

Academic and Research Integrity in the Age of Artificial Intelligence:
Professional Development Workshop for International Graduate Students, Office of
Graduate Studies
July 16, 2026

Jay Bhatt
Engineering Librarian, Scholarly Connections
Drexel University Libraries



Archives & Collections



About the Drexel University Libraries

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The Drexel University Libraries is a learning enterprise dedicated to providing access to authoritative information regardless of format, to building learning environments, to making connections across disciplines to connect individuals with scholarship and to modeling an entrepreneurial organization.

Our Mission

The Drexel University Libraries connects the Drexel community with people, resources, and expertise to support experiential learning and impactful research.



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Research and Information seeking skills: Inspiring life-long learning

- Global focus on innovation, growth, and research in various disciplines.
- Newer educational and research initiatives with increasingly interdisciplinary focus.
- Students and researchers will need to keep current with the new knowledge world. Developing awareness of resources available and use them efficiently.
- With the rise of AI, students and researchers need to use it ethically and responsibly.
- Educating students about Research Integrity and keeping current with evolving information landscape is needed.



Academic and Research Integrity, Generative AI, and Scholarly Communication

- Use of AI in cheating in academics:
- The use of AI in academic cheating is a growing concern because AI tools can generate essays, solve problems, write code, and answer exam questions quickly.
- Issues with plagiarism. Students were caught in plagiarizing. Students used **someone else's work, ideas, or research their own.**
- In recent years, the scientific community has witnessed several instances of retracted research papers due to the evidence found of scientific misconduct after those papers were published.
- Using various examples of breaches in academic misconduct, or retracted papers from published literature, violations in scientific integrity and academic misconduct are explained.
- The presentation concludes by discussing best practices for maintaining academic and research integrity in the evolving landscape of AI-assisted learning and research.



AI is fascinating!

- While AI has many legitimate educational uses, using it dishonestly undermines learning and academic integrity.
 - How AI is used for cheating
 - Generating essays or assignments and submitting them as original work.
 - Solving homework or exam questions without understanding the material.
 - Writing computer programs or completing coding assignments.
 - Paraphrasing existing work to avoid plagiarism detection.
 - Providing answers during online tests or exams where outside assistance is prohibited.
- **Developing awareness of quality resources available through the libraries is critically important.**



Use AI wisely and responsibly

AI itself is not inherently a tool for cheating; its impact depends on how it is used. When used responsibly, AI can enhance learning and productivity. When used to misrepresent someone else's—or AI-generated—work as one's own in situations where independent work is required, it becomes a form of academic dishonesty with educational and ethical consequences.



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Guides, Tutorials & Workshops

Guides, Tutorials & Workshops

The Libraries provide expert research advice and information through subject and course guides, workshops, and self-guided tutorials.

Subject & Course Guides

Our [subject guides](#) and [course-specific guides](#) offer great starting places for beginning your research. They are created by our expert librarians and provide detailed information about resources important to different areas of research and disciplines, from engineering standards to consumer health reference tools to privacy tips.

Guides are also available for integration with Blackboard Learn course shells. Use these directions: [Embed a Drexel Libraries Library Guide into Your Canvas Course Shell \[PDF\]](#) to embed guides directly into your Blackboard course shell, allowing students to navigate to the guide without moving outside of Blackboard.

Workshops & Tutorials

We also offer workshops, online tutorials and training sessions annually, serving all Drexel Dragons, from first-year undergraduates to faculty researchers.

- Learn about [upcoming workshops](#)
- [View video recordings](#) from past events, workshops, and training sessions
- [Explore our online self-guided tutorials](#), which provide videos and lessons to help you navigate our resources and tools, including citation style manuals and search tools

[CHAT WITH A LIBRARIAN](#)

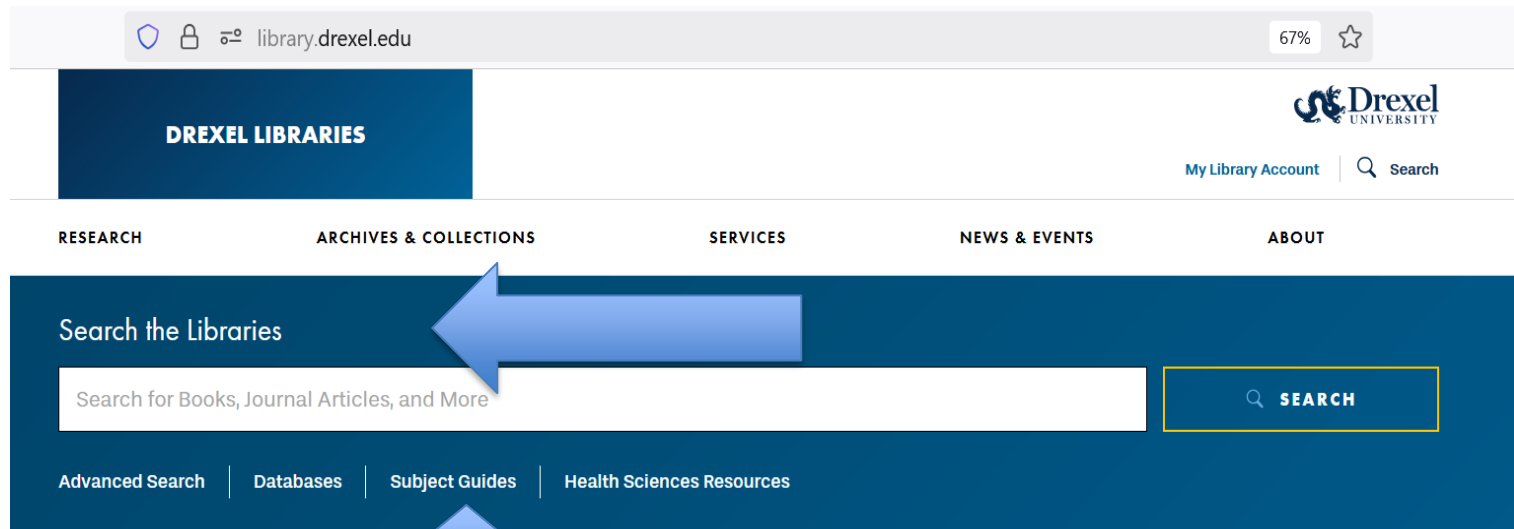


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How to find books and research papers?

Drexel University Libraries

<http://www.library.drexel.edu/>



Welcome to the Drexel Libraries

The Drexel University Libraries provide access to information, resources, and services that inspire curiosity, enable discovery, and empower all members of the University community to be information-literate, global citizens.

DREXEL LIBRARIES HOURS

PRINTING & COMPUTING



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Developing awareness: Library Guides

<http://libguides.library.drexel.edu/>

[Biomedical Engineering \(Library Guides are one of the ways\)](#)

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and press Submit to start chatting.

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Business and Economics resources

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Business & Economics

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82 SUBJECTS

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Feb 18, 2026 328

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Mar 9, 2026 150

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Computer and Data Science

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Computer and Data Science: Home

This resource guide includes useful computer science, computing, and informatics related resources to help faculty and students find needed information.

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Finding books

- Try a keyword search in [DragonSearch](#). Filter search results by 'Material Type-Book Chapter'.
 - [Algorithms and Computer Vision](#)
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Clinical and research resources for medicine, nursing and allied health

Resources

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[Tutorials](#)

[Clinical Information Resources](#)

[Mobile Access to Clinical Tools](#)

[Browzine](#)

[Selected Electronic Textbook and
Reference Sources](#)

[Exam Review Resources](#)

Related Subject Guides

- [Medicine & Biomedical Sciences
Guides](#)
- [Nursing & Health Professions Guides](#)

Research Resources

• [PubMed](#)

PubMed is a database created by the National Library of Medicine to facilitate searching the biomedical literature. The MEDLINE databases found within PubMed contain journals that have been reviewed by a panel of experts for quality. PubMed also contains PMC (PubMed Central), which contains publicly accessible literature that has not necessarily gone through the same review process. [Alternate Link \(SSO\)](#)

• [CINAHL with Full Text](#)

Literature on nursing, alternative/complementary medicine, consumer health and 17 allied health disciplines. Content includes full text access to more than 600 journals and citations for journal articles, book chapters, dissertations and selected conference proceedings.

• [Cochrane Library](#)

The Cochrane Library consists of a collection of regularly updated evidence-based health care databases. The collection is designed to provide information and evidence to support health care decision-making. It includes the Cochrane database of systematic reviews, and databases of clinical trials, and non-Cochrane systematic reviews.

