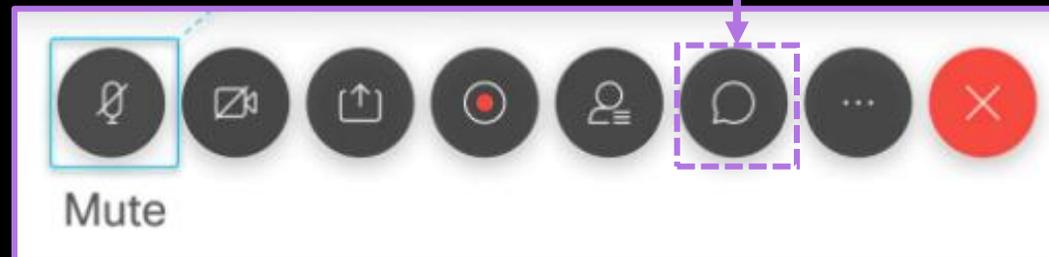


# Vă mulțumesc pentru participare

Vom începe în scurt timp

Microfonul dvs. a fost dezactivat pentru a reduce zgomotul de fond.

Întrebările pot fi trimise prin **Chat**.



**Web of Science**  
**Journal Citation Reports**  
**Essential Science Indicators**  
**InCites**

**[www.webofscience.com](http://www.webofscience.com)**  
**[www.jcr.clarivate.com](http://www.jcr.clarivate.com)**  
**[www.esi.clarivate.com](http://www.esi.clarivate.com)**  
**[www.incites.clarivate.com](http://www.incites.clarivate.com)**

**Portal de formare**  
**<https://clarivate.com/academia-government/training-support/>**

**Site web regional**  
**<https://clarivate.libguides.com/europe/romanian>**

## **Adriana Filip**

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# Web of Science Research Assistant

