

Web of Science Research Assistant

Přínosy pro výzkumníky a české akademické instituce

Kde vzniká hodnota při práci s literaturou

Výzkumník potřebuje vědět, co číst a jak s poznatky dále pracovat.

Začínám nové téma

Potřebuji porozumět pojmům a zúžit výzkumnou otázku.

Mám dlouhý seznam výsledků

Potřebuji rozpoznat relevantní práce a souvislosti.

Připravuji článek nebo projekt

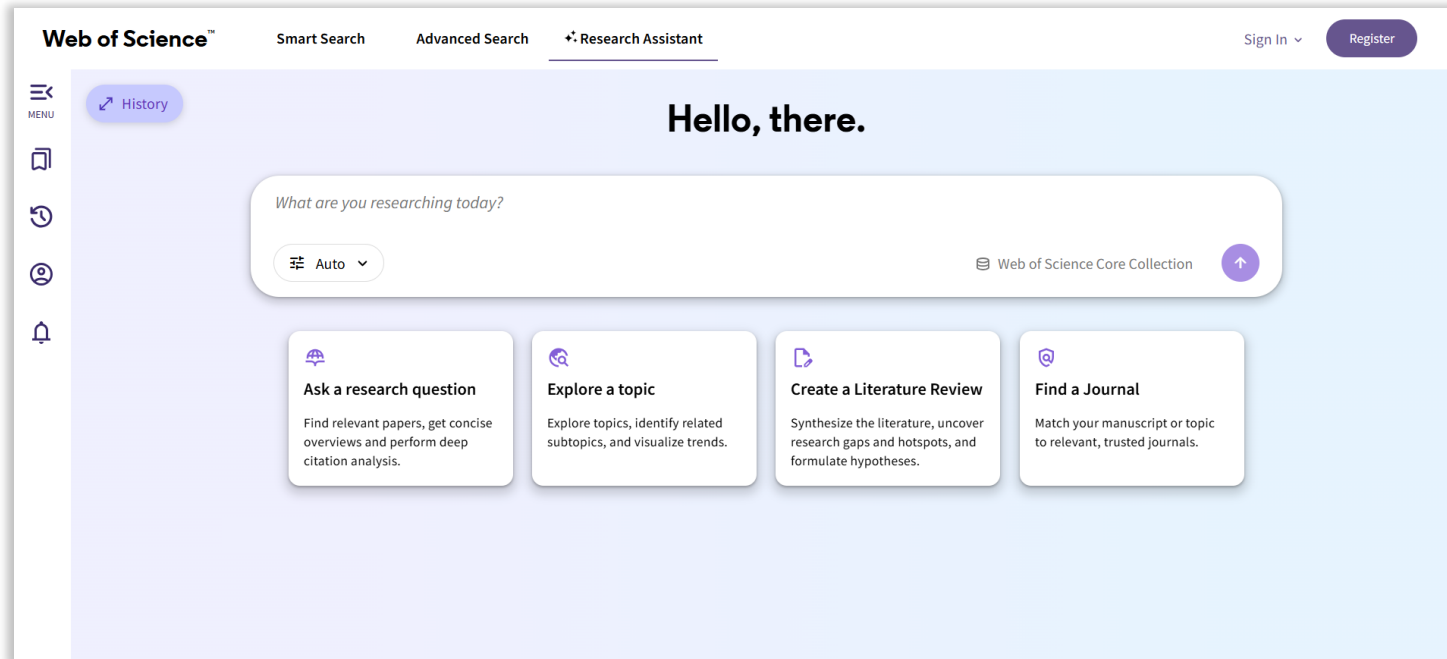
Potřebuji zasadit vlastní záměr do dosavadního výzkumu.

Rozhoduji o dalším kroku

Potřebuji podklady pro volbu tématu, spolupráce nebo časopisu.

Co nabízí Research Assistant

Konverzace nad obsahem Web of Science Core Collection



Výzkumná otázka, přehled literatury a další krok v jednom prostředí.