[more...](#)

• [Embase](#)

Embase is a biomedical and pharmacological bibliographic database of published literature, indexing over 8,500 currently published journals from 1947 to the present, as well as in-press publications and conference abstracts. Embase is strong in coverage of European literature, and in the fields of drug research, pharmacology and pharmaceuticals, and includes coverage of over 1,800 biomedical titles not indexed in MEDLINE/PubMed. [Alternate Link \(SSO\)](#)

• [Healthcare Administration Database](#)



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Engineering Library Guides

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Engineering

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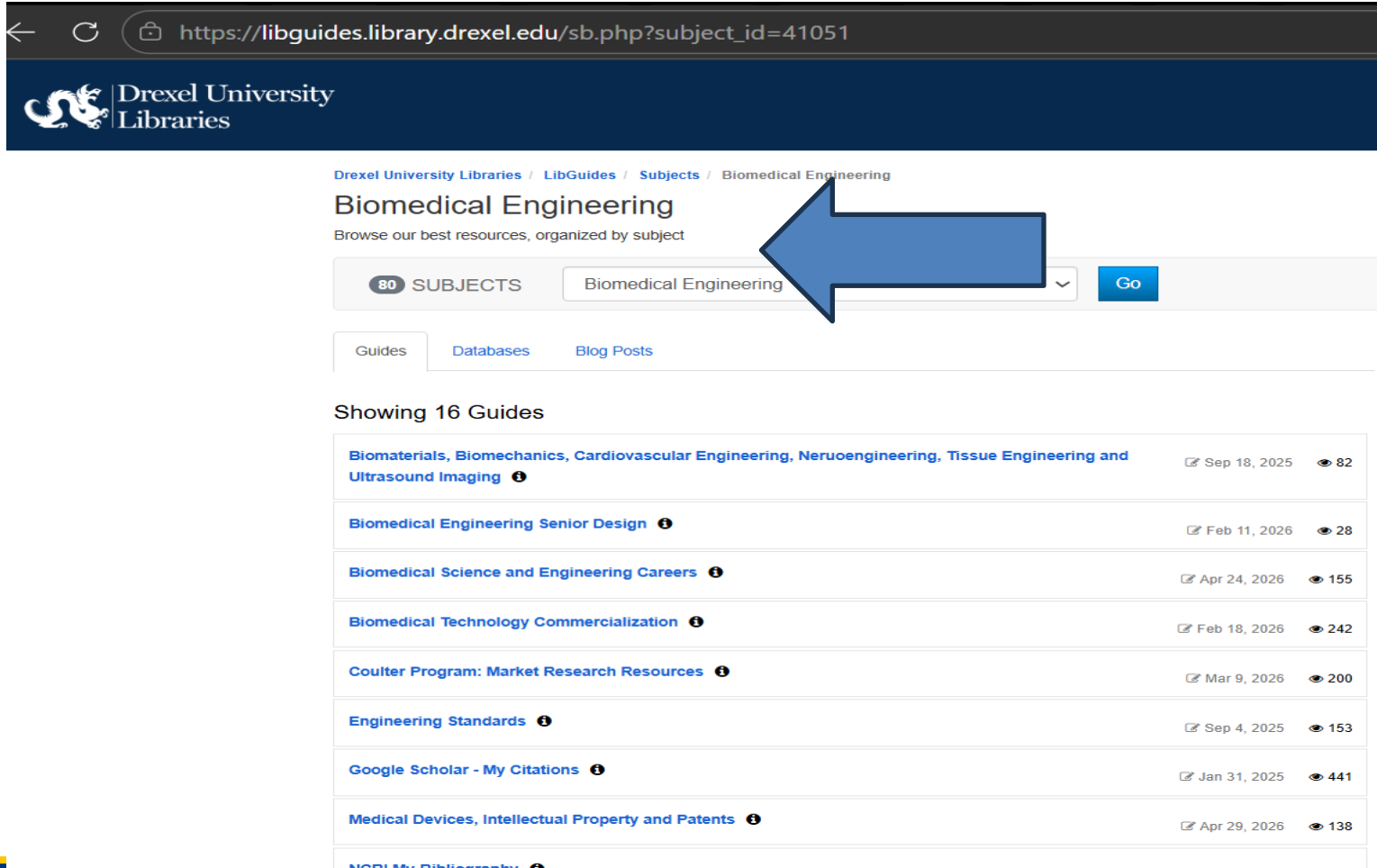
Aerospace Engineering ⓘ	📅 Jul 10, 2025	👁 200
Biomedical Engineering Senior Design ⓘ	📅 Feb 25, 2025	👁 46
Bridge Design Resources ⓘ	📅 Jul 28, 2022	👁 73
Chemical and Biological Engineering Research ⓘ	📅 Aug 18, 2025	👁 167
Civil, Architectural and Environmental Engineering Research; Construction Management Research ⓘ	📅 Aug 18, 2025	👁 149
Computer and Data Science ⓘ	📅 Aug 18, 2025	👁 229
Electrical and Computer Engineering ⓘ	📅 Aug 18, 2025	👁 116
Engineering ⓘ	📅 Aug 18, 2025	👁 245



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Biomedical Engineering Guides



← ↻ https://libguides.library.drexel.edu/sb.php?subject_id=41051

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Biomaterials, Biomechanics, Cardiovascular Engineering, Neruoengineering, Tissue Engineering and Ultrasound Imaging ⓘ	 Sep 18, 2025	 82
Biomedical Engineering Senior Design ⓘ	 Feb 11, 2026	 28
Biomedical Science and Engineering Careers ⓘ	 Apr 24, 2026	 155
Biomedical Technology Commercialization ⓘ	 Feb 18, 2026	 242
Coulter Program: Market Research Resources ⓘ	 Mar 9, 2026	 200
Engineering Standards ⓘ	 Sep 4, 2025	 153
Google Scholar - My Citations ⓘ	 Jan 31, 2025	 441
Medical Devices, Intellectual Property and Patents ⓘ	 Apr 29, 2026	 138
NCBI My Bibliography ⓘ		



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Biomaterials and Tissue Engineering



Everything ▾

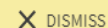


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Peer-reviewed Journals

Creation Date ▾

Subject Terms ^

Materials Science (1,190)

Science & Technology (1,068)

Technology (970)

Show More

Collection ▾



0 selected

PAGE 1

1-10 of 2,686 Results ▾



Preferred Disciplines



1



BOOK CHAPTER

Biomaterials and Tissue Engineering for Soft Tissue Reconstruction

Kum bar, Sangamesh G ; Laurencin, Cato ; Deng, Meng

Natural and Synthetic Biomedical Polymers, 2014, p.1-1

United States: Elsevier

Available Online >



2



BOOK CHAPTER

Ligaments, Biomaterials, and Tissue-Engineering Opportunities

Hollinger, Jeffrey O; Hollinger, Jeffrey O.

An Introduction to Biomaterials, 2012, p.585-602

United States: CRC Press

Available Online >



3



BOOK CHAPTER

Journal of Biomimetics, Biomaterials & Tissue Engineering Vol. 18

Nandyala, Sooraj Hussain

Journal of Biomimetics, Biomaterials and Tissue Engineering Vol. 18, 2013, Vol.18

Switzerland: Trans Tech Publications, Limited

Available Online >



4



BOOK CHAPTER

Chapter 14 - Biomaterials and Tissue Engineering for Soft Tissue Reconstruction

Wu, Iwen ; Elisseeff, Jennifer

Natural and Synthetic Biomedical Polymers, 2014, p.235-241

Elsevier Inc



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Electronic Books in STEM areas

Learn how to finding background information using our electronic books

- [Access Science](#)
- [Access Engineering](#)
- [AccessMedicine](#)
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- [Engineering Case Studies Online](#)
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The course taxonomy enables you to find content relevant to specific topics covered within common engineering courses



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Access Medicine



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Cases ▾

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Study Tools ▾

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Basic Science on AccessMedicine

Jawetz, Melnick, & Adelberg's Medical Microbiology, 29th Edition

Stefan Riedel, Jeffrey A. Hobden, Stephen A. Morse, Timothy A. Mietzner, Barbara Detrick, Barbara D. Alexander, Erin H. Graf, Nathan P. Wiederhold, Rojelio Mejia, Peter Hotez, Judy A. Sakanari

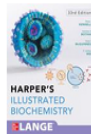
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Harper's Illustrated Biochemistry, 33rd Edition

Peter J. Kennelly, Kathleen M. Botham, Owen P. McGuinness, P. Anthony Weil

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Levinson's Review of Medical Microbiology & Immunology: A Guide to Clinical Infectious Diseases, 19th Edition

Peter Chin-Hong, Elizabeth A. Joyce, Manjiree Karandikar, Mehrdad Matloubian, Luis Alberto Rubio, Brian S. Schwartz, Warren Levinson

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[All Basic Science](#)

Clinical Nutrition on AccessMedicine

Essentials of Clinical Nutrition in Healthcare

Beth Frates, Marie-France Hivert, Christopher P. Duggan

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40 Hour Nutrition Medical School Competency Guide

Beth Frates, Marie-France Hivert, Christopher P. Duggan

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Instructors Resource Manual

Beth Frates, Marie-France Hivert, Christopher P. Duggan

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1-20 of 662 Search Results for

spine injury and treatment

Search **spine injury and treatment** across all McGraw Hill Medical sites >

Modify Search

Keyword ▾ spine injury and treatment

+ Add Term

Filter Results

FORMAT

- ☐ Book Chapter 509
- ☐ Case 65
- ☐ Tables 30
- ☐ Drugs 28
- ☐ Images 22
- ☐ Infographics 5
- ☐ Quick Reference Resources 2
- ☐ Flashcards 1



BOOK CHAPTER

Concussion and Other Traumatic Brain Injuries > SEVERE INJURY



Book: Harrison's Principles of Internal Medicine, 22nd Edition

...SEVERE INJURY...

