



info@jana.earth

Jana Earth Data MCP Server Installation Guide for Cursor

Connect Cursor to Jana's environmental data platform. Once set up, you can ask Cursor's AI to query air quality measurements, greenhouse gas emissions, and facility data using natural language.

What You Need

Before you begin, make sure you have:

- **Cursor** installed and working on your machine
- **A Jana account** (email and password) provided by your organization

That's it. No API keys, no tokens, no environment variables to configure.

Step 1: Open MCP Settings

In Cursor, open the MCP configuration file:

1. Open the **Command Palette** (Cmd+Shift+P on macOS, Ctrl+Shift+P on Windows/Linux)
2. Type "**Cursor Settings**" and select it
3. Navigate to the **MCP** section in the sidebar
4. Click "**Add new global MCP server**" — this opens `~/ .cursor/mcp.json` in the editor

Alternatively, open the file directly at `~/ .cursor/mcp.json`.

Step 2: Add the Jana Server

Add the jana entry to the mcpServers object in `mcp.json`:

```
{
  "mcpServers": {
    "jana": {
      "url": "https://mcp-dev.jana.earth/sse",
      "transport": "sse"
    }
  }
}
```

```
}  
}
```

If you already have other MCP servers configured, add the jana block alongside them:

```
{  
  "mcpServers": {  
    "jana": {  
      "url": "https://mcp-dev.jana.earth/sse",  
      "transport": "sse"  
    },  
    "your-other-server": {  
      "command": "..."  
    }  
  }  
}
```

Save the file.

Step 3: Verify the Connection

After saving, Cursor detects the change and connects to the Jana server automatically.

1. Go back to **Cursor Settings** → **MCP**
2. You should see **jana** listed with a green status indicator
3. The Jana tools appear in the tool list

If the status shows red or disconnected, click the refresh button next to the server entry.

Step 4: Sign In (First Time Only)

The first time you use a Jana tool, Cursor opens your browser to a sign-in page.

1. Your browser opens to a page showing the **Jana Earth Data** logo and a sign-in form
2. Enter your **email** and **password** — the same credentials you use for your Jana account
3. Click **Sign In & Authorize**
4. Your browser shows a confirmation message. You can close the tab
5. Return to Cursor — it continues automatically

You stay signed in for one hour. After that, Cursor handles re-authentication on its own. You should not need to sign in again during normal use.

Step 5: Start Asking Questions

You are now connected. Ask Cursor anything about environmental data in the chat panel (Agent or Ask mode). Here are some examples to try:

Air quality:

What are the current PM2.5 levels in Delhi?

Show me air quality measurements for London over the past week.

Emissions:

What are the top CO2-emitting facilities in Germany?

Compare methane emissions from the oil and gas sector in the US and Canada for 2023.

Discovery:

What monitoring stations are within 50 km of Tokyo?

What environmental parameters does the platform track?

Analysis:

Analyze the trend of PM2.5 concentrations in Beijing over the past year.

Are NO2 and PM2.5 levels correlated in Los Angeles?

Export:

Export all air quality data for Brazil in 2024 as a CSV file.

Cursor chooses the right tool, fills in the parameters, and returns the results — all from plain English.

Available Data

The Jana platform aggregates environmental data from three global sources:

Source	What It Covers	Scale
OpenAQ	Air quality measurements (PM2.5, PM10, O3, NO2, SO2, CO)	Station-level, near real-time
Climate TRACE	Greenhouse gas emissions (CO2, CH4, N2O)	Facility-level, annual
EDGAR	National emissions inventories	Country-level, annual

All queries require a location — a country, a bounding box, or a point with a search radius. Cursor handles this for you based on the places you mention in your questions.

Available Tools

Cursor selects from these tools automatically based on your question. You never need to call them directly.

Data access

Tool	What It Does
get_air_quality	Air quality measurements from OpenAQ
get_emissions	Greenhouse gas emissions from Climate TRACE and EDGAR
get_unified_data	Query all data sources in a single request
get_aggregations	Pre-computed hourly, daily, or monthly rollups
find_nearby	Monitoring stations and facilities near a location

Analytics

Tool	What It Does
get_trends	Time-series trend analysis
get_correlations	Statistical correlations between parameters
get_analytics	Anomaly detection and pattern recognition

Data quality and metadata

Tool	What It Does
get_quality	Data completeness and quality scores
get_parameters	Available environmental parameters and units
get_sectors	Emission sectors (power, transport, industry, etc.)
get_definitions	API overview and available endpoints
get_unit_definitions	Measurement units and conversion factors
get_source_metadata	Data source coverage and update frequency

Export

Tool	What It Does
request_export	Start a CSV or JSON export for large datasets
check_export_status	Check whether an export job has finished
download_export	Get the download link for a completed export

System

Tool	What It Does
get_data_summary	Platform-wide data coverage overview
get_system_health	Server health and connectivity status
get_statistics	Record counts and data freshness by source

Troubleshooting

"I don't see any Jana tools in Cursor"

Open **Cursor Settings** → **MCP** and confirm **jana** appears with a green status. If the status is red, click the refresh button. If it's missing, verify your `~/ .cursor/mcp.json` file has the correct configuration from Step 2.

"The browser opened but the page won't load"

Make sure you have internet access to `mcp-dev.jana.earth`. If your organization uses a VPN, ensure it allows outbound HTTPS traffic to that domain.

"Sign-in failed — invalid email or password"

Double-check that you are using your Jana account credentials (the same email and password you would use to log in at your organization's Jana portal). If you have forgotten your password, contact your Jana administrator.

"Tool calls are timing out"

Large queries can take time. Try narrowing your request:

- Use a smaller geographic area (a single city instead of a whole country)
- Shorten the date range
- For very large datasets, ask Cursor to export the data instead of querying it directly

"OAuth error: protected resource does not match"

Make sure the URL in your `mcp.json` is exactly `https://mcp-dev.jana.earth/sse`. Using the raw ALB DNS (`http://dev-jana-mcp-alb-...`) will cause an OAuth mismatch. Update the URL and restart the MCP connection.

"I need to re-authenticate but the browser isn't opening"

1. Open **Cursor Settings** → **MCP**
2. Click the delete button next to the **jana** entry
3. Re-add it following Step 2
4. Restart Cursor or reload the window (`Cmd+Shift+P` → "Developer: Reload Window")

Managing Your Connection

Temporarily disable the server without removing it — add `"disabled": true`:

```
{
  "mcpServers": {
    "jana": {
      "url": "https://mcp-dev.jana.earth/sse",
      "transport": "sse",
      "disabled": true
    }
  }
}
```

```
}  
}
```

Remove the server by deleting the jana block from `~/ .cursor/mcp.json`.

Check connection status from **Cursor Settings** → **MCP**. This shows all configured MCP servers, their status, and available tools.

Getting Help

If you run into issues not covered here, contact your Jana Earth Data administrator.

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