

**71203002006**

# Entrepreneurship Development and IPR

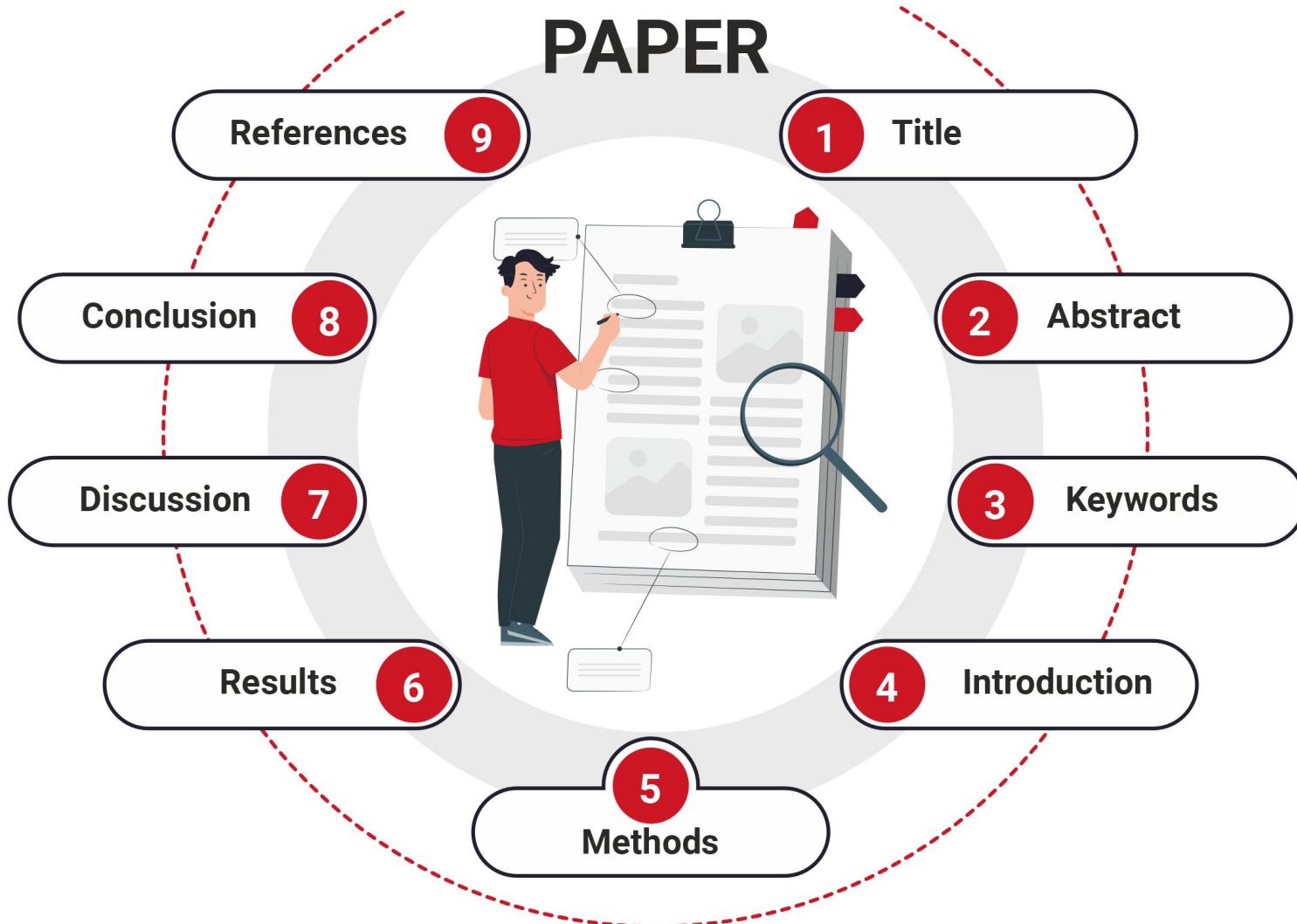
# Dr. Chintan Trivedi



# **Unit IV**

# **RESEARCH PUBLICATIONS & TECH DISSEMINATION**

# A RESEARCH PAPER





## Anatomy of a Journal Article

**Know** what types of information to expect in each section of an article.

### Abstract

- provides a summary of the article

### Introduction

- includes background information and a description of the author's purpose

### Materials & Methods

- details about how the study was performed with enough detail so that other scientists could repeat the study