[View in context](#)

[View All Harrison's Principles of Internal Medicine Results \(19\) >](#)



BOOK CHAPTER

Spinal Trauma



Book: Current Medical Diagnosis & Treatment 2026



BOOK CHAPTER

Disorders, Diseases, and Injuries of the Spine

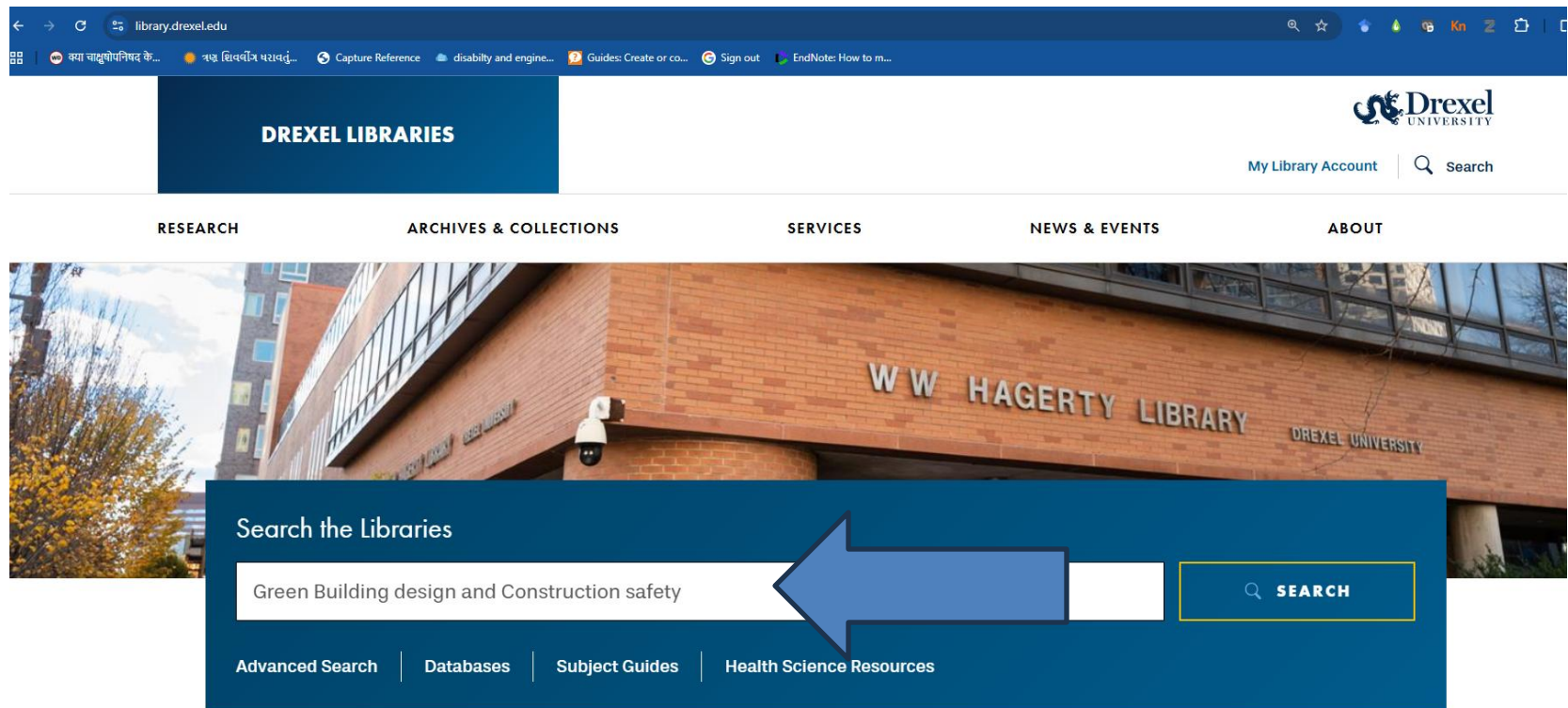


Book: Current Diagnosis & Treatment in Orthopedics, Sixth Edition



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Using DragonSearch- Green Building design and Construction safety (Finding Research paper using Dragon Search)



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Green Building design and Construction safety



Ask Anything

Advanced Search

RECOMMENDATIONS



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New Discovery Experience

Learn what's new

Site redesign March 25, 2026

All Filters

Available Online

Peer-Reviewed Journals

Sort by Relevance ▾

Refine Your Results



Add results beyond your
library's collection



Search in Full Text



Remember all filters



Show Only

☒ Peer-Reviewed Journals

☐ Available Online

☐ Open Access

1-10 of 109,854 Results Show 10 results ▾

Save and Export All Results ▾



1 ARTICLE | PEER REVIEWED



Impact of Green Building Design and Construction on Worker Safety and Health

By Rajendran, Sathyanarayanan; Gambatese, John A; Behm, Michael G

Part of Journal of **construction** engineering and management, 2009-10, Vol.135 (10), p.1058-1066

Sustainable, or "green," rating systems, such as the United States **Green Building** Council's Leadership in Energy and Environmental **Design** (LEED), are leading to changes in the way owners, designers, and contractors approach the **design, construction**, and operatio...
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“ ... This paper presents the findings of a research study of the impact of **green building design and construction** practices on **construction worker safety** and health... ”

Available Online

Cited References



Explore other databases to find scholarly papers

- [Access Medicine](#)
- [American Physiological Society Journals](#)
- [ClinicalKey](#)
- [Engineering Village](#)
- [IEEE/IET Electronic Library \(IEL\)](#)
- [PubMed](#)
- [ScienceDirect Journals](#)
- [Scopus](#)
- [SPIE Digital Library](#)
- [Web of Science](#)



Avoid Plagiarism and Maintain Research Integrity

- **Academic Integrity in teaching and learning.**
 - Do not Plagiarize. Copy and Paste
- **Research Integrity**
 - Use authentic and credible sources when conducting research.
 - Ensure that experiments, results, data, and publications are accurate and free from fabrication or falsification.
 - Use AI ethically in scholarly communication while avoiding plagiarism.
 - Verify the accuracy and credibility of citations and references before including them in your work.



Cite references used to avoid plagiarism

- **DO NOT PLAGIARIZE. DO NOT COPY.**
- Make sure to include references used. See Citation Style Manuals [Home – Citation Style Manuals - LibGuides at Drexel University Libraries](#) (APA, MLA, IEEE styles, etc).
- Citing AI use: [Home - Citing Generative A.I. - LibGuides at Drexel University Libraries](#)
- This guide collects guidance from major style guides on how to cite generative A.I. tools, with a focus on ChatGPT. The guidance can, as a rule, be generalized to other generative A.I. tools as well.



Academic Integrity Resources – Drexel University

[Academic Integrity Resources](#)

“Drexel University expects all members of its community to uphold the highest values of academic integrity. In upholding these values, the University is committed to investigating any allegation of violations of academic integrity against a student. Violations include, but are not limited to: plagiarism, cheating, fabrication, and academic misconduct.”



Research Misconduct

Drexel University

Research Misconduct means fabrication, falsification, plagiarism in proposing, performing, or reviewing research, or in reporting research results. Fabrication is making up data or results and recording or reporting them. Falsification is manipulating research materials, equipment, or processes, or changing or omitting data or results such that the research is not accurately represented in the research record. Plagiarism is the appropriation of another person's ideas, processes, results or words without giving appropriate credit. Research misconduct does not include honest error or differences in opinion. A finding of research misconduct requires that 1) there be a significant departure from accepted practices of the relevant research community, 2) the misconduct be committed intentionally, knowingly or recklessly, and 3) the allegation be proven by a preponderance of the evidence.



Generative AI and implications for teaching and research



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Brown professor links exam score plunge to AI cheating, July 9, 2026

 +4 • Curated by Copilot • 22h ago

Brown professor links exam score plunge to AI cheating

Sharp score collapse: After a take-home midterm averaged 96%, the in-person final plummeted to 48.6%, reinforcing the professor's suspicion of AI-assisted cheating.