Otázky v češtině

Navazující úkoly

Dohledatelné publikace

Více prostoru pro porozumění tématu



Snazší začátek
v novém tématu



Rychlejší orientace
v literatuře



Podklady pro další
výzkumný krok

Co přidává Research Assistant k vyhledávání

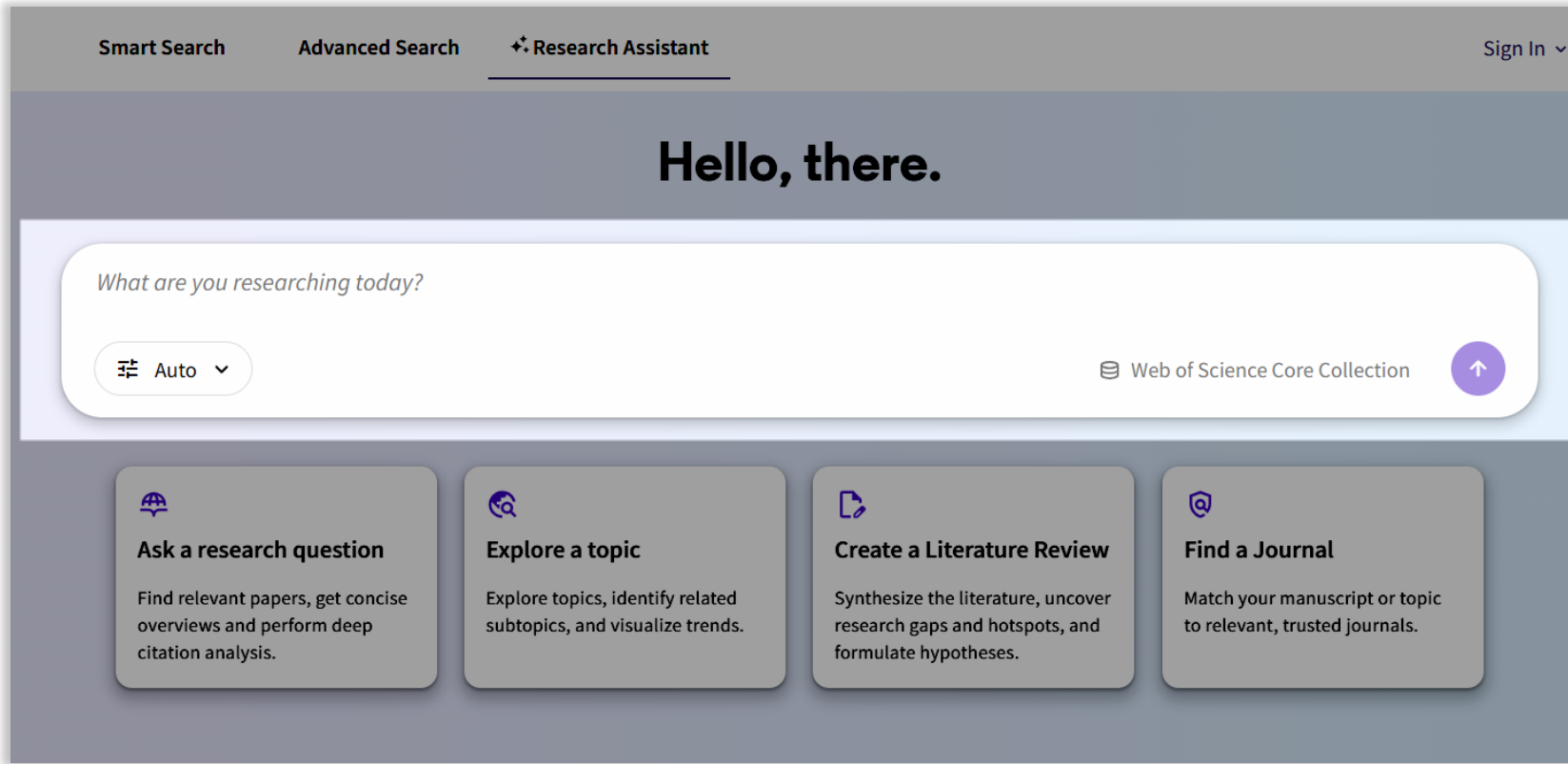
Rozdíl spočívá především v konverzaci a navazujících výzkumných úkolech.