### Results

- includes new observations, data and findings, figures

### Discussion

- a description of what the findings mean and their implications; address potential criticisms

References: Cite the authors, book, website etc.

## RESEARCH PUBLICATIONS

- A research publication is a formal document where researchers present the results of their **original study, experiments, analysis, or review** to the academic and professional community.
- It undergoes **peer review** (in most cases) to ensure **quality, novelty, originality, and reliability** before being accepted in a **journal, conference, or book chapter**.

# Types of Publications

- Journal Articles
- Conference Papers
- Books & Book Chapters
- Thesis & Dissertations
- Technical Reports / White Papers
- Case Studies
- Magazines/Trade Publications



## Journal Articles

- A **journal article** is a piece of scholarly writing published in an academic or scientific journal
  - Original Research Articles (Empirical Studies)
  - Review Articles
  - Short Communications / Brief Reports
  - Case Studies / Case Reports
  - Methodological / Technical Articles
  - Opinion / Commentary Articles

# Original Research Articles

- Original research articles include a **research question or hypothesis**.
- It usually contain most of the following sections: **methods, results, discussion, conclusion and references**.
- An original research article is written by the person or people that conducted the **experiment or observations**.
- Original research articles are considered **empirical or primary sources and present an original study**.



# Original Research Articles (Empirical Studies)

## Computer Science / Engineering

**Example:** “A Deep Learning Approach for Predicting Cybersecurity Threats”

**Journal:** IEEE Transactions on Neural Networks and Learning Systems

**Description:** Researchers proposed and tested a new neural network model using empirical datasets.

## Environmental Science

**Example:** “Impact of Urbanization on Local Air Quality: A Case Study of Delhi”

**Journal:** Environmental Research Letters

**Description:** Based on real-world air pollutant data collected across different city zones.

## Review Article

- A **review article** is a journal article that summarizes the **current state of understanding on a topic within a certain discipline**.
- A review article is generally considered a secondary source since it may analyze and discuss the method and conclusions in previously published studies.

### Review articles teach about:

- the main people working in a field
- recent major advances and discoveries
- **significant gaps in the research**
- current debates
- **suggestions of where research might go next (future scope)**

# Types of Review Articles

## Narrative Review:

- Summarizes existing research broadly without strict methodology.
- Example: “A Review of Machine Learning Applications in Healthcare.”

## Systematic Review:

- Follows a structured method to collect and analyze studies on a topic.
- Example: “Systematic Review on the Effectiveness of Online Learning in Higher Education.”

## Meta-Analysis:

- Combines statistical data from multiple studies to find overall trends.
- Example: “A Meta-Analysis of the Relationship Between Exercise and Mental Health.”



## Engineering / Computer Science

**Title:** “Recent Advances in Artificial Intelligence for Cybersecurity”

**Journal:** IEEE Access

**Description:** Summarizes research papers on AI-based intrusion detection, highlighting major algorithms and datasets used.