Unusual patterns spotted: Answers mirrored ChatGPT's convoluted style and reasoning, prompting concerns about generative AI's role in eroding genuine learning.

Institutional response questioned: Brown's request for individual evidence against each student frustrated the professor, highlighting policy gaps in tackling AI-enabled misconduct.



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Drexel Internal Data

Brown professor links exam score plunge to AI cheating, July 9, 2026

Why the score drop matters for AI and academic integrity

The dramatic score gap, coupled with answer patterns matching ChatGPT's convoluted reasoning, underscores how generative AI can undermine traditional assessment. Serrano's findings echo broader research showing significant AI use among students, with some openly admitting to cheating. Experts warn that without robust safeguards like supervised exams, oral defences, and process evidence, take-home tasks risk measuring prompt skills rather than independent reasoning. [letsdatascience.com](#) + 2



We cannot afford to have a society in which a significant fraction of our best young minds think that cheating is okay. That leads to a declining society, to a failed society. We cannot choose to become idiots.

Roberto Serrano

The Next Web



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AI at Drexel

About Artificial Intelligence at Drexel University

Curiosity meets innovation. At Drexel, we're reimagining education for a world transformed by technology. Our mission? To prepare students not just for today's careers, but for the opportunities of tomorrow powered by artificial intelligence.

We started with a simple idea: **make AI less intimidating and more inspiring.** Why? Because the future isn't waiting and neither are we. From classrooms to research labs, we blend innovation with purpose to solve real-world challenges and unlock possibilities you never thought existed.

Our Approach

- **Bold and Curious:** We embrace big questions and chase even bigger answers.
- **Human-Centered Tech:** Ethical AI, data privacy, and information security are at the heart of everything we do to empower our community to use these tools responsibly.
- **Hands-On Learning:** By exploring our website, you'll find tools, guidance, and resources to get you started with AI as another tool in your toolbox for creativity and improving your day-to-day workflows.



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Using AI Responsibly at Drexel

Using AI Responsibly at Drexel

At Drexel University, the responsible use of artificial intelligence (AI) is grounded in a firm commitment to data protection, ethical conduct, and institutional compliance. As we adopt emerging technologies, we uphold the principles of privacy by design, information security by design, and responsible computing — a triad that enables innovation while mitigating risk.

AI tools should only be deployed in ways that align with University policies on privacy, academic integrity, and cybersecurity. Sensitive data — such as student records, research findings, and administrative information — must be safeguarded through secure access protocols, encryption, and careful oversight.

Please use the links below to access our collection of University policies, restrictions, and best practices on the use of Artificial Intelligence in the classroom and beyond.



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AI Guidance for Students: A guide to academic integrity and smart AI use for students during their university journey.

— Cite Your AI Use

Cite It Right

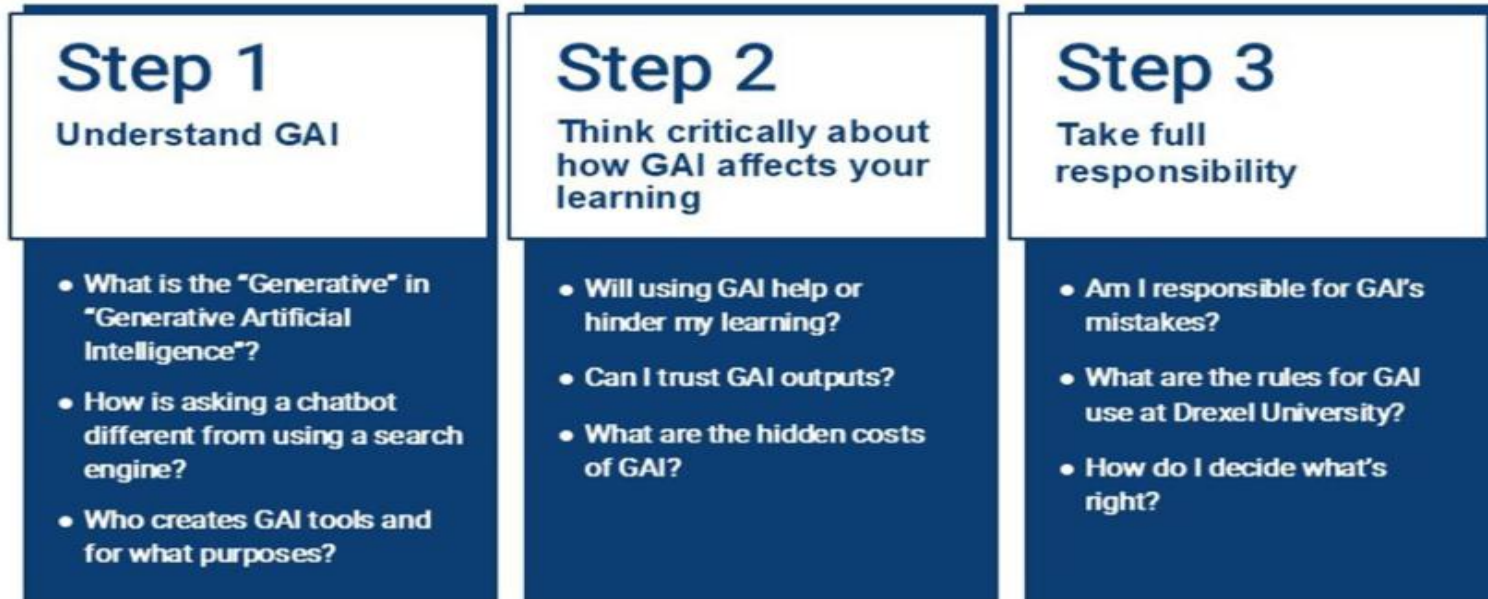
- If your instructor allows AI, you may need to cite how and where you used it.
- Follow their instructions.
- If no citation style is given, use the one common in your field.
- See Appendix B (Section VI–B of the Drexel policy [PO 103: Academic Integrity and Artificial Intelligence](#)) for help with citation formats.

— Own Your Work

You Are Still Responsible

- AI can help, but **you are accountable** for what you submit.
- AI might give false or biased info — **always double-check.**
- Avoid submitting anything inappropriate or offensive. Violations may be reported to **Student Conduct & Care.**
- Any misuse of AI tools may result in loss of access to AI services or other actions under University IT and acceptable-use policies.

Dragons' Guide to GAI : A three-step student guide to Generative Artificial Intelligence



Step One: Understand "GAI"

To become an informed user of Generative Artificial Intelligence (GAI) tools, you need to understand how they work in the first place. Do you understand how GAI models generate their outputs? Do you know when to use a chatbot to find information and when to use a traditional web or library search instead? Do you understand who creates and markets GAI tools and for what purposes? For answers, go to Step One.

GO TO STEP ONE: UNDERSTAND "GAI"

What is the "generative" in "Generative Artificial Intelligence"?

How is asking a chatbot different from using a traditional search engine like Google?

Many students use chatbots to find information quickly and conveniently, but research tools like search engines or [professional library research resources](#) have several important advantages over GAI chatbots. When deciding which tool to use, consider the following strengths and weaknesses of each approach in the following scenarios:

- **When you want to verify your sources:** Search engines like Google retrieve, rank, and link existing sources from the web. Users can assess each linked page by asking questions about its origins (Who posted this information?), reliability (Can I trust this author/organization?), and goals (Does this site have an agenda? Is it trying to sell me something?). Chatbot-generated answers do not offer this opportunity for critical assessment.
- **When you don't have the expertise to fact-check the answer:** Chatbots generate the most statistically probable answer to a query. This does not mean they are giving you the best (or even the correct) answer. Some GAI systems combine language generation with search capabilities by retrieving information from external sources and using it to augment prompts and outputs. This process improves the reliability of outputs, but the answers and citations (which can be fabricated)

Professional library research resources

Connect with Librarians

Drexel Librarians are available for virtual or in-person consultations to assist faculty, staff and students with their research. Examples of services offered include:

- Refining research topics
- Developing search strategies
- Finding literature, supporting evidence, data and statistics

Visit the [Services page](#) for information on additional Libraries resources and services, such as data management support, teaching and course support and interlibrary loan.

Email us at librarians@drexel.libanswers.com with questions or to schedule a research consultation. A member of our staff will respond within three business days. We encourage all members of the Drexel community to place requests for research support from the Libraries as early as they are aware of the need. We will manage requests on a first-come, first-served basis.

Find Resources

The Drexel Libraries provides access to print and online resources for use by Drexel students, faculty, and staff, including books, journals, databases, dissertations, videos, and other media.

- [DragonSearch](#): Use our online discovery system to search for books, journals, databases, videos, and other media to support your research goals.
- [Access online resources via publisher sites](#): Our new single sign-on authentication system also allows you to access library resources directly through a publisher or vendor site.