Prostředí	Typický výstup	Kdy jej využít
Smart Search	Relevantní záznamy, případně AI Overview	První hledání a orientace ve výsledcích
Advanced Search	Přesně formulovaný rešeršní dotaz	Kontrola polí, operátorů a rozsahu hledání
Research Assistant	Konverzace, literární přehled, vizualizace a časopisy	Navazující úkoly se zachováním kontextu

AI Overview je ve Smart Search dostupný podle nastavení instituce. RA vyžaduje doplňkové předplatné.

One-Box: navazující výzkumné úkoly

Jedno zadání, zachovaný kontext a možnost pokračovat



The screenshot displays the 'Research Assistant' section of a research platform. At the top, navigation tabs include 'Smart Search', 'Advanced Search', and 'Research Assistant'. A 'Sign In' link is in the top right. Below the tabs, a large grey banner says 'Hello, there.' Underneath is a white search bar with the placeholder text 'What are you researching today?'. To the left of the search bar is a filter icon and the text 'Auto'. To the right is a 'Web of Science Core Collection' label and a purple button with an upward arrow. Below the search bar are four task cards: 'Ask a research question' (with a globe icon), 'Explore a topic' (with a magnifying glass icon), 'Create a Literature Review' (with a document icon), and 'Find a Journal' (with a shield icon). Each card contains a brief description of the task.

Smart Search Advanced Search **Research Assistant** Sign In ▾

Hello, there.

What are you researching today?

⚙️ Auto Web of Science Core Collection ↑

**Ask a research question**

Find relevant papers, get concise overviews and perform deep citation analysis.

**Explore a topic**

Explore topics, identify related subtopics, and visualize trends.

**Create a Literature Review**

Synthesize the literature, uncover research gaps and hotspots, and formulate hypotheses.

**Find a Journal**

Match your manuscript or topic to relevant, trusted journals.



Otázka k tématu

Literární přehled

Výběr časopisu

Dohledatelné zdroje a postup hledání

The screenshot displays a search interface with two main sections. The top section, titled 'How does climate change affect biodiversity?', contains a 'Search strategy' box. This box lists 'Core terms' (climate change, biodiversity), 'Synonyms and related concepts' (global warming, species richness, ecosystem diversity, biological diversity, ecological impact), and a 'Boolean query' ((climate change OR global warming) AND (biodiversity OR species richness OR ecosystem diversity OR biological diversity OR ecological impact)). It also asks if the user wants to proceed with this strategy or refine their focus. The bottom section, titled 'How are these results generated?', shows the search query used: 'TS=(climate change OR global warming) AND TS=(biodiversity OR species richness OR ecosystem diversity OR biological diversity OR ecological impact) not Retracted Publication (Document Type) in Web of Science Core Collection.' It includes an 'Overview' of recent scientific research on the topic and a button to 'View 14 referenced documents'. At the bottom, there are links to 'View all results in Web of Science Core Collection' and 'View related preprints', along with icons for copying text, downloading as PDF, and exporting references as CSV.

How does climate change affect biodiversity?

Search strategy:

Core terms: climate change, biodiversity

Synonyms and related concepts: global warming, species richness, ecosystem diversity, biological diversity, ecological impact

Boolean query: (climate change OR global warming) AND (biodiversity OR species richness OR ecosystem diversity OR biological diversity OR ecological impact)

Would you like to proceed with this search strategy or refine your focus (such as a specific region, ecosystem, or time period)?

Proceed

How are these results generated? ▾

I searched for **TS=(climate change OR global warming) AND TS=(biodiversity OR species richness OR ecosystem diversity OR biological diversity OR ecological impact) not Retracted Publication** (Document Type) in Web of Science Core Collection.

Overview

Recent scientific research demonstrates that climate change profoundly affects biodiversity, influencing species richness, ecosystem composition, and the stability of ecological communities. Impacts are evident across ecosystems—terrestrial, freshwater, and marine—

country/geographic maps. I can also help identify top authors or discover seminal papers. Please let me know how you'd like to proceed.