## Medical / Health Sciences

**Title:** “A Review of COVID-19 Vaccine Development Strategies”

**Journal:** The Lancet Reviews

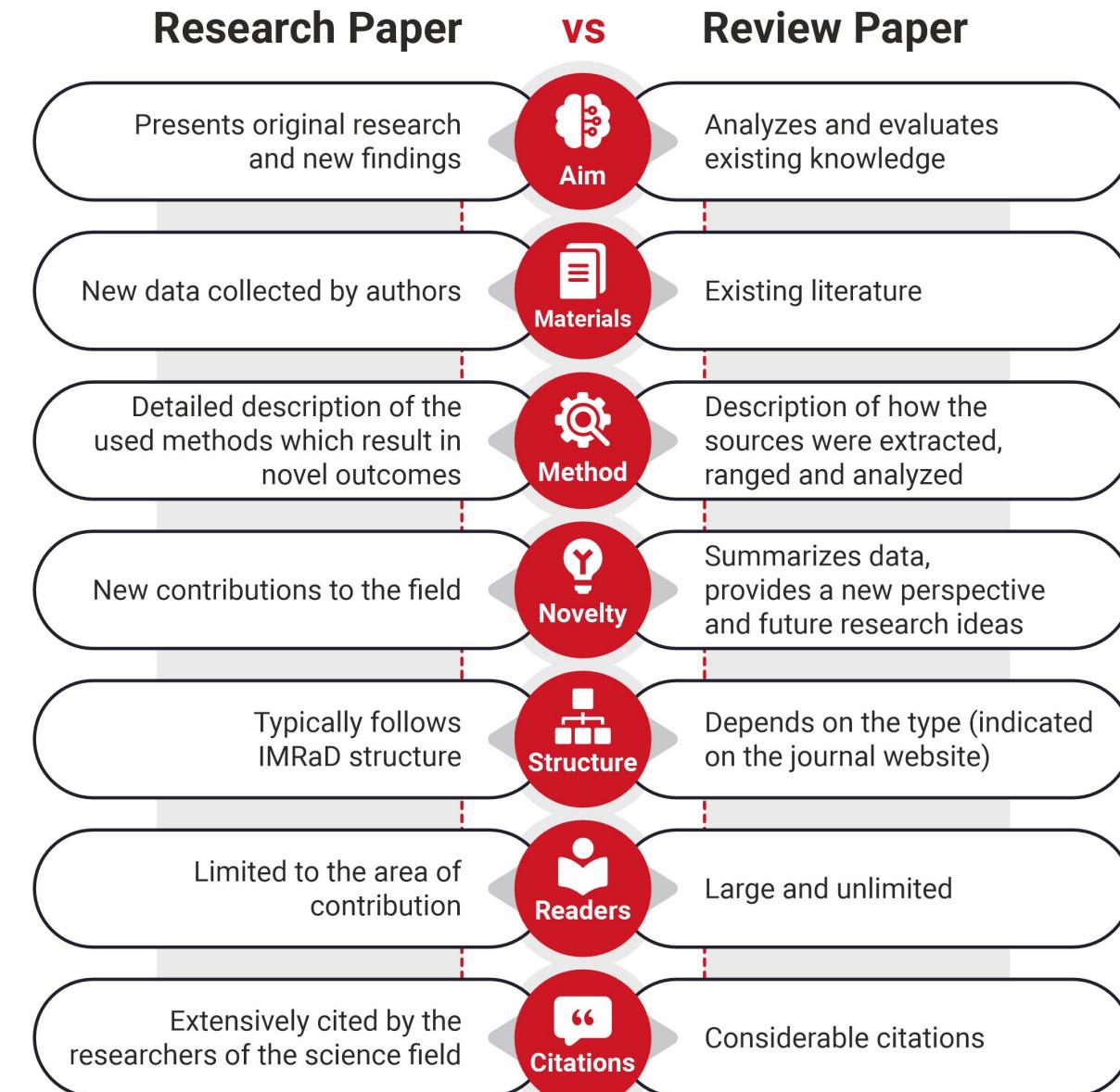
**Description:** Discusses progress, challenges, and clinical trial outcomes of different vaccine types.

## Environmental Science

**Title:** “A Comprehensive Review of Climate Change Impacts on Agriculture”

**Journal:** Environmental Research Letters

**Description:** Reviews dozens of studies about rising temperatures, rainfall variability, and crop yield patterns.



# Short Communications / Brief Reports

- **Short Communications** (also called **Brief Reports** or **Technical Notes**) are concise research papers that describe **new findings, preliminary results, or small-scale studies** that are **important but not large enough** to be full-length research articles.