# Inteligența artificială în mediul academic

Bazat pe o multitudine de surse selectate cu grijă

Susținut de cadre riguroase de testare și evaluare a calității

Ghidat de principii academice și transparență

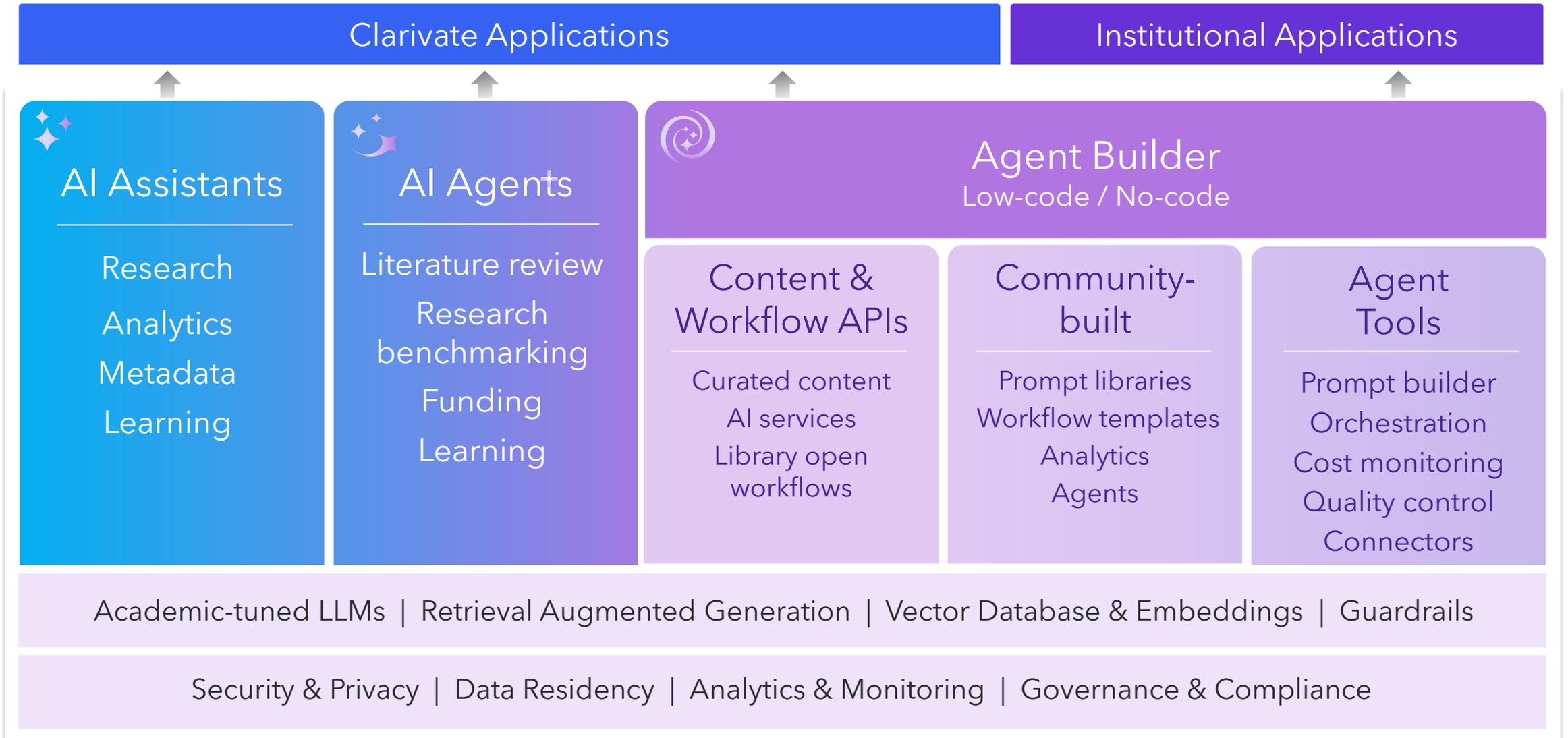


Integrat în fluxurile de lucru din cercetare, învățământ și bibliotecă

Conceput pentru a susține integritatea academică

Dezvoltat în strânsă colaborare cu comunitatea academică

# Platforma Clarivate Academic AI



# Platforma Clarivate Academic AI

## Infrastructura tehnologică



## + Practici și expertiză în domeniul IA



# Cum Web of Science utilizează tehnologia AI

Tehnologie:	Clasică	IA	IA agentică
	<b>Advanced Search</b>	<b>Smart Search</b>	<b>Research Assistant</b>
<b>Nivelul de competență</b>	De la intermediar la expert	Începător până la intermediar	Toate nivelurile
<b>Stilul de introducere a căutării</b>	Logică booleană, interogări cu câmpuri	Expresii, cuvinte cheie sau entități	Întrebări și sugestii pentru conversație
<b>Moduri de căutare</b>	Numai boolean	Boolean + Semantic	Limbaj natural + sarcini ghidate
<b>Utilizarea IA</b>	Fără AI; construirea manuală a interogărilor	Învățare automată, căutare semantică, recunoaștere de entități, corectare automată, suport multilingv	IA generativă, IA agentică
<b>Flexibilitatea interogării</b>	Scăzut. Necesită sintaxă precisă și cunoștințe de specialitate	Ridicat. Recunoaște subiectele, autorii, instituțiile; înțelege intenția	Foarte ridicat. Interpretează intenția, ghidează rafinarea interogării, oferă în mod proactiv interogări conexe
<b>Optimizat pentru</b>	Precizie, reproductibilitate, revizuri sistematice	Descoperire rapidă, găsirea conținutului asociat, localizarea autorilor și a articolelor	Synthèse littéraire, exploration d'un sujet inconnu, formulation d'hypothèses, analyse sommaire
<b>Multilingv</b>	Nu	Da (traducere interogare și rezumat)	Da (introducere și rezumate în mai multe limbi)
<b>Vizualizări</b>	Analyze Results	Co-citation maps + Analyze Results	Hărți tematice, grafice de tendințe, rețele de co-citare, rețele de co-autori, diagrame comparative
<b>Transparență</b>	Logică complet manuală, transparentă	Utilizatorul poate comuta între rezultate booleene și semantice	AI explică raționamentul și permite utilizatorilor să valideze pașii



# Web of Science Research Assistant

# Web of Science Research Assistant

## ✦ Accelerate Your Research with a Smart Assistant

Choose an agentic AI guide to help you advance your research goals

### 🔍 Topic Explorer

Explore topics, identify related subtopics, and visualize trends.