View 14 referenced documents ▾

[View all results in Web of Science Core Collection →](#) [View related preprints →](#)

Copy Text Download as PDF Export references as CSV

Kontrola dotazu

Ověřte navržené pojmy a rozsah hledání.

Srozumitelný postup

Prohlédněte si strategii za odpovědí.

Ověření podkladů

Otevřete záznamy a původní publikace.

Širší přehled literatury, jasný rozsah přístupu

Od června 2026 RA může do souhrnů zahrnout i záznamy mimo předplatné instituce.

Podklady pro souhrn

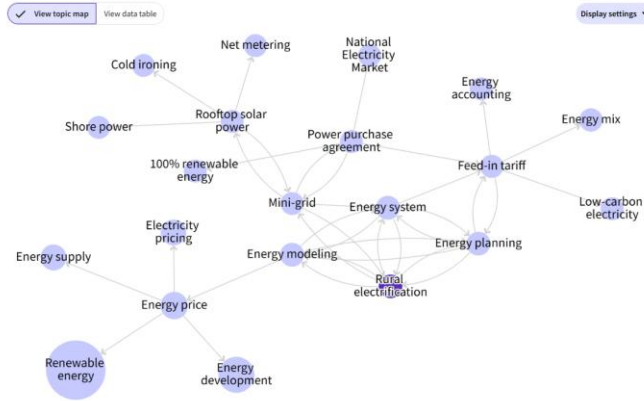
Relevantní metadata z celé Web of Science Core Collection mohou rozšířit kontext odpovědi.

Přístup k dokumentům

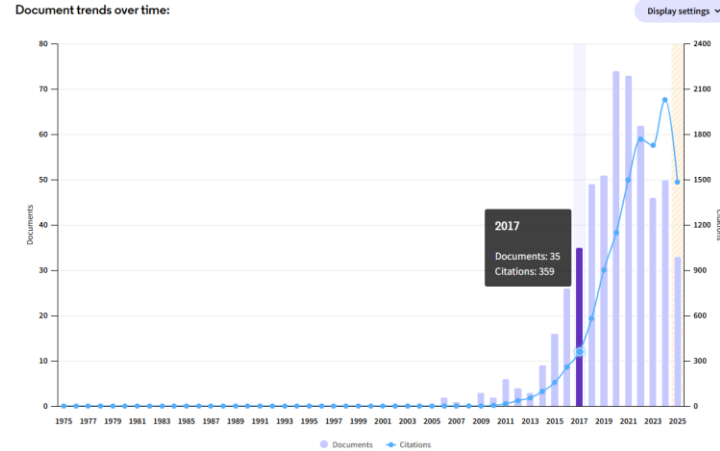
Záznamy mimo předplatné mají omezený přístup. Dostupnost plných textů se posuzuje samostatně.

Přínos: širší pohled na téma a informace o literatuře, kterou stojí za to dohledat.

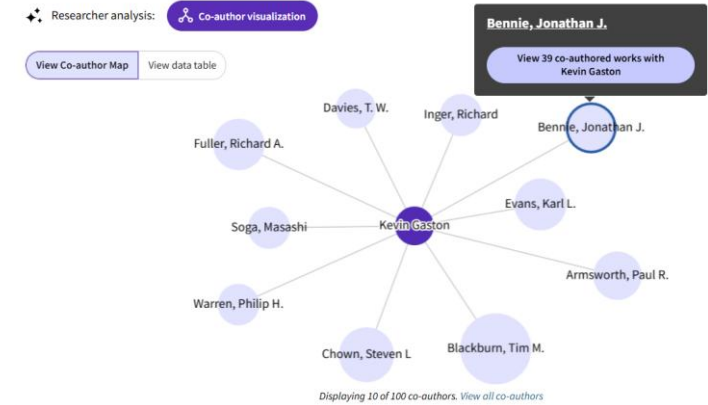
Souvislosti ve vašem výzkumném tématu



Mapa témat
Které souvislosti doplnit do
rešerše?



Vývoj publikací
Jak se mění pozornost
věnovaná tématu?



Autoři a vazby
Koho a které práce dále
prozkoumat?