## EXAMPLES

### Engineering / Computer Science

- **Title:** “A Brief Report on a Low-Cost IoT Sensor for Air Quality Monitoring”
- **Journal:** IEEE Sensors Letters
- **Description:** Introduces a small prototype sensor that measures air pollutants, providing initial field test data.

# Examples of Short Communications

## Medical / Health Sciences

- **Title:** “Brief Report: Early Detection of Dengue Virus Using a Portable Test Kit”
- **Journal:** Journal of Clinical Virology
- **Description:** Presents preliminary results of a new, rapid diagnostic device tested on a small group of patients.

## Environmental Science

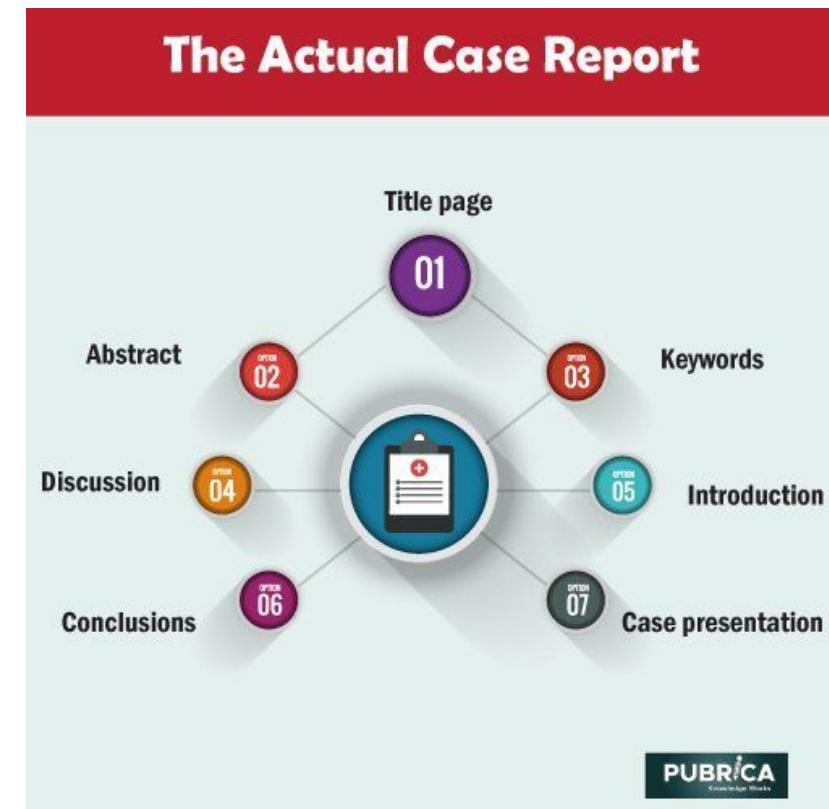
- **Title:** “Short Communication: Microplastic Contamination in River Water of Urban Areas”
- **Journal:** Environmental Monitoring and Assessment
- **Description:** Reports quick sampling and initial findings on microplastic presence in a local river.

# Case Studies / Case Reports

- **Case Studies** or **Case Reports** are detailed descriptions and analyses of a **single case** (or a small number of cases).
- They are used to highlight **unique, rare, or instructive examples** of real-life situations, experiments, or phenomena.