### 📄 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.

## Have a research question?

✦ Ask a research question

### Example questions:

How does climate change impact biodiversity?



Who are the most cited authors in genetics?



Which institutions published the most on covid in the last 12 months?



¿Cuáles son las consecuencias físicas de seguir una dieta vegana?



Can you find recent studies on super-resolution microscopy?



线粒体在癌症中扮演什么角色?



Un instrument bazat pe inteligență artificială care ajută utilizatorii să profite la maximum de interacțiunile lor cu cel mai de încredere index de citări din lume, Web of Science Core Collection.

- ✓ IA generativă și agentică
- ✓ Descoperire inteligentă
- ✓ Îndrumare bazată pe sarcini
- ✓ IA responsabilă

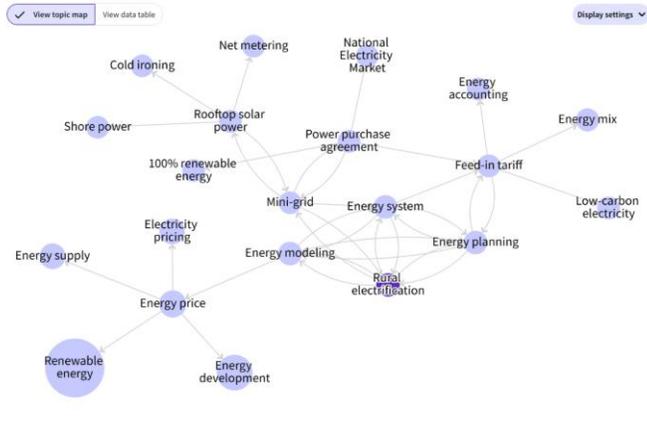
# Căutare mai rapidă și mai simplă

- ✓ Limbaj natural, căutare multilingvă
- ✓ Prezentări concise și referențiate în limba de căutare
- ✓ Răspunsuri verificabile pentru transparență
- ✓ Peste 120 de ani de cercetare în domeniu

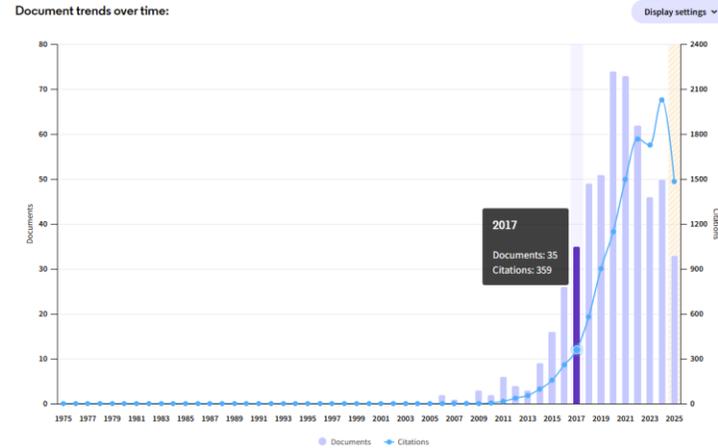
The screenshot shows the Clarivate Web of Science interface. On the left, there is a 'Chat history' sidebar with a 'New chat' button and a list of chat messages categorized by date (Today, August, July, June, Before June 2024, 2023). The main area displays a document preview for 'Water provisioning improvement through payment for ecosystem services'. The preview includes the title, authors (Sone, JS; Gesualdo, GC, (...); Oliveira, PTS), journal information (SCIENCE OF THE TOTAL ENVIRONMENT, Volume 655, Page 1197-1206), and an abstract. Below the abstract, there is a section for 'View 8 referenced documents' with a list of related papers.