Podpora literární řešerše

Rozsah přehledu a strategie hledání

Strukturovaná syntéza s referencemi

Témata a možné mezery k ověření

**Přínos: podklad pro vlastní kritické čtení
a formulaci výzkumné otázky.**



I have gathered the necessary data for 50 articles related to the economic impacts of microgrids for power in South America. I will now proceed to create a detailed literature review based on these articles. Please give me a moment to compile this information into a comprehensive review.

Literature Review on the Economic Impacts of Microgrids for Power in South America

Introduction

Microgrids are increasingly recognized as a viable solution for enhancing energy access and sustainability in South America. These systems, which integrate renewable energy sources with local energy storage and management, offer potential economic benefits such as cost savings, improved energy security, and economic development in off-grid and rural areas. This review synthesizes recent research on the economic impacts of microgrids in South America, highlighting key findings, common themes, gaps in research, and future research directions.

Common Themes/Key Findings

- **Cost-Effectiveness and Financial Models:** Many studies emphasize the cost-effectiveness of microgrids, particularly in remote areas where traditional grid extension is economically unfeasible. For instance, Aguilar-Jimenez et al. (2025) demonstrated the viability of photovoltaic microgrids with battery storage in rural Mexican communities, achieving significant cost savings compared to grid extension [Aguilar-Jimenez et al., 2025].
- **Integration with Renewable Energy:** The integration of renewable energy sources, such as solar and wind, into microgrids is frequently highlighted as a key factor in reducing operational costs and enhancing sustainability. Ahmad and Zhang (2021) explored the techno-economic feasibility of renewable integration in grid-connected and islanded microgrids, showing substantial cost reductions through optimized renewable energy configurations [Ahmad and Zhang, 2021].
- **Economic Sustainability and Policy Implications:** Studies like those by Arango-Manrique et al. (2021) focus on the role of policy in ensuring the economic sustainability of microgrids. They propose business models that integrate government incentives to attract private investment and support rural electrification efforts in Colombia [Arango-Manrique et al., 2021].
- **Market Dynamics and Energy Trading:** Research by Madler et al. (2023) highlights the economic benefits of peer-to-peer energy trading within microgrids, which can lower electricity costs and enhance economic resilience. This approach is particularly beneficial in decentralized energy markets [Madler et al., 2023].

Gaps in Research

- **Long-term Economic Impact Studies:** While many studies provide short-term economic analyses, there is a lack of longitudinal studies assessing the long-term economic impacts and sustainability of microgrids in South America.
- **Diverse Geographical Settings:** Research predominantly focuses on specific regions, leaving a gap in understanding the economic impacts across diverse geographical settings within South America.
- **Integration with National Grid Systems:** The economic implications of integrating microgrids with existing national grid systems remain underexplored, particularly in terms of regulatory challenges and economic benefits.
- **Comprehensive Policy Evaluations:** There is a need for comprehensive evaluations of existing policies and their economic impacts on microgrid development and deployment in the region.

Conclusion

Microgrids present a promising solution for addressing energy access and sustainability challenges in South America. The economic benefits, particularly when integrating renewable energy sources, are well-documented. However, further research is needed to understand long-term impacts, optimize integration strategies, and evaluate policy frameworks comprehensively.

Potential Hypotheses

1. Integration of microgrids with renewable energy sources significantly reduces operational costs compared to traditional energy systems.
2. Government incentives and supportive policies are crucial for the economic sustainability of microgrids in rural South American communities.
3. Peer-to-peer energy trading within microgrids enhances economic resilience and reduces electricity costs.
4. The economic benefits of microgrids are maximized when integrated with national grid systems, provided regulatory challenges are addressed.
5. Long-term economic impacts of microgrids vary significantly across different geographical and socio-economic contexts in South America.

