MCP SERVER | NO CODE | CLOUD HOSTED

CORE (Open Access Research) MCP for AI Agents

Search millions of open access scholarly articles and journals by keyword

CORE (Open Access Research) is an MCP that connects your AI agent to the world's largest collection of open access academic papers, journals, and institutional repositories. Instead of navigating complex academic databases, you simply ask your AI client a question about a scientific topic, and this MCP searches across millions of scholarly articles instantly. It retrieves full metadata, version history, and direct download links for research papers, letting you analyze the latest findings without leaving your coding or writing environment.

A+ Quality Score 98.33/100

open-access | research-papers | academic-search | scholarly-data | scientific-articles

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vinkius.com/mcp/core-open-access-research

SCAN TO VIEW

The connectivity layer between AI and the world's software.

Vinkius sits between AI and every application. All communication passes through Vinkius Cloud via the Model Context Protocol (MCP) — with governance, observability, and security at every layer.

Your AI Connections Run Through Vinkius Cloud

The world's largest managed MCP catalog

Vinkius is the connectivity layer where AI connects to the software your business already runs. We handle the hosting, the security, the credentials, the uptime — you get agents that actually do things.

We operate the world's largest managed MCP catalog. Major SaaS platforms, CRMs, databases, and cloud providers — running, monitored, production-ready. This MCP server is hosted and maintained by the Vinkius Cloud for AI Agents.

> *The agent doesn't manage credentials, doesn't manage uptime, doesn't manage security. Vinkius does.*
>
> — Architecture principle

Four Pillars of the Vinkius Runtime

01 — Security by design

Credentials stay encrypted at rest via AES-256. The AI agent never touches raw keys — they're injected into a sandboxed V8 isolate at runtime. Actions are logged, and connections have an emergency kill switch.

02 — Built on MCP Fusion

This MCP server was built with **MCP Fusion**, the open-source framework (Apache 2.0) that powers the entire Vinkius catalog. Schema-as-firewall strips undeclared fields, compiled PII redaction runs at zero overhead, and cryptographic lockfiles produce git-diffable audit trails.

03 — Deterministic observability

Eight immutable metrics per endpoint: request volume, p95 latency, error rate, active connections, cost attribution. A live payload feed logs every tool call with mutation detection.

04 — Autonomous operations

Servers are deployed, monitored, and patched autonomously. New capabilities and security patches ship weekly. Zero-downtime deployments ensure continuous availability across all managed MCP servers.

AES-256	Ed25519	24h TTL	V8 Isolate
Encryption at rest	PKI vault signatures	Ephemeral session keys	Sandboxed execution

One Token. Instant Access.

Every MCP server on Vinkius is accessed through a **Connection Token**. Tokens are generated in the cloud dashboard and produce a unique MCP endpoint URL. Paste this URL into any MCP-compatible client — no SDK required.

A single token can serve **multiple AI clients simultaneously**, or you can issue separate tokens per client for granular access control. Each token tracks its own request count, last activity timestamp, and can be individually enabled or revoked.

MCP ENDPOINT

```
https://edge.vinkius.com/{token}/mcp
```

Claude · Cursor · VS Code · Windsurf · Grok · Gemini

Security Is the Architecture

Security in Vinkius is not a feature — it's the foundation of the runtime. The gateway enforces multiple independent protection layers between AI agents and third-party APIs.

01 — Ed25519 PKI Vault

Every workspace has an Ed25519 Master Key. Session keys are generated ephemerally (24h TTL) and signed by the Master Key. Credentials never leave the vault boundary.

02 — V8 Isolate Sandboxing

Tool code runs inside isolated-vm V8 isolates with 64 MB memory caps and per-request timeouts. No filesystem access, no network access except through the SSRF-guarded fetch bridge.

03 — SSRF Guard

All outbound HTTP requests are DNS-resolved and validated before execution. Private IP ranges (10.x, 172.16-31.x, 192.168.x, AWS metadata 169.254.x) are blocked at the network layer.

04 — DLP & PII Redaction

A ResponseGuard pipeline intercepts every tool response. Configurable redaction patterns strip sensitive fields (emails, SSNs, card numbers) before data reaches the AI agent.

05 — Cryptographic Audit Trail

Every request is signed into a SHA-256 hash chain with Ed25519 signatures. Events form a tamper-proof, SIEM-exportable forensic record.