[Databases A-Z](#): Lists all Drexel Libraries databases. Search the list or filter by

[CHAT WITH A LIBRARIAN](#)

Research Misconduct-Drexel University

II. DEFINITIONS

The following definitions pertain to this policy.

Research Misconduct means fabrication, falsification, plagiarism in proposing, performing, or reviewing research, or in reporting research results. Fabrication is making up data or results and recording or reporting them. Falsification is manipulating research materials, equipment, or processes, or changing or omitting data or results such that the research is not accurately represented in the research record. Plagiarism is the appropriation of another person's ideas, processes, results or words without giving appropriate credit. Research misconduct does not include honest error or differences in opinion. A finding of research misconduct requires that 1) there be a significant departure from accepted practices of the relevant research community, 2) the misconduct be committed intentionally, knowingly or recklessly, and 3) the allegation be proven by a preponderance of the evidence.



Drexel University – Office of Research and Innovation – [Responsible Conduct of Research Toolkit](#)

- + Data Responsibilities
- + Intellectual Property
- + Mentor/Mentee Responsibilities
- Research Misconduct

- [Research Integrity: Case Study Videos](#)
- [The Lab – Avoiding Research Misconduct](#)
- [Online Tool for Learning Research Integrity and Image Processing](#)



WATCH THE RCR ROUNDTABLE ON RESEARCH MISCONDUCT

- + Ownership of Research

[ORI - The Office of Research Integrity](#) » [Resources](#) » [Case Studies](#) » [Video Case Studies](#) » [Research Integrity: Case Study](#)

Research Integrity: Case Study

Case Studies: Dr. Thompson's Lab

Follow the story of Dr. Thompson's laboratory. Experience the issues that arise from being in a small lab through the eyes of a new principal investigator (PI), a postdoctoral fellow, and a graduate student. These case study videos address topics such as mentoring relationships, authorship, publication, data integrity, and potential research misconduct.

Meet the Characters



Dr. Jeff Thompson is driven to secure his reputation as a successful researcher after recently leaving the lab of respected scientist. His relationship with his former PI has helped him immensely in the past, but he is eager to escape from under his shadow.



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Drexel University Office of Research and Innovation - Responsible Use of AI in Research – Guidance Document



DREXEL UNIVERSITY
Office of
**Research &
Innovation**

Responsible Use of AI in Research – Guidance Document

Document No.:	Version No.:	Effective Date:	Page:
ORI-007	001	06/05/2026	Page 2 of 11

1. Overview

Purpose

Drexel University is dedicated to advancing knowledge, learning, and research, and embraces the use of artificial intelligence (AI) tools and generative AI tools which are a subset of AI. These guidelines establish expectations for the responsible, ethical, and transparent use of AI tools in research conducted at Drexel University or by Drexel University research agents. Key considerations in the use of AI in research include safeguarding research integrity, human subject protections, inherent biases, data privacy, intellectual property, and compliance with regulatory and funder requirements.

Although the use of AI in research may not be detailed in existing frameworks, the ethical considerations in existing regulations, policies, and best practices address key issues relevant to the development and use of AI in research. These considerations, policies and practices must continue to be followed for mitigation of potential harms and inequities arising from the use and development of AI.



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Drexel University Office of Research and Innovation - Responsible Use of AI in Research – Guidance Document

3.3 Transparency

The use of AI tools must be disclosed at all stages of research when AI meaningfully contributes to research design, data collection, data analysis, interpretation, or dissemination of results. Consent for the use of AI must be obtained, as applicable, e.g., consent requirements for human subjects research.

3.4 Research Integrity

AI must not be used to fabricate, falsify, manipulate, or selectively omit data or results. Researchers are held to Drexel University's Research Integrity and Research Misconduct policies and procedures.

3.5 Ethical Use

Researchers must consider risks related to managing hallucinations, bias, fairness, explainability, reproducibility, and potential harm to individuals or communities. AI is trained on vast datasets from the internet, including internet forums and social media, which contain human biases related to race, gender, and culture. These biases are often reflected in the GAI output.

3.6 Privacy & Confidentiality

Researchers must protect confidential, sensitive, proprietary, and regulated data and information when using AI tools and software. Users are responsible for identifying how data are used by the AI tool provider and what uses are permitted by Drexel University's licensing agreements.



What is Hallucination in AI terminology?



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GENERATIVE AI ETHICS AND ETHICAL USE IN ACADEMIC CONTEXTS: AI HALLUCINATIONS & THE IMPERATIVE OF VERIFICATION

Search this Guide

Search

This is a guide designed to inform students how to use generative AI tools ethically to enhance their educational journey.

Home

What is Generative AI? (And Why Does Ethics Matter?)

Privacy, Security, & Your Data: Using AI Safely

Academic Integrity & AI: Understanding the Line

Citing & Documenting Generative AI Use

WHAT ARE AI HALLUCINATIONS?

Generative AI tools are incredibly sophisticated, often producing responses that sound convincing and authoritative. However, it's crucial to understand a significant limitation: **AI models can "hallucinate."** This means they can confidently generate information that is completely false, misleading, nonsensical, or even fabricate citations to non-existent sources.

What Are AI Hallucinations?

In the context of AI, a "hallucination" is when the model produces an output that contains **false or misleading information presented as fact**. It's a metaphorical term; the AI isn't experiencing a delusion like a human would. Instead, due to the way it's trained, it sometimes generates text that is statistically probable to appear in response to a prompt, even if that text has no basis in reality or is factually incorrect.

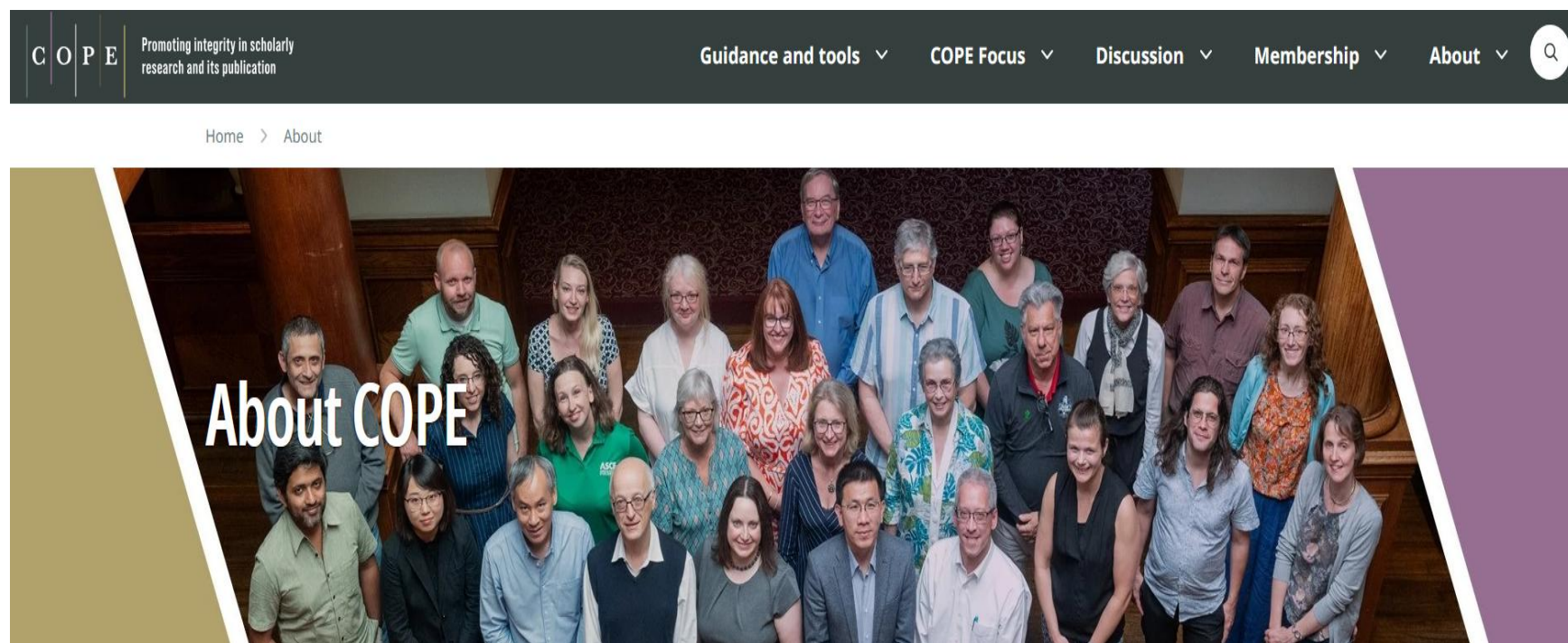


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COPE – Committee on Publication Ethics

COPE (Promoting integrity in scholarly research and its publication) brings together all those involved in scholarly research and its publication to strengthen the network of support, education and debate in publication ethics.