In research, case studies are commonly used in:

- **Business and management**
- Medicine and healthcare
- Education
- Social sciences
- Engineering and technology



- **Science & Technology**
  - Nature (Springer Nature)
  - Science (AAAS)
  - IEEE Transactions (Various IEEE journals)
  - Journal of Applied Physics
- **Engineering**
  - ASME Journal of Mechanical Engineering
  - IEEE Transactions on Robotics
  - International Journal of Mechanical Sciences
  - Journal of Manufacturing Processes
- **Medicine & Life Sciences**
  - The Lancet
  - New England Journal of Medicine (NEJM)
  - BMJ (British Medical Journal)
  - Journal of Biological Chemistry
- **Social Sciences & Humanities**
  - American Journal of Sociology
  - Harvard Business Review (though more practitioner-oriented)
  - Journal of Educational Research
  - Economic & Political Weekly (EPW)

<h1>Journal vs Conference Paper</h1>	
More Information Online <a href="http://WWW.DIFFERENCEBETWEEN.COM">WWW.DIFFERENCEBETWEEN.COM</a>	
DEFINITION	Journal
	Academic journals are periodical publications that relate to a certain academic discipline
PUBLICATION	Conference Paper
	Published in journals
	Presented in conferences and sometimes published in conference proceedings
PAGES	Journal
	Have more pages
	Conference Paper
	Have fewer pages
REVIEWING	Journal
	Require a firm review process
	Conference Paper
	Only require a general review process

# International Conferences Engineering and technology



**ACN** Crossref doi **Scopus** CPD

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International Conference on Robotics, Machine Learning and Artificial Intelligence (ICRMLAI)

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# Journal Indexing

- SCI – Science Citation Index
- SCIE – Science Citation Index Expanded
- Scopus
- Web of Science (WoS)
- UGC-CARE



The Ultimate  
Guide to Finding  
a Suitable  
Journal

DR. FARHAD ZULFIQAR



 **IEEE**  
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for Humanity*



<b>Indexing</b>	<b>Managed by</b>	<b>Coverage</b>	<b>Example Journals</b>	<b>Key Point</b>
<b>SCI</b>	Clarivate	Core Science	<i>Nature, TPAMI</i>	Elite journals
<b>SCIE</b>	Clarivate	Expanded Science	<i>Energy Conversion &amp; Management</i>	Wider coverage
<b>Scopus</b>	Elsevier	All disciplines	<i>LNCS, Computers &amp; Education</i>	Largest coverage
<b>Web of Science</b>	Clarivate	SCI, SCIE, SSCI, AHCI	<i>Nature Nanotech, JBR</i>	Global credibility
<b>UGC-CARE</b>	UGC (India)	Indian + Global (Scopus/WoS)	<i>Indian J. of Public Health</i>	For Indian academia

# Importance of Journal Publication



## Research ID

- Google Scholar Profile
- Research Gate
- Scopus Author ID
- ORCID (Open Researcher and Contributor ID)
- SciProfiles



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Materials Science

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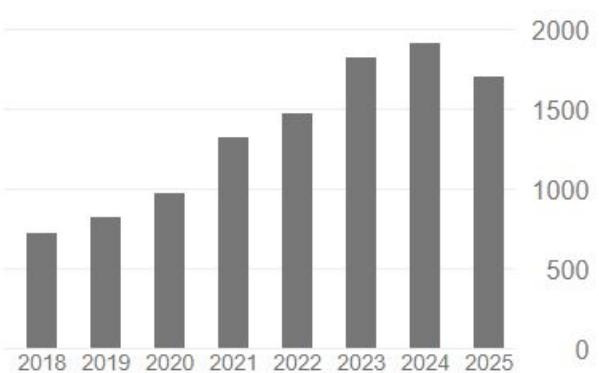
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h-index	53	41
i10-index	274	225



**TITLE** CITED BY YEAR

[BaTiO<sub>3</sub>-based piezoelectrics: Fundamentals, current status, and perspectives](#) 1441 2017

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M Rastogi, A Chauhan, R Vaish, A Kishan

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[Candle soot: Journey from a pollutant to a functional material](#) 140 2019