06 — Honeytoken Trap System

Phantom credentials are injected into isolated environments. If a honeytoken is used outside Vinkius infrastructure, the server is quarantined instantly.

Emergency Kill Switch

EU AI Act Art. 14(1) Compliant

The kill switch is an **emergency halt** mechanism — not a simple toggle. When triggered, it executes three actions atomically:

01 — Server deactivated

The MCP server is immediately taken offline across the entire cluster.

02 — All tokens revoked

Every connection token is invalidated. Total lockout — reconnection blocked until new tokens are issued.

03 — WebSocket connections killed

Active connections terminated via Redis pubsub broadcast. Propagates to every runtime node in the cluster.

Full Visibility. Zero Guesswork.

The Vinkius cloud dashboard includes a full MCP Governance suite — real-time analytics and security controls for production AI operations.

Control Plane

KPI dashboard with request volume, latency, success rate, token consumption, and AI-generated operational briefings.

Agent Activity

Which AI clients are connecting, how often, and what they're doing — real-time session tracking.

FinOps

Cost tracking per tool, payload compression savings, budget optimization signals, and consumption trends.

Tool Health

Slowest and most error-prone tools, with actionable root-cause insights and performance baselines.

Firewall & DLP

PII redaction activity, sensitive data protection counters, and security event timeline.

Incident Log

Error trends, failure rates, status-code breakdowns, and forensic audit trail access.

> Get started at **cloud.vinkius.com** — connect your AI agent in under 60 seconds.

CORE (Open Access Research) MCP

10 tools available
Cloud-hosted on Vinkius

Need to write a literature review but hate digging through paywalls? This connection lets your AI agent access CORE, a huge aggregator of open access scholarly content. You can ask it to find everything on a niche topic—from specific journals by ISSN to full article metadata using just the title or ID.

It’s like having an instant research librarian that never sleeps. Instead of searching separate databases for articles, you talk to your agent, and it performs a global search across millions of papers in one go. You can even check an article's history to make sure you have the most up-to-date information or grab the direct PDF link when you need it.

If you’re building complex research workflows, connecting CORE via Vinkius gives your agent access to this entire corpus of knowledge. It means data scientists can analyze massive open metadata sets, and students can gather citations without ever paying a journal fee.

Core Capabilities

01 — Perform global academic searches

Search across all available CORE resources—articles, journals, and repositories—using one single query.

02 — Retrieve specific scholarly articles

Fetch the full metadata or PDF download link for a research paper when you know its unique CORE ID.

03 — Find journal and repository details

Search for journals using their ISSN, or check out institutional repositories by ID to find authoritative sources.

04 — Resolve complex academic identifiers

Take a general Open Archives Initiative (OAI) identifier and resolve it to access original metadata pages.

05 — Track article updates and changes

Inspect an article's full version history to ensure your research uses the latest scientific data available.

One Click on Vinkius — From Prompt to Execution

Available at **vinkius.com/mcp/core-open-access-research** — connect your AI agent in three steps.

01 First, subscribe to this MCP in Vinkius and enter your CORE API Key.

02 Next, tell your AI client what you need—for example, 'Find all papers on quantum computing from the last five years.'

03 Finally, your agent executes a global search or specific lookup, returning relevant metadata, PDF links, and citation data directly to your chat interface.

The bottom line is that you don't interact with APIs; you just ask questions about academic research, and the MCP handles the complex retrieval process.

Built For

This MCP is built for anyone whose job involves deep dives into scholarly work. If your routine includes literature reviews, data synthesis from papers, or tracking scientific trends, this tool saves massive amounts of time and frustration by cutting out the manual database searching.

PhD Candidate

Uses it to gather citations and explore related research history for a thesis, finding open access versions of content that would otherwise be paywalled.

Data Scientist

Accesses the massive corpus of open metadata from multiple papers to build literature reviews or train models on scientific data.

Academic Researcher

Performs deep dives into specific journals using their ISSNs and tracks article version history when writing grant proposals or publications.

What Changes When You Connect

01 Stop wasting time on paywalls. You can retrieve direct PDF download links using the `get_article_pdf` tool, letting you read full-text papers without needing institutional subscriptions.

02 Stay current with science. Use `get_article_history` to see every update and version of a paper before citing it, ensuring your research is based on the latest findings.

03 Streamline discovery. Instead of searching three different databases, one global search handles articles, journals, and repositories using `global_search` in a single step.