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COPE Council. COPE Retraction Guidelines:

<https://doi.org/10.24318/cope.2019.1.4>

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<https://publicationethics.org>

Key points

- The purpose of retraction is to correct the literature and ensure its integrity, not to punish the authors.
- Editors can decide to retract a publication if they no longer have confidence in the results and conclusions reported in the paper.
- Retraction might be warranted if there is clear evidence of major errors, irregularities in the data or images, or any form of misrepresentation (eg, fraud, identity theft or fictitious authorship) that compromise the reliability of the findings.
- Publications should be considered for retraction if the findings have been published elsewhere without proper attribution, permission, or justification, or material or data have been used without proper authorisation.
- Retractions might be necessary for unethical research practices, compromised peer review, or undisclosed conflicts of interest that could bias interpretation of the work or recommendations by peer reviewers.



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COPE guidelines related to the use of AI

Generative AI & Academic Integrity: COPE Guidelines

- **AI is not an author** — only humans can be accountable for scholarly work.
- **Disclose AI use** — be transparent about how AI assisted your work.
- **Verify all outputs** — check facts, citations, and references independently.
- **Human responsibility remains** — authors are accountable for all content submitted.
- **Protect privacy and confidentiality** — do not upload sensitive or unpublished information to public AI tools.

Key Message: *Acknowledge AI use, critically evaluate outputs, and maintain academic integrity.*

Reference (APA 7th ed.)

Committee on Publication Ethics. (2023). *COPE position statement: Authorship and AI tools*. <https://publicationethics.org/guidance/cope-position/authorship-and-ai-tools>

Additional Resource

Committee on Publication Ethics. (2024). *Artificial intelligence (AI) and publication ethics*.



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COPE-Authorship and AI Tools - readings

- The use of artificial intelligence (AI) tools such as ChatGPT or Large Language Models in research publications is expanding rapidly.
- COPE joins organizations, such as [WAME](#) and the [JAMA Network](#) among others, to state that AI tools cannot be listed as an author of a paper.
- Authors using AI tools must be transparent in disclosing in the Materials and Methods (or similar section) of the paper and how the AI tool was used, which tool was used.
- Source:
COPE Council. COPE position - Authorship and AI - English.
<https://doi.org/10.24318/cCVRZBms>, © 2024 Committee on Publication Ethics (CC BY-NC-ND 4.0) <https://publicationethics.org>



COPE-Authorship and AI Tools - readings

- [Artificial intelligence in decision making](#) COPE discussion document
- [Artificial Intelligence](#) COPE lightning talk
- [AI and fake papers](#), COPE Forum discussion
- [Artificial intelligence and authorship](#) COPE editorial
- [The challenge of AI chatbots for journal editors](#) guest editorial



What happens when there is misconduct? What Is a Retraction? How does it impact research integrity?

- It could result in a paper being retracted after it is published when misconduct is reported. A retraction is issued to correct the scientific record.
- It alerts readers to significant concerns about a publication.
- Research misconduct, such as fabrication, falsification, or plagiarism, can lead to retraction.
- Honest errors that substantially affect the findings may also warrant retraction.
- Retracted papers often remain publicly accessible but are clearly marked as retracted.



What is Retraction and why it happens?

- **Why Retraction happens?**
- After publication, an investigation prompted by a complaint uncovered evidence of issues such as research misconduct, plagiarism, hallucination, data fabrication, or data manipulation.
- These findings can result in the formal retraction of the published article.
- Retraction can have serious consequences, including loss of credibility, damage to professional reputation, and potential career impacts.
- For more information, see Enago Academy's article on the consequences of article retractions:
<https://www.enago.com/academy/article-retractions-affect-researchers/>



What Is a Retraction? How does it impact research integrity?

- A retraction is issued to correct the scientific record.
- It alerts readers to significant concerns about a publication.
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- Honest errors that substantially affect the findings may also warrant retraction.
- Retracted papers often remain publicly accessible but are clearly marked as retracted.



Retraction Watch items – some examples

Springer Nature to retract machine learning book following Retraction Watch coverage



A screenshot from June 26 shows the book had been accessed 3,782 times.

Springer Nature is retracting a book on machine learning that had multiple references to works that do not exist, Retraction Watch has learned.

The move comes two weeks after [we reported on the book's fake references.](#)

The link to the [information page](#) for the book, *Mastering Machine Learning: From Basics to Advanced*, now returns "Page not found," and the text is no longer listed under the book [series](#) on computer systems and networks.



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The link to the information page for the book, *Mastering Machine Learning: From Basics to Advanced*, now returns “Page not found,” and the text is no longer listed under the book series on computer systems and networks.



Search strategy to find retracted papers

Search

Search discovery platforms /
databases such as **Google
Scholar, ScienceDirect** and **Web
of Science**

Try

Try keywords such as

- "Article retracted"
- "This article has been retracted"
- "Sloppy Research"
- "Scientific fraud"
- "Notice of retraction"
- "Retracted"
- "Retracted article"
- "Retraction"
- "Retraction of article"

Source: Guide to Science Information Resources: What is a Retraction?, Florida Atlantic University Libraries



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Example: Google Scholar



"Retracted article"



ArticlesAbout 1,480 results (0.06 sec)

Any time

Since 2026

Since 2025

Since 2022

Custom range...

Sort by relevance

Sort by date

Any type

Review articles

☐ include patents

☒ include citations

☒ Create alert

RETRACTED ARTICLE: A supply chain disruption risk mitigation model to manage COVID-19 pandemic risk
KS Shahed, A Azeem, SM Ali, MA Moktadir - Environmental Science and ..., 2026 - Springer
... The online version of this article contains the full text of the **retracted article** as ... The online version of this article contains the full text of the **retracted article** as Supplementary Information. ...
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[HTML] Retracted article: Moderate protection from vaccination against influenza A (H3N2) subclade K in Beijing, China, September to December 2025
Y Shen, D Zhang, Z Feng, C Ma, W Shi... - ..., 2026 - [eurosurveillance.org](#)
During the early 2025/26 influenza season, influenza A (H3N2) subclade K rapidly predominated in Beijing, China. Using a test-negative design, we estimated influenza vaccine ...
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RETRACTED ARTICLE: Sustainable supply chain network design using products' life cycle in the aluminum industry
SM Pahlevan, SMS Hosseini, A Goli - Environmental science and pollution ..., 2026 - Springer
... The online version of this article contains the full text of the **retracted article** as ... The online version of this article contains the full text of the **retracted article** as Supplementary Information. ...
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RETRACTED ARTICLE: An integrated approach for a sustainable supplier selection based on Industry 4.0 concept
A Fakhraoui, KY Wong, S Boice - Environmental science and pollution ..., 2026 - Springer

[PDF] [vilniustech.lt](#)
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RETRACTED ARTICLE: Sustainable supply chain network design using products' life cycle in the aluminum industry

Sustainable Supply Chain Network Design | Published: 21 January 2021

Volume 33, page 4551 (2026) [Cite this article](#)

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The Publisher has retracted this article in agreement with the Editor-in-Chief. An investigation by the publisher found a number of articles, including this one, with a number of concerns, including but not limited to compromised peer review process, inappropriate or irrelevant references, containing nonstandard phrases or not being in scope of the journal. Based on the investigation's findings the publisher, in consultation with the Editor-in-Chief therefore no longer has confidence in the results and conclusions of this article. None of the authors have responded to correspondence regarding this retraction. The online version of this article contains the full text of the retracted article as Supplementary Information.



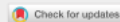
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RETRACTED ARTICLE: Nanomaterials for sustainable water splitting towards green hydrogen production

Krushna Chandra Mandal, Tanushree Das ✉ & Bikram Keshari Das ✉

Pages 804-829 | Received 06 Jul 2024, Accepted 04 Nov 2024, Published online: 02 Jan 2025

🗨 Cite this article 🔗 <https://doi.org/10.1080/15435075.2024.2428365>

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This article has been retracted

[Read the retraction statement](#) published online on 04 Jun 2025

Statement of Retraction

We, the Editors and Publisher of the *International Journal of Green Energy*, have retracted the following article:

Mandal, K. C., Das, T., & Das, B. K. (2025). Nanomaterials for sustainable water splitting towards green hydrogen production. *International Journal of Green Energy*, 22(4), 804-829. <https://doi.org/10.1080/15435075.2024.2428365>

Following publication, the Journal was contacted by a third party who raised concerns that a citation had been included inappropriately. Upon investigation by the journal, further references were found to be unrelated to the topic discussed in the article. Further investigation identified that Figure 11 had been created by undisclosed generative AI.