The screenshot shows the 'Document details' page for the article 'Water provisioning improvement through payment for ecosystem services'. The page includes the title, a 'Highly Cited' badge, and buttons for 'View full record' and 'Save'. Below this, there are sections for 'Authors' (Sone, JS; Gesualdo, GC, (...); Oliveira, PTS), 'Journal' (SCIENCE OF THE TOTAL ENVIRONMENT, Volume 655, Page 1197-1206, DOI: 10.1016/j.scitotenv.2018.11.319), and 'Abstract'. The abstract text describes the study's objectives and findings. At the bottom, there is a 'Citation network' section showing 43 Citations, 44 Times Cited in All Databases, and 54 Cited References. A 'Learn more about this document:' section offers options to 'See related documents' (Co-citation map) and 'How this document has been mentioned' (Citing items by classification chart).

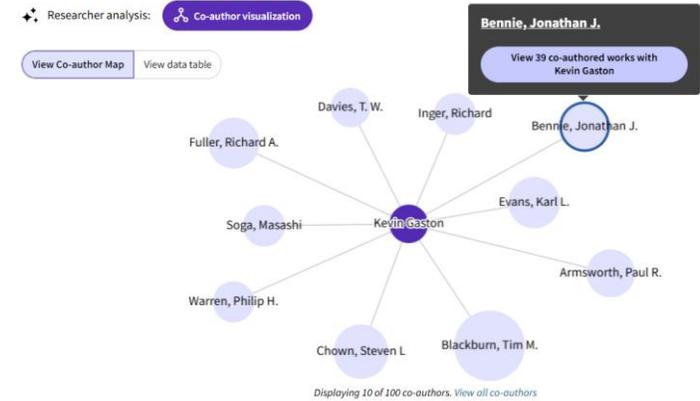
# Descoperirea conexiunilor relevante cu ajutorul vizualizărilor dinamice



Explorați subiecte conexe pentru a restrânge sau extinde căutarea



Identificați tendințele dintr-un domeniu pentru a vă ajuta să vă definiți direcția de cercetare



Generați rețele pentru a vizualiza conexiunile dintre persoane și documente

# Ghiduri AI agentice în Web of Science Research Assistant

Simplificarea etapelor cheie ale procesului de cercetare



## Topic Explorer

Analizați subiectele, aprofundați domeniile conexe și vizualizați tendințele



## Literature Review

Sintetizați cercetarea într-un raport structurat, adaptat nevoilor dvs.



## Find a Journal

Potrivii manuscrisul sau subiectul dvs. cu reviste relevante și de încredere



# Rezolvarea provocărilor legate de analiza literaturii de specialitate prin intermediul IA agentice

- **Afinați întrebarea** și elaborați o strategie de căutare eficientă
- **Sintezați literatura de specialitate** rapid și cu încredere
- Identificați **lacunele de cunoștințe**
- Identificați **tendențele emergente**
- **Construiți ipoteze** care să vă ajute să avansați în domeniul dvs. de activitate.



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.

# Clarificarea și precizarea întrebării cu ajutorul ghidului de analiză a literaturii

 Create a detailed literature review about microgrids for power in south america 

 To create a detailed literature review on microgrids for power in South America, let's first refine your query to ensure we capture all relevant aspects of the topic. Microgrids can encompass various subtopics such as renewable energy integration, technological advancements, economic impacts, policy frameworks, and social implications.

Could you please specify if you are interested in any particular subtopics or aspects of microgrids in South America? This will help in tailoring the search strategy to your interests.

 economic impacts 

 Great! We'll focus on the economic impacts of microgrids for power in South America.

Here's a proposed search strategy to ensure we cover all relevant aspects:

1. **Main Topic:** Microgrids
2. **Subtopics:**
  - Economic impacts
  - Cost-benefit analysis
  - Economic sustainability
  - Financial models
  - Economic evaluation
3. **Region Focus:** South America
4. **Synonyms and Related Terms:**
  - Decentralized energy
  - Distributed energy systems
  - Renewable energy economics
  - Energy transition economics

Here's how the search query might look:  
`(microgrids OR decentralized energy OR distributed energy systems) AND (economic impacts OR cost-benefit analysis OR economic sustainability OR financial models OR economic evaluation) AND (South America OR Latin America)`

Does this search strategy align with your expectations, or are there additional terms or topics you'd like to include?