04 Focus on content, not credentials. When you need to find a source by its ISSN, `get_journal` gives you instant access without manual lookups.

05 Build reliable citations. The MCP helps you pull core metadata for any article or journal using functions like `get_article` and `get_journal`, making citation gathering fast.

Real-World Applications

Need a literature review on AI ethics.

Instead of spending hours navigating multiple academic databases, you ask your agent to run a global search. It pulls high-impact articles and summarizes the top findings across different research groups using `search_articles`.

Writing a paper that needs specific data points.

You identify a key source by its CORE ID. You ask your agent to use `get_article` to fetch all the metadata, and then `get_article_pdf` to download the full text for analysis.

Investigating a niche scientific field.

You only know the journal's ISSN. You ask your agent about it, and it uses `get_journal` to confirm the source before running a targeted search on recent articles from that publication.

Mapping out an academic knowledge graph.

You need to know all related sources. Your agent runs multiple searches—one for general topics (`search_articles`), one for related journals (`search_journals`), and one for key repositories (`search_repositories`)—to build a comprehensive map.

Patterns to Avoid

Searching only by keyword.

✗ AVOID

Asking your agent to 'Tell me about transformers.' This gives vague, general results that aren't linked to specific papers or authors.

✓ INSTEAD

Be precise. Instead of a broad query, ask the agent to `search_articles` for 'transformer architectures in NLP published after 2019,' and then use `get_article_pdf` on the top result.

Forgetting source verification.

✗ AVOID

Accepting a paper link without checking if it's the most recent version, leading to outdated citations in your work.

✓ INSTEAD

Always check the article's provenance. Use `get_article_history` to verify the update timeline and ensure you are citing the definitive version.

Ignoring specialized source types.

✗ AVOID

Treating a journal like a general search term, potentially missing crucial contextual information or related publications from its dedicated repository.

✓ INSTEAD

When working with a known publication, first use `get_journal` to confirm the ISSN and then utilize `search_articles` combined with that specific source data.

The Right Fit

Use this MCP if your research workflow requires connecting raw text queries directly to structured academic metadata. It's perfect for students who need citation lists or data scientists needing massive, open corpora for analysis. However, don't use it if you are looking for general news articles or industry reports; CORE is strictly focused on peer-reviewed scholarly content. If your goal is merely to summarize a concept without citing sources, a basic LLM prompt will suffice. But if the source quality and citation accuracy matter—if you need to prove *where* the information came from—then this MCP's deep access tools like `get_article` and `resolve_oai` are essential.

CORE (Open Access Research) MCP: Managing Scientific Literature Search

Right now, finding the right paper is a pain. You start with a general search engine, which gives you links to paywalled journals or outdated summaries. Then you have to click through multiple institutional sites, checking if the source is reliable and if the PDF link even works. It's hours of copy-pasting IDs just to get enough material for one chapter.

With this MCP, your agent does it all in a single step. You simply ask for research on 'CRISPR gene editing ethics,' and it runs a global search across millions of papers. The punchline? You get the metadata and direct links to open access PDFs without ever leaving your writing environment.

CORE (Open Access Research) MCP: Verifying Scholarly Source Authority

A huge manual step is verifying source authority. You might find a reference, but you have to manually check if it came from an official journal or if the data has been updated since publication. This requires checking ISSNs and tracking version changes.

This MCP makes verification automatic. By using tools like `get_journal` (to confirm the publication's credibility) and `get_article_history` (to prove the date of information), your agent ensures every citation you use is verified, authoritative, and current.

CORE (Open Access Research): 10 Tools for Academic Search

Use these tools to perform global searches, retrieve article metadata by ID, find specific journals by ISSN, and download PDFs directly from the CORE database.

#	TOOL	DESCRIPTION
01	`get_article_history`	Retrieves a record of all updates and versions associated with a specific research paper.
02	`get_article_pdf`	Gets the direct URL you need to download the full text PDF for a scholarly article.
03	`get_article`	Fetches all available metadata for an academic paper using its unique CORE ID.
04	`get_journal`	Retrieves detailed information about a specific journal based on its International Standard Serial Number (ISSN).
05	`get_repository`	Gets metadata for an institutional repository when you know its unique ID.
06	`global_search`	Runs a search across all resources—articles, journals, and repositories—in the CORE database.
07	`resolve_oai`	Translates an Open Archives Initiative (OAI) identifier into usable metadata pages.
08	`search_articles`	Searches for articles using keywords and filters across the entire scholarly corpus.
09	`search_journals`	Finds journals that match your criteria, such as title or ISSN.
10	`search_repositories`	Searches for specific institutional archives and data storage locations.

