

Introducing the OpenAIRE Graph API

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Getting Started with the API

<https://graph.openaire.eu/docs/apis/graph-api/>

REST API

Free-to-use APIs accessible over HTTPS - enabling seamless communication between diverse systems and platforms.

Base URL

All API requests start with this endpoint

<https://api.openaire.eu/graph/>

Interactive Documentation

Swagger UI available at the base URL

Test endpoints directly in your browser

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GET Method

Standard GET requests with clear semantics for retrieving scholarly resources and metadata.



JSON Responses

Structured, human-readable data that's easily parseable by any programming language

```
{
  id: "doi_dedup__::a55b42c0d32a4a24cf99e621623d110e",
  mainTitle: "OpenAIRE Graph Dataset",
  description: [
    "The OpenAIRE Graph is exported as several datasets",
  ],
  type: "dataset",
  publicationDate: "2023-08-08",
  publisher: "Zenodo",
  id: [
    {
      scheme: "Digital Object Identifier",
      value: "10.5281/zenodo.8217359"
    }
  ],
  // for brevity, the rest of the fields are omitted
}
```

Core Entities and Endpoints

Research Products

GET /researchProducts

Access publications, datasets, software, and other research outputs

Data Sources

GET /dataSources

Discover repositories, journals, and other content providers

Organizations

GET /organizations

Retrieve academic institutions, research centers, and funding bodies

Projects

GET /projects

Explore funded research projects and their relationships

Coming Soon:

Persons endpoint (GET /persons) will provide access to researcher profiles and their associated works.

Scholix Citation Links



The API provides access to citation relationships through the **researchProducts/links** endpoint, implementing the **Scholix standard** for scholarly link exchange.

This enables you to map citation networks, track research impact, and discover related works across the entire graph.

```
{
  "RelationshipType": {
    "Name": "IsRelatedTo",
    "SubType": "cites",
    "SubTypeSchema": "datacite"
  },
  "source": {
    "Identifier": [
      {
        "ID": "10.1108/k-08-2023-1556",
        "IDScheme": "doi",
        "IDURL": "https://doi.org/10.1108/k-08-2023-1556"
      },
      {
        "ID": "50|doi_____::368a80d3c098d7b866752a75f97f3aba",
        "IDScheme": "openaireIdentifier",
        "IDURL": null
      }
    ],
    "Title": "Study on urban green development efficiency of Jiangsu",
    "Type": "literature",
    "Creator": [
      {
        "name": "Dan Liu",
        "identifier": [
```

Query Capabilities



Filtering

Apply sophisticated filters to narrow down results by publication type, date range, funding source, or institutional affiliation. Perfect for targeted research queries.



Sorting

Sort results by relevance, publication date, citation count, or any available metadata field to organize data according to your specific needs.



Paging

Handle large datasets efficiently with built-in pagination controls. Process millions of records without overwhelming your application.

Rate Limits & Authentication

60

Requests/Hour

Unauthenticated rate limit

7200

Requests/Hour

Authenticated rate limit

Authentication is optional but strongly recommended for production applications. All requests use HTTPS for secure data transmission.

Review the complete [terms of use](#) for compliance guidelines.



Documentation

<https://graph.openaire.eu/docs/apis/graph-api/>



API Factsheet

<https://zenodo.org/records/16636086>



Training Material

<https://graph.openaire.eu/training-resources#graph-api>



Python Notebook

Interactive Google Colab notebook with working and code snippets



Graph Portal

<https://graph.openaire.eu/>

User Forum

<https://openaire.flarum.cloud/>

Support

<https://graph.openaire.eu/helpdesk>

Email

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