1. CORE
More than 10,000 data providers globally

Pro: State-of-the-art text and data mining technologies aid discoverability
Con: More user feedback is needed

2. ScienceOpen
Freely accessible discovery platform with over 50 million published articles

Pro: Advanced search function is highly detailed, including smart filters and topical collections
Con: More user feedback is needed

3. Directory of Open Access Journals
Almost 7 million articles from more than 17,000 journals

Pro: Newly launched open access journals are encouraged to apply
Con: More user feedback is needed

4. Education Resources Information Center
Primarily indexes journals, gray literature (such as technical reports, white papers, and government documents), and books

Pro: All sources of material on ERIC go through a formal review process prior to being indexed
Con: Links lead to other sites, where you may have to purchase the information

5. arXiv e-Print Archive
Physics, mathematics, computer science, quantitative finance, quantitative biology, statistics, electrical engineering and systems science, and economics

Pro: Open research function reduces academic inequality
Con: Not all articles are peer-reviewed

7. Public Library of Science
Publishes 7 open access and peer-reviewed journals covering science and medicine

Pro: Rigorous reporting, peer reviewing, and immediate availability without restrictions
Con: More user feedback is needed

6. Social Science Research Network
Free journal articles across more than 65 disciplines

Pro: Full-text content for more than 816,000 of the service's 1 million-plus papers
Con: More user feedback is needed

8. OpenDOAR
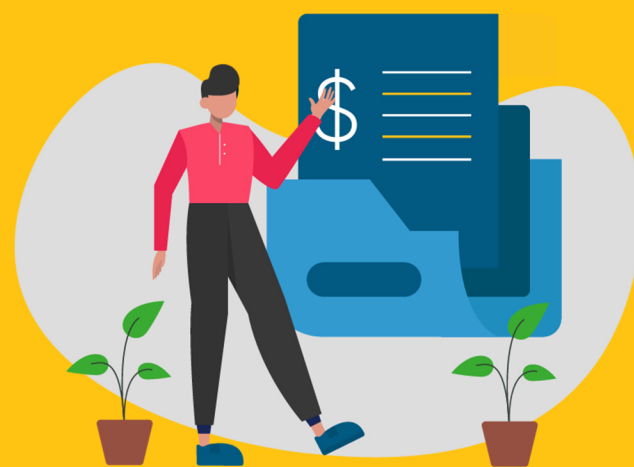Easily searchable educational database with thousands of registered repositories

Pro: Institutional, subject-based, and governmental repositories of open access material
Con: Limited to doctoral research theses that are not peer reviewed

9. Bielefeld Academic Search Engine
More than 240 million documents from more than 8,000 sources

Pro: Rigorous inclusion requirements for content providers regarding quality and relevance
Con: More user feedback is needed

10. Digital Library of the Commons Repository
Free and open access to thousands of full-text articles from around the world

Pro: Image database, keyword thesaurus, and links to relevant references
Con: Not all articles are peer reviewed

11. CIA World Factbook
Data and details about every country in the world

Pro: Information is in the public domain and may be used freely and without permission
Con: The resource is limited in terms of the source of its data

12. Paperity
First multidisciplinary aggregator of open access journals and papers covering all areas of study

Pro: Full-text search, RSS feeds, and aggregated metadata
Con: Dependent on donations

13. dblp Computer Science Bibliography
Online index of major computer science publications focused on peer-reviewed articles

Pro: 6 million free online articles in 1,785 journals
Con: Covers only computer science publications

14. EconBiz
Search full texts of economic and business studies across multiple international databases

Pro: Useful research skills section with numerous resources
Con: More user feedback is needed

15. BioMed Central
Open access research from more than 300 peer-reviewed journals

Pro: Committed to maintaining high standards through full and stringent peer review
Con: More user feedback is needed

16. JURN
Multidisciplinary search engine that helps users find free academic articles and books

Pro: Well over 5,000 English language journals covering many fields
Con: Works best using advanced search capabilities

17. Dryad
Covers all academic fields with all content free to download

Pro: Excellent mobile experience
Con: More user feedback is needed

18. EThOS
Free aggregated record of all doctoral theses awarded by over 120 higher education institutions in the United Kingdom

Pro: Every month, around 3,000 new records and an additional 2,000 full-text theses are added
Con: Limited to doctoral research theses

19. PubMed
More than 33 million citations for psychology and medical journal articles

Pro: Filters searches to return only free, full-text results
Con: Does not include full-text journal articles

20. Semantic Scholar
Education search engine that uses artificial intelligence

Pro: More than 50 direct partnerships with publishers
Con: More user feedback is needed

21. Zenodo
Covers all fields of research (primarily astronomy and astrophysics)

Pro: Uploads are made available online as soon as a researcher hits publish
Con: Limited number of resources

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