When contacted by the journal for an explanation, the authors were unable to address the concerns raised. As a result of these concerns, the editor-in-chief no longer has confidence in the validity of the findings in the article, and therefore we are retracting the article from the journal. The corresponding author listed in this publication has been informed.

We have been informed in our decision-making by our editorial policies and the COPE guidelines.

Related Research

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Statement of Retraction: Nanomaterials for sustainable water splitting towards green hydrogen production >

International Journal of Green Energy
Published online: 4 Jun 2025

Photocatalytic water-splitting for hydrogen production using TiO₂-based catalysts: Advances, current challenges, and future perspectives >

Obaid F. Aldosari
Catalysis Reviews
Published online: 7 Jan 2025

Grey, blue, and green hydrogen: A comprehensive review of production methods and prospects for zero-emission energy >

Priyanka Saha et al.
International Journal of Green Energy
Published online: 4 Aug 2023

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RETRACTED: Integrating Generative Artificial Intelligence Into Evidence Synthesis: Opportunities, Safeguards, and Methodological Refinements

Weihaio Cheng BEng ¹, Hangyu Zhu BEng ², Yuanyuan Lian BEng ^{2 3}

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<https://doi-org.ezproxy2.library.drexel.edu/10.1016/j.jval.2025.12.019> ↗

● Free access

This article has been retracted: please see Elsevier Policy on Article Withdrawal (<https://www-elsevier-com.ezproxy2.library.drexel.edu/about/policies/article-withdrawal> ↗).

This letter has been retracted at the request of the Editors-in-Chief.

The undisclosed use of artificial intelligence in the preparation of this work represents a clear violation of the journal's editorial policies and publishing ethics standards.

Apologies to the readers of the journal that this was not detected during the submission process.



Hallucination of references – references did not exist, but AI tools found them



Construction and Building Materials

Volume 494, 10 October 2025, 143396



RETRACTED: Stress-strain relationship of concrete subjected to delayed ettringite formation under various restraint conditions

Upon receipt of a concern regarding citations, a review of the 38 citations in the paper identified at least 9 “hallucinated papers” – papers that simply do not exist [citations 15–23]. An additional 7 citations appear to report real papers although authorship is reported incorrectly [citations 4, 12, 32–36]. These 16 improper citations appear in the submission versions of the paper and are not an artefact of the production process. Further concerns with other citations have been identified but cannot be definitively resolved since many citations are in Japanese. Only 11 citations have been verified and two of these contain errors in reporting authorship [11, 38].

The authors cooperated with the journal’s investigation and acknowledged in their response to editor queries that ChatGPT was used to assemble the citations resulting in the extensive hallucinations and errors. No declaration of the use of AI was made upon submission or publication of this paper as required by Elsevier policy and detailed in the Elsevier Guide for Authors.

Based on the unacknowledged use of AI in preparing this paper and the extent of corrections required throughout the text and to the citations, this paper is retracted.

In Academic Community, ChatGPT can help:



Brainstorming



Sentence
construction



Critical thinking



Accelerating the
process of
research



Writing, organizing
and editing
articles



Help to improve
their papers



Benefit authors
when used
responsibly



And more...



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Education is changing faster than ever before.

Some positive uses of AI

Welcome to *The Future of Education*. In this episode from the *Class Disrupted* series, co-hosts Michael Horn and Diane Tavenner talk with Siya Raj Purohit, Education GTM Leader at OpenAI. The conversation explores how generative AI tools are rapidly becoming embedded in the day-to-day workflow of students and educators, from personalized tutoring to campus-wide applications. They unpack the implications for classrooms, school systems, and the future of educational work.

The main topics of conversation...

- **ChatGPT as a personalized tutor:** Siya shares how she uses ChatGPT to plan projects, learn new skills, and refine her thinking—an experience she believes could be scaled across learning communities.
- **AI across the campus:** From “orientation GPTs” for new students to custom classroom assistants, universities are creating AI-powered infrastructure that supports both academic and student life.
- **Productivity vs. purpose:** While artificial intelligence can do a lot of the strategic and administrative work, Siya emphasizes the irreplaceable role of educators in mentoring, inspiring, and seeing potential in students.



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On the other hand, there are concerns about:

Early report

Ileal-lymphoid-nodular hyperplasia, non-specific colitis, and pervasive developmental disorder in children

A J Wakefield, S H Murch, A Anthony, J Linnell, D M Casson, M Malik, M Berelowitz, A P Dhillon, M A Thomson, P Harvey, A Valentino, S E Davies, J A Walker-Smith

Summary

Background We investigated a consecutive series of children with chronic enterocolitis and regressive developmental disorder.

Methods 12 children (mean age 6 years [range 3–10], 11 boys) were referred to a paediatric gastroenterology unit with a history of normal development followed by loss of acquired skills, including language, together with diarrhoea and abdominal pain. Children underwent gastroenterological, neurological, and developmental assessment and review of developmental records. Ileocolonoscopy and biopsy sampling, magnetic-resonance imaging (MRI), electroencephalography (EEG), and lumbar puncture were done under sedation. Barium follow-through radiography was done where possible. Biochemical, haematological, and immunological profiles were examined.

Findings Onset of behavioural symptoms was associated by the parents, with measles, mumps, and rubella vaccination in eight of the 12 children, with measles infection in one child, and otitis media in another. All 12 children had intestinal abnormalities ranging from lymphoid nodular hyperplasia to pseudopyloric ulceration. Histology showed patchy chronic inflammation in 11 children and reactive ileal lymphoid hyperplasia in seven, but no granulomas. Behavioural disorders included autism (nine), disintegrative psychosis (one), and possible postnatal or postvaccinal encephalopathy. There were no focal neurological abnormalities and EEG tests were normal. Abnormal laboratory results were significantly raised urinary methylmalonic acid compared with age-matched controls (p=0.03), low haemoglobin in four children, and low serum IgA in two children.

Interpretation To identify associated gastrointestinal disease and developmental regression in a group of previously normal children, which was generally associated in time with a possible environmental trigger.

Lancet 1998; **351**: 637–41
See Comment on page 637

Inflammatory Bowel Disease Study Group, University Departments of Medicine and Histopathology (A J Wakefield, S H Murch, A Anthony, J Linnell, M A Thomson, P Harvey, A Valentino, S E Davies, M Malik, M Berelowitz, A P Dhillon, J A Walker-Smith), **Child and Adolescent Psychiatry** (M Berelowitz), **Neurology** (P Harvey), and **Radiology** (A Valentino), **Royal Free Hospital and School of Medicine, London NW3 2QG, UK**

Correspondence to: Dr A J Wakefield

Introduction

We saw several children who, after a period of apparent normality, lost acquired skills, including communication. They all had gastrointestinal symptoms, including abdominal pain, diarrhoea, and vomiting and, in some cases, food intolerance. We describe the clinical findings, and gastrointestinal features, in these children.

Patients and methods

12 children, consecutively referred to the department of paediatric gastroenterology with a history of a pervasive developmental disorder with loss of acquired skills and autistal symptoms, including abdominal pain, bloating and food intolerance, were investigated. All children were admitted to the ward for assessment, accompanied by their parents.

Clinical investigations

We took histories, including details of immunisations and exposure to infectious diseases, and assessed the children. In 11 cases, the histories were obtained by the senior clinician (AW-S). Neurological and psychiatric assessments were done by consultant staff (PH, MB) with HMS-4 criteria.¹ Developmental records included a review of prospective developmental records from parents, health visitors, and general practitioners. Four children did not undergo psychiatric assessment in hospital; all had been assessed professionally elsewhere, so these assessments were used as the basis for their behavioural diagnosis.

After bowel preparation, ileocolonoscopy was performed by SHM or MAT under sedation with midazolam and pethidine. Paired frozen and formalin-fixed mucosal biopsy samples were taken from the terminal ileum; ascending, transverse, descending, and sigmoid colons, and from the rectum. The procedure was recorded by video or still images, and were compared with images of the previous seven consecutive paediatric colonoscopies (four normal colonoscopies and three on children with ulcerative colitis), in which the physician reported normal appearances in the terminal ileum. Barium follow-through radiography was possible in some cases.

Also under sedation, cerebral magnetic-resonance imaging (MRI), electroencephalography (EEG) including visual, brain stem auditory, and sensory evoked potentials (where compliance made these possible), and lumbar puncture were done.

Laboratory investigations

Thyroid function, serum long-chain fatty acids, and cerebrospinal-fluid lactate were measured to exclude known causes of childhood neurodegenerative disease. Urinary methylmalonic acid was measured in random urine samples from eight of the 12 children and 14 age-matched and sex-matched normal controls, by a modification of a technique described previously.² Chromatograms were scanned digitally on computer, to analyse the methylmalonic-acid zones from cases and controls. Urinary methylmalonic-acid concentrations in patients and controls were compared by a two-sample *t* test. Urinary creatinine was estimated by routine spectrophotometric assay.