Referenced Documents

- Aguilar-Jimenez, J. A., Islas-Pereda, S., & Perez de Alva, N. A. (2025). Technical and Economic Analysis of an Off-Grid Microgrid with Solar PV and Battery Storage: A Case Study for Rural Communities in Mexico. *Proceedings of the VII Ibero-American Congress of Smart Cities, ICSC-CITIES 2024*. [Aguilar-Jimenez et al., 2025]
- Ahmad, T., & Zhang, D. D. (2021). Renewable energy integration/techno-economic feasibility analysis, cost/benefit impact on islanded and grid-connected operations: A case study. *Renewable Energy*. [Ahmad and Zhang, 2021]
- Arango-Manrique, A., Lopez-Garcia, D., & Carvajal-Quintero, S. X. (2021). Business Model Proposal for Energy Transition towards Operational and Economic Sustainability for Rural Electrification: Colombian Case. *Sustainability*. [Arango-Manrique et al., 2021]
- Madler, J., Harding, S., & Weibelzahl, M. (2023). A multi-agent model of urban microgrids: Assessing the effects of energy-market shocks using real-world data. *Applied Energy*. [Madler et al., 2023]

Note: Some articles used for background information and context were not directly cited in this review but contributed to the comprehensive understanding of the topic.

Výběr vhodného časopisu

Zadání podle tématu nebo názvu a abstraktu

Doporučené časopisy k porovnání

Upřesnění publikačních preferencí

Přínos: užší výběr časopisů pro konzultaci s autory a knihovnou.

Před odesláním ověřte zaměření, poplatky a pokyny autorům.



SUSTAINABILITY

 OPEN ACCESS

MDPI

 SWITZERLAND

2071-1050 / 2071-1050

 Semi-monthly

JOURNAL CITATION REPORTS 2024

[View impact](#)

Journal Impact
Factor™

0.67

Journal Citation
Indicator™

Web of Science Core Collection Science Citation Index Expanded | Social Sciences Citation Index

Additional Indexes Current Contents Agriculture, Biology & Environmental Sciences | Current Contents Social And Behavioral Sciences | Essential Science Indicators

LAND USE POLICY

 OPEN ACCESS

ELSEVIER SCI LTD

 ENGLAND

0264-8377 / 1873-5754

 Bi-monthly

JOURNAL CITATION REPORTS 2024

[View impact](#)

Journal Impact
Factor™

1.41

Journal Citation
Indicator™

Web of Science Core Collection Social Sciences Citation Index
Additional Indexes Current Contents Social And Behavioral Sciences | Essential Science Indicators

WORLD DEVELOPMENT

 OPEN ACCESS

WATER RESOURCES RESEARCH

 OPEN ACCESS

AMER GEOPHYSICAL UNION

 UNITED STATES OF AMERICA

0043-1397 / 1944-7973

 Article-by-article

JOURNAL CITATION REPORTS 2024

[View impact](#)

Journal Impact
Factor™

1.2

Journal Citation
Indicator™

Web of Science Core Collection Science Citation Index Expanded

Additional Indexes Current Contents Agriculture, Biology & Environmental Sciences | Current Contents Engineering, Computing & Technology | Essential Science Indicators

Here are several journals closely aligned with your manuscript topic, including their profiles, impact factors, and subject categories.

Would you like to apply any preferences for your next search?

- Country or region
- Preferred language
- Open access journals only
- Filter by the latest Journal Impact Factor (only the most recent JCR year is supported for filtering)
- Web of Science category (e.g., Environmental Sciences, Development Studies, etc.)
- Publication frequency

Additionally:

- Would you like to see some documents published in any of these journals related to your research area?
- Would you like to see some of the authors who have published in these journals on similar topics?

Please let me know which options you would like to explore next.

Čtyři úkoly, na kterých má smysl RA vyzkoušet

Každý scénář končí konkrétním výstupem, který může uživatel posoudit.

Uživatel	Úkol	Užitečný výstup
Doktorand	Nové téma disertace	Pojmy, výchozí literatura a zpřesněná otázka
Výzkumný tým	Příprava projektu	Přehled směru výzkumu a otázky pro další ověření
Autor článku	Aktualizace rešerše	Nové relevantní práce a podklad k revizi přehledu
Autor a knihovna	Publikační strategie	Užší výběr časopisů a důvody jejich relevance

Deep Search a práce s vlastním PDF

V testování k 15. 10. 2026. Plánované uvedení: konec října 2026.

Deep Search

Co už o tématu víme a jak silné jsou důkazy?

