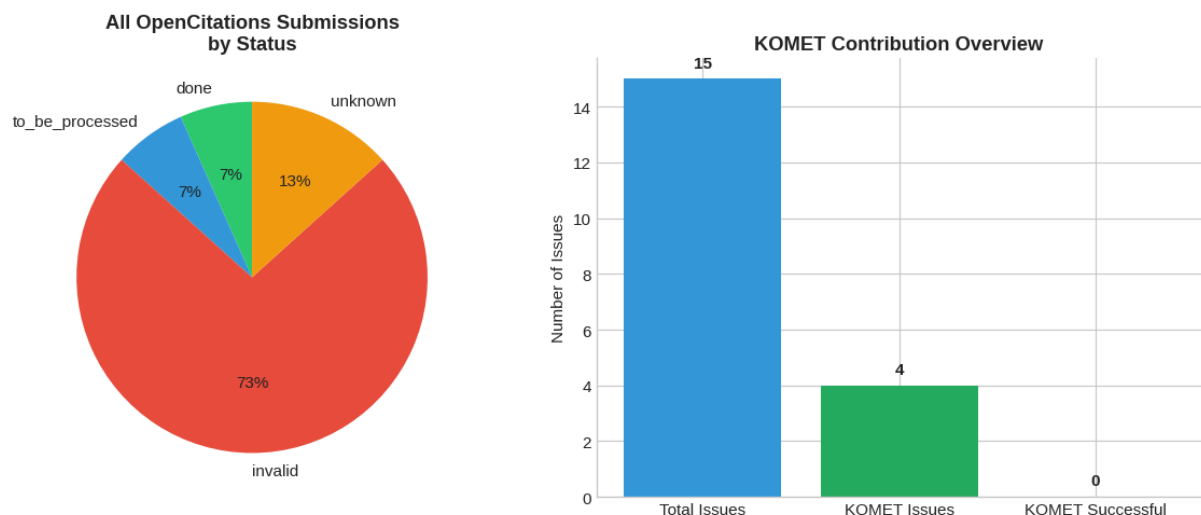
KOMET Contribution Overview

Figure 2: OpenCitations crowdsourcing activity breakdown showing KOMET's contribution share.

KOMET Software Contributions

Contributors tracked: GaziYucel

Issue	Title	Status	Created	Creator
#6	deposit localhost doi:10.1234/37fs2v66	invalid	2025-10-10	GaziYucel
#5	deposit localhost doi:10.1234/37fs2v66	invalid	2025-10-09	GaziYucel
#4	deposit localhost doi:10.1234/37fs2v66	invalid	2025-10-09	GaziYucel
#3	deposit localhost doi:10.0000/1rjphk47	invalid	2025-03-27	GaziYucel
#2	Add GaziYucel to whitelist.txt	rejected	2023-04-04	GaziYucel

3. Partner Journal Overview

Complete overview of all KOMET collaboration partners and their journals. The partner list originates from the OPTIMETA project (https://projects.tib.eu/optimeta/en/).

Summary: 15 journals with Wikidata entries | 7 journals pending Wikidata creation

Journals with Wikidata Entries

Journal	Partner Organization	Website	Wikidata	OJS Version
Journal of South Asian Linguistics	KIM Universität Konstanz	Link	Q122948152	3.3.0.14
Free Neuropathology	WWU Münster	Link	Q108455809	3.3.0.13
Jahrbuch für Christliche Sozialwissenschaften	WWU Münster	Link	Q1678617	3.3.0.13
Journal für Kulturpflanzen	Julius Kühn-Institut	Link	Q1455822	3.3.0.8

Journal	Partner Organization	Website	Wikidata	OJS Version
VITIS - Journal of Grapevine Research	Julius Kühn-Institut	Link	Q15756080	3.3.0.8
Journal of Applied Botany and Food Quality	Julius Kühn-Institut	Link	Q15764825	3.3.0.8
Francia-Recensio	heiJOURNALS Heidelberg	Link	Q101247086	3.2.1.4
Heidelberger Beiträge zum Finanz- und Steuerrecht	heiJOURNALS Heidelberg	Link	Q105103105	3.2.1.4
Informationspraxis	heiJOURNALS Heidelberg	Link	Q46478422	3.2.1.4
International Journal of Dream Research	heiJOURNALS Heidelberg	Link	Q96332444	3.2.1.4
Journal of Dynamic Decision Making	heiJOURNALS Heidelberg	Link	Q50817185	3.2.1.4
Archäologischer Anzeiger	Deutsches Archäologisches Institut	Link	Q636752	3.4.0.6
Journal of Spatial Information Science	JOSIS / TU Dresden	Link	Q50814880	3.3.0.6
Cognitio	ZHB Luzern	Link	Q111049844	3.3.0.12
itdb - inter- und transdisziplinäre Bildung	ZHB Luzern	Link	Q107074231	3.3.0.12

Journals Pending Wikidata Creation
- Formal Approaches to South Asian Languages (KIM Konstanz)
- Journal of Historical Syntax (KIM Konstanz)
- KIM Kompakt (KIM Konstanz)
- The Byzantine Review (WWU Münster)
- Mittelalter Digital (WWU Münster)
- Volcanica (Independent)
- GEUS Bulletin (Independent)

Publishing Platforms
- KIM - Universität Konstanz
- WWU E-Journals Münster
- e-journals Julius Kühn-Institut
- heiJOURNALS Heidelberg
- TIB Open Publishing
- ZHB Luzern

4. Summary & Key Metrics

Summary Metrics

Metric	Value
Partner Journals	15
Wikidata Articles	42
OpenCitations Submissions	4
Successful Deposits	0

OpenCitations Metrics Timeline

Metric	Value	Last Updated
KOMET Successful	0	2026-01-30
KOMET Invalid	4	2026-01-30
KOMET Issues	5	2026-01-30
KOMET Pending	0	2026-01-30
Total Crowdsourcing Issues	16	2026-01-30

5. Next Steps

Immediate Actions

1. **OpenCitations focus**: Monitor contributions and encourage more submissions from partner journals
2. **Baseline established**: Current Wikidata statistics captured for future comparison
3. **Automated updates**: This report runs monthly via GitHub Actions CI (1st of each month)

Future Work

- Explore OpenAIRE API for additional citation data
- Track additional accounts associated with KOMET software deposits
- Create visualization dashboards for trends over time
- Add Wikidata entries for journals without QIDs
- Track citation growth as journals adopt KOMET plugins

Funding

Bundesministerium
für Forschung, Technologie
und Raumfahrt

License & Data Sources

This Notebook
- **Code**: CC0 1.0 Universal
- **Report outputs**: CC-BY 4.0

External Data Sources

Source	License	Terms
Wikidata	CC0 1.0	Wikidata Licensing
OpenCitations	CC0 1.0	OpenCitations Licensing
GitHub API	GitHub ToS	GitHub Terms of Service

Citation

```
@software{komet_report,
  author = {KOMET Project Team},
  title = {KOMET Evaluation Report: Tracking Open Metadata Contributions},
  url = {https://github.com/TIBHannover/komet-report},
  year = {2024-2025}
}
```

Project Website: https://projects.tib.eu/komet