See It in Action

Real prompts you can use once this MCP is connected to your AI agent through Vinkius Cloud.

U What are the latest findings on deep learning in medical imaging?

🔍 **Global Search Results: Deep Learning in Medical Imaging**

• **Article:** 'Transformer Models for Retinal Scan Analysis' (CORE ID: 123456)
* **Date:** 2024-03-15
* **Status:** Available PDF Link [URL]
* **Abstract Snippet:** Showed a 98% accuracy rate on early disease detection.
Journal: Nature Medicine Advances*
* **ISSN:** 2041-XXXX
* **Recent Issue:** Includes five papers focused on deep learning protocols.

Do you want the full metadata for any of these, or should I find more articles from this journal?

U I need a solid source for my thesis on renewable energy.

📚 **Source Found: Renewable Energy Policy**

• **Source Type:** Institutional Repository (ID: 9876)
• **Title:** 'Global Trends in Solar Adoption 2015-2023'
• **Author:** Smith, J. et al.
• **Key Finding:** The data shows a plateauing of growth after 2022 due to supply chain issues.

I've also retrieved the full PDF link for this report and found three related articles on policy changes in Europe.

U Find information about journals focusing on linguistics.

Journal Search: Linguistics Focus

The following high-profile, open access journals match your criteria:

NAME	ISSN	SCOPE	RECENT ARTICLE EXAMPLE
Language Quarterly	2041-LQNQ	Phonetics/Syntax	'Dialectal Shifts in the Midwest'
Cognitive Studies Journal	2234-CSJ	Semantics/NLP	'The Role of Context in Syntax'

Which journal should I focus on? I can list recent articles or check its metadata for you.

Frequently Asked Questions

01 **How does the CORE (Open Access Research) MCP help me find academic papers?**

It searches across millions of open access scholarly resources in one go. You just ask your agent a research question, and it returns relevant metadata and links to full-text PDFs for articles you can download immediately.

02 **Is the CORE (Open Access Research) MCP good for students writing papers?**

It's excellent for students. You can gather reliable citations, explore related research history, and find open access versions of content without having to deal with paywalls or complex database logins.

03 **Can I use the CORE (Open Access Research) MCP to check if a paper is up-to-date?**

Yes. You can inspect an article's complete version history using the MCP, which confirms when it was last updated and ensures you are citing the most current scientific information.

04 **What kind of papers can I find with CORE (Open Access Research) MCP?**

You can find articles from academic journals, full research reports from institutional repositories, and general scholarly findings, all aggregated into one place through the MCP.

05 **Does the CORE (Open Access Research) MCP require specific API knowledge?**

No. You don't need to know anything about APIs. You simply talk to your agent like you're talking to a colleague, asking for what you need—the MCP handles all the complex searching and data retrieval behind the scenes.

Go Live in 60 Seconds

Get your connection token from **cloud.vinkius.com**, then paste the endpoint URL into any MCP-compatible client.

YOUR MCP ENDPOINT

```
https://edge.vinkius.com/[TOKEN]/mcp
```

CLIENT	WHERE TO CONFIGURE
Claude AI	Profile → Customize → Connectors → "+" → Add custom connector → Paste endpoint
Cursor	Settings → Features → MCP Servers → "+ Add New MCP Server" → Type: SSE → Paste endpoint
VS Code	Ctrl/Cmd+Shift+P → "MCP: Add Server" → add `"core-open-access-research": { "url": "…" }`
Windsurf	MCP Settings → `mcp_settings.json` → Add endpoint URL
ChatGPT	Settings → Tools & plugins → Add MCP server → Paste endpoint
Gemini	Extensions → Add MCP Server → Paste endpoint URL

ASK AN AI ABOUT THIS

Let your preferred AI explain this MCP server

- Ask ChatGPT
- Ask Claude
- Ask Perplexity
- Ask Gemini
- Ask Grok

READY TO CONNECT

CORE (Open Access Research) is live on Vinkius Cloud.

Get your connection token, paste it into your AI agent, and start building. No SDK. No deployment. Just results.

Start at cloud.vinkius.com →

vinkius.com · support@vinkius.com

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