Hlubší přehled literatury s analýzou důkazů a tvrzení jako podklad pro váš další výzkum.

Document Upload

Kde můžete svůj rukopis ještě posílit?

Náměty pro lepší argumentaci, hledání výzkumných mezer a kontrolu seznamu citací.

 mental health and wellbeing of university students 

 **Deep search**
27 steps completed

 01

 Clarifying document retrieval instructions

 02

 Evaluating document retrieval workflow

 03

 Clarifying document retrieval strategy

+ 24 more 

Mental Health and Well-Being of University Students**1. Introduction**

The retrieved evidence shows that research on university student mental health is dominated by studies of depression, anxiety, stress, psychological distress, and well-being, with especially strong emphasis on how academic and social pressures shape student functioning across higher education settings   .

Across the document set, the field converges on a broad picture in which distress is common, stress exposure is widespread, and protective resources such as resilience, social support, coping, and emotional skills are repeatedly linked with better outcomes  .

The literature also shows that student mental health is not explained by one factor alone, but by interacting academic, interpersonal, lifestyle, and institutional influences, which is why multi-level prevention and intervention models recur in reviews and empirical studies   .

Citation intelligence around the WHO World Mental Health International College Student stress paper indicates that this area is intellectually anchored by large cross-national student surveys and standard screening tools, with the paper cited predominantly for background and methodological framing rather than contradiction .

2. Themes**Theme 1: Burden of distress and its main determinants****Sub-theme 1.1: High prevalence of depression, anxiety, and stress**
Multiple studies and reviews indicate that substantial proportions of university students report depression, anxiety, and stress symptoms, with prevalence estimates often reaching clinically important levels across countries and disciplines     .

This burden appears especially visible in first-year students, health-related programs, and pandemic-era cohorts, suggesting that transition periods and demanding training contexts heighten vulnerability   .

Sub-theme 1.2: Stressors are central drivers of poorer outcomes
Perceived stress is one of the strongest recurring predictors of lower well-being and higher odds of mental disorder, with academic pressure, family pressure, financial strain, and role overload repeatedly implicated   .

Web of Science 2027 Roadmap

Focus areas	H2 2026	H1 2027	Future concepts
 User experience	PDF and HTML reader: Access and read full text directly within Web of Science workflows. Document Assistant: Easily review the main points of a paper with the help of AI. Relevance summaries: Screen papers faster to prioritize reading.	New Marked List functionality: Organize, store and format saved citations, powered by EndNote New AI-powered Search Assistant: Explore results conversationally with guided expansion or refinement.	• <i>Guided handoffs to the right search experience as you work</i> • <i>Citation consensus feature</i> • <i>Descriptions and insights into figures and tables from full text</i>
 Data, content and analytics	Preprint content expansion: Monitor a wider set of preprints for cutting-edge developments. Policy content expansion: See how research influences policy with millions of newly linked policy documents. Web of Science Graph API: Easily explore relationships in the data with one streamlined query.	Institutional Data Manager: Keep researcher profiles current by managing your organization's researchers, departments and publications. Improved profile curation: Access profiles that have been verified and enriched by AI agents. Awarded grant expansion: Connect published outcomes to grants from additional sources.	• <i>CRediT contributor roles</i> • <i>Patents and datasets on profiles</i> • <i>Additional preprint repositories, including SSRN</i> • <i>Research Commons expansion</i> • <i>Expanded open peer review data</i> • <i>Web of Science MCP</i>
 Research Assistant	Manuscript upload: Add context to discovery with your own documents. Deep Search: Collect and synthesize research drawn from the many ways papers connect, from citations and coauthors to shared topics.	Full-text grounded responses: Go beyond abstracts for richer answers traceable back to the source. Research Assistant everywhere: Get started with the assistant from any open Web of Science page Unified extended Research Assistant experience: Surface deeper funding and analytics support right where you're working.	• <i>EndNote and Web of Science Research Assistant integration</i> • <i>Personalized agentic AI-powered research coach</i>

Live demo



Think forward™

Research Assistant pro vaši instituci

Daniela Mertlová, Customer Success Consultant

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