Children were screened for antinuclear antibodies and boys were screened for fragile-X if this had not been done

Plagiarism

Erroneous information

Incorrect citations

Low quality

Ethical considerations

Misconduct

Retractions

Use ChatGPT as a primary source

And more...



Course assignment example

Note

Using ChatGPT Free version

Find

I need to find latest research for my course assignment on the impact of climate change on nature events such as hurricanes, cyclones and flooding in different countries. **Find scholarly research papers using electronic resources available through Drexel University Libraries.**

Repeat

Repeat the same search for ChatGPT Edu.



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I need to find latest research for my course assignment on the impact of climate change on nature events such as hurricanes, cyclones and flooding in different countries. Find scholarly research papers using electronic resources available through Drexel University Libraries.

For a Drexel University assignment, the best approach is to use the university's licensed library databases rather than a general web search. These databases provide peer-reviewed journal articles, systematic reviews, and high-quality research that your instructor is likely expecting.

Recommended Drexel Library electronic resources

Access these through the **Drexel University Libraries** website using your Drexel login:

- [Drexel University Libraries](#) ↗
- **Scopus** – excellent for multidisciplinary climate research and citation tracking.
- **Web of Science Core Collection** – ideal for finding highly cited and recent studies.
- **ScienceDirect (Elsevier)** – full-text journals in environmental science.
- **SpringerLink** – climate, hydrology, and disaster management research.
- **Wiley Online Library** – environmental and atmospheric sciences.
- **Nature Portfolio** and **Nature Climate Change**.
- **JSTOR** (background literature).
- **GeoRef** and **Environment Complete** (if available through Drexel).

Suggested search strategy



Libraries

Suggested search strategy

Use combinations of keywords with Boolean operators:

```
("climate change" OR "global warming")  
AND  
(hurricane* OR cyclone* OR typhoon* OR flood*)  
AND  
(impact OR attribution OR adaptation OR resilience)  
AND  
(country OR regional)
```



For country-specific studies, try:

- climate change AND hurricanes AND United States
- climate change AND cyclones AND India
- climate change AND flooding AND Bangladesh
- climate change AND typhoons AND Philippines
- climate change AND flooding AND Germany
- climate change AND extreme rainfall AND China

Limit results to:

- Peer-reviewed
- Journal articles
- Publication years: 2021–2026
- English



Recent scholarly papers to start with

Below are strong, recent sources that you should be able to access through Drexel's subscriptions.

Topic	Why it is useful
Accumulating Climate Change Influences on Extreme Coastal, Fluvial and Pluvial Flooding	Examines how climate change compounds multiple flooding mechanisms in urban environments. Available through Drexel Research Discovery.  researchdiscove...
A Comprehensive Review of Coastal Compound Flooding Literature (2024)	Reviews 271 studies on compound flooding, climate change, and coastal hazards worldwide.  arXiv
Climate Change and Flooding: Bibliometric Analysis to Identify Future Research (2026)	Summarizes global flood-related climate research trends, major countries, institutions, and future directions.  journals2.ums.ac...
Enhancing System Resilience to Climate Change through Artificial Intelligence: A Systematic Literature Review (2025)	Reviews 385 peer-reviewed studies on AI applications for climate adaptation, including hurricanes and floods.  Frontiers



High-impact journals

Look for papers from:

- *Nature Climate Change*
- *Journal of Hydrology*
- *Climate Risk Management*
- *Environmental Research Letters*
- *Science of the Total Environment*
- *Natural Hazards*
- *Weather and Climate Extremes*
- *Earth's Future*
- *Journal of Climate*

Tips for finding the latest research

In Scopus or Web of Science:

1. Search using the keyword combinations above.
2. Sort by **Newest**.
3. Filter to **2021–2026**.
4. Select **Review Articles** if you want comprehensive summaries, or **Articles** for original research.
5. Use the "Cited by" feature to identify influential papers.

This approach will help you locate recent, peer-reviewed research on how climate change is affecting hurricanes, cyclones, typhoons, and flooding across different countries, using electronic resources available through Drexel University Libraries.



     Sources

+ Ask anything



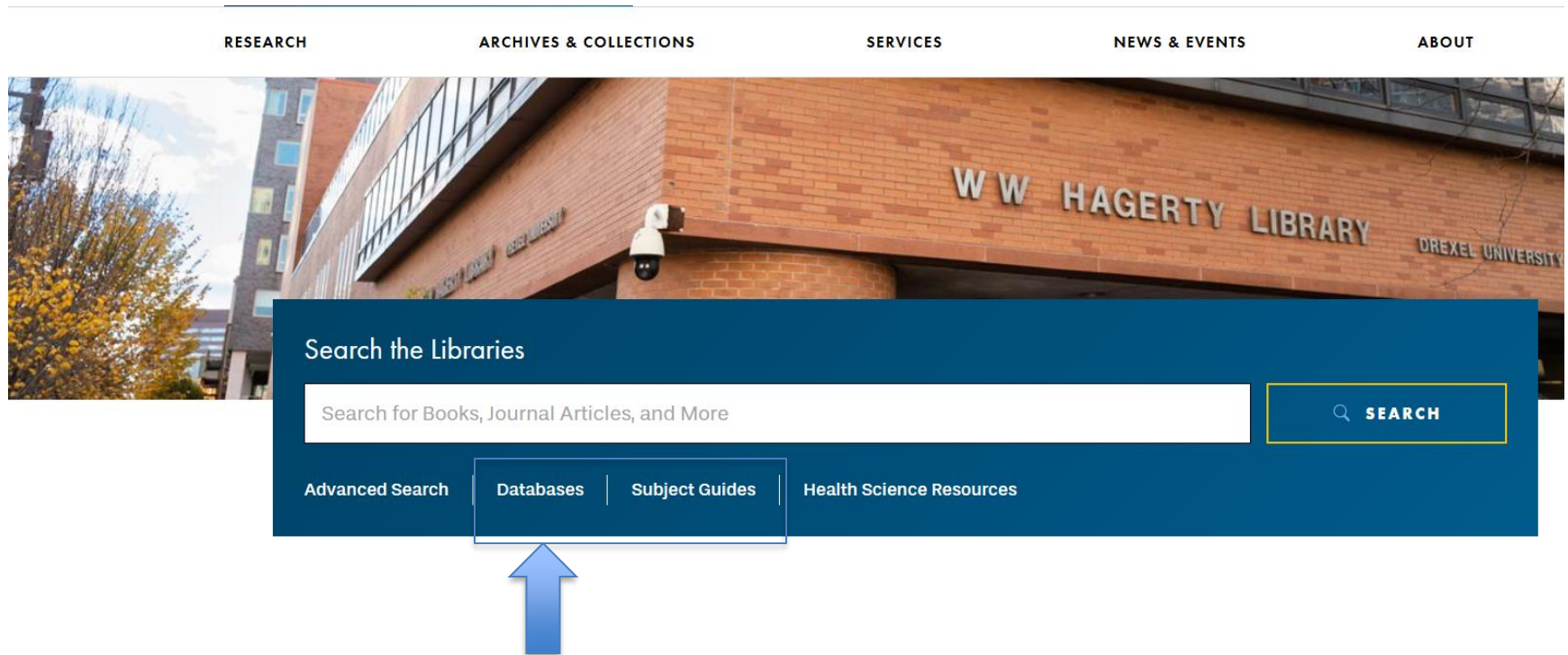
||| Voice



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Best Practices - Maintaining Research Integrity with AI

- **Use AI as a support tool, not a replacement** for critical thinking and original research.
- **Verify AI-generated information** using credible, peer-reviewed, and authoritative sources.
- **Cite AI tools appropriately** when their use contributes to research or writing.
- **Maintain transparency** by disclosing how AI was used in the research process.
- **Protect data privacy** by avoiding the input of confidential or sensitive information into AI systems.



Best Practices: Promoting Ethical and Responsible AI Use

- **Follow institutional and academic integrity policies** regarding AI usage.
- **Avoid plagiarism** by producing original analysis and properly attributing sources.
- **Recognize AI limitations**, including bias, inaccuracies, and hallucinations.
- **Develop AI literacy** to use AI tools responsibly and critically.
- **Commit to lifelong ethical learning** as AI technologies continue to evolve.



Keep Learning. Keep Applying. Succeed honestly and ethically.

- Important Takeaways
- AI can improve efficiency in research, but it should complement—not replace—human judgment.
- Researchers must validate AI-generated content, properly acknowledge AI assistance, and ensure ethical handling of sensitive information.
- Responsible AI use requires a commitment to honesty, transparency, and continuous learning.
- By combining ethical practices with critical evaluation, students and researchers can leverage AI's benefits while preserving the integrity and credibility of academic research.



Thank you!

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