## Agentul nostru AI ajută cu:

- Definirea căutării
- Specificarea parametrilor
- Formularea interogării
- Determinarea rezultatului dorit
- Executarea căutării

# Colectarea informațiilor esențiale din reviste cu ajutorul ghidului *Find a Journal*

- **Sincronizați** manuscrisele cu revistele relevante folosind analiza inteligentă a conținutului.
- **Explorați** opțiunile de reviste pe teme atunci când detaliile manuscrisului nu sunt disponibile.
- **Filtrați după criterii de publicare** pentru a viza revistele care îndeplinesc cerințe specifice.



## SUSTAINABILITY

 OPEN ACCESS

MDPI

 SWITZERLAND  
# 2071-1050 / 2071-1050  
 Semi-monthly

JOURNAL CITATION REPORTS 2024 [View impact](#)

 **0.67**  
Journal Impact Factor™ 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](#)

 **1.41**  
Journal Impact Factor™ 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](#)

 **1.2**  
Journal Impact Factor™ 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.

# Utilizarea unui instrument IA responsabil, dezvoltat împreună cu și pentru cercetători



Furnizează date  
selectate din surse alese  
editorial



Dezvoltat în colaborare  
cu comunitatea  
academică



Optimizat pentru  
cazuri de utilizare în  
cercetarea academică



Conform cu evoluția  
drepturilor de licențiere  
și utilizare în peisajul IA

# Web of Science Research Assistant

## 2025/26 roadmap

### Recent enhancements

#### **Search memory:**

Ask follow-up questions and continue the conversation

#### **Researcher profile summarization:**

Identify experts via concise summaries of a researcher's achievements

#### **Co-author maps:**

Explore author collaboration networks

#### **Literature Review 2.0:**

Leverage agentic AI to synthesize the literature

#### **Preprint discovery:**

Quickly link out to relevant preprint records

#### **Export options**

Download the full report as a PDF and export references as a CSV file

#### **Topic Explorer 2.0:**

*Leverage agentic AI and enhance your understanding of a topic*

#### **Find A Journal 2.0:**

*Leverage agentic AI to find best-fit journals for your paper*

#### **Search integrity:**

*Improve search relevancy and consistency*

#### **Agentic workflow UI enhancements:**

*Easily locate guided tasks to get started quickly*

### H2 2025

### H1 2026

#### **Multi-agent workflow:**

*Carry out end-to-end workflows across tools with an integrated agent*

#### **Query Builder Assistant:**

*Turn a query into a search strategy*

#### **Unified entry point for use cases**

*Enjoy a modern UI with a multi-input interface*

#### **Endnote integration**

*Export and import from EndNote*



# Informații suplimentare

# Un micro-curs pentru a dezvolta capacitatea IA

O serie de buletine informative pe o perioadă de 8 săptămâni - concepute de bibliotecari, pentru bibliotecari.

Conținut concis bazat pe cadrul de referință ACRL AI literacy, incluzând:

- Explicații introductive și lecturi selectate
- Studii de caz din lumea reală
- Interviuri cu experți în domeniu
- Întrebări și teste de discuție

**Înregistrare: [www.choice360.org/ai-literacy-essentials-for-academic-libraries](http://www.choice360.org/ai-literacy-essentials-for-academic-libraries)**





# Think forward™

**Adriana Filip**

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Adriana.Filip@clarivate.com

#### About Clarivate

Clarivate is the leading global information services provider. We connect people and organizations to intelligence they can trust to transform their perspective, their work and our world. Our subscription and technology-based solutions are coupled with deep domain expertise and cover the areas of Academia & Government, Life Sciences & Healthcare and Intellectual Property. For more information, please visit [clarivate.com](https://www.clarivate.com)

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