MR Mulay, A Chauhan, S Patel, V Balakrishnan, A Halder, R Vaish

Carbon 144, 684-712

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TITLE	CITED BY	YEAR
<a href="#">A review on biomass energy resources, potential, conversion and policy in India</a> A Kumar, N Kumar, P Baredar, A Shukla Renewable and Sustainable Energy Reviews 45, 530–539	644	2015
<a href="#">Natural Dyes for Dye Sensitized Solar Cell: A Review</a> G Richhariya, A Kumar, P Tekasakul, B Gupta Renewable & Sustainable Energy Reviews 69, 705-718	567	2017
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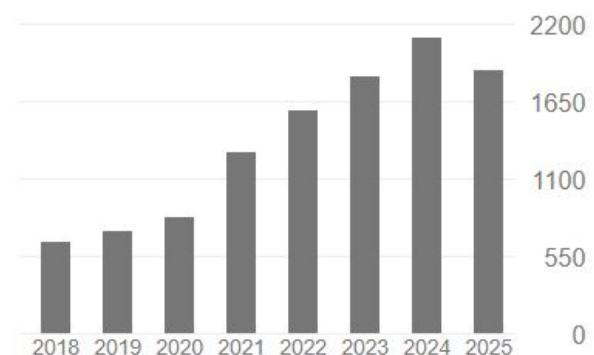
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25

## Importance of Citations

- A **citation** is a reference to the source of information or ideas that you use in your research work.
- It gives **credit to the original author** and helps readers **trace the source** of the information.

Citations are usually given in the form of:

- In-text references (e.g., Smith, 2022, kumar et al., kumar, J., [1])
- Footnotes or endnotes
- Reference lists or bibliographies at the end of the paper

# Importance of Citations

Reason	Explanation	Example
Give Credit	Acknowledge others' ideas	Quoting a theory from Newton
Support Ideas	Make arguments stronger	Citing research data
Help Readers	Trace sources easily	Linking to original paper
Avoid Plagiarism	Maintain honesty	Using proper referencing
Show Knowledge	Indicate wide reading	Referencing multiple studies

## h - index

- It is a number that represents both productivity and the impact of a particular researcher/scientist/scholar's output.
- It is a widely used research metric across the world including Web of Science and Google Scholar.
- **h-index = 'h' has at least 'h' papers that have been cited 'h' times**
- For Example: If a scholar has h-index of 12, it means that he has 12 papers that have been cited at least 12 times.

## i10- index

- The **i10-Index** is a **citation metric** created by **Google Scholar**.  
It measures the **number of publications (papers)** by an author that have been **cited at least 10 times** by others.
- It is a simple way to check the **impact and productivity** of a researcher.

### Formula for i10 index

- **i10-Index = Number of papers with 10 or more citations**
- Example: if an author has **8 papers** that have each been cited **at least 10 times**, then **i10-Index will be 8.**

## Find out the i10

Paper Title	Number of Citations
Paper A	50
Paper B	25
Paper C	11
Paper D	9
Paper E	5

i10 index = 3



## A revolution is sweeping Europe's farms: can it save agriculture?

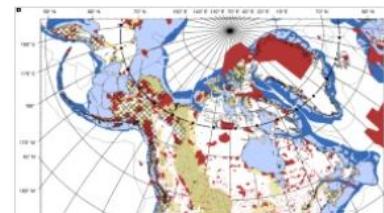
Momentum is building for regenerative agriculture, a set of approaches that could help farms to weather the changing climate and make them more profitable.



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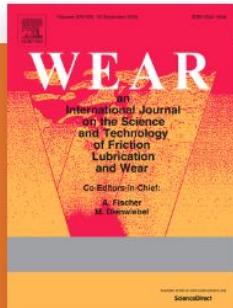
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Article

# Latent resistance mechanisms of steel truss bridges after critical failures

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<https://doi.org/10.1038/s41586-025-09300-8>

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Juan C. Reyes-Suárez<sup>1</sup>, Manuel Buitrago<sup>1</sup>, Brais Barros<sup>1</sup>, Safae Mammeri<sup>2</sup>, Nirvan Makoond<sup>1</sup>, Carlos Lázaro<sup>3</sup>, Belén Riveiro<sup>2</sup> & Jose M. Adam<sup>1</sup>✉

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Steel truss bridges are constructed by connecting many different types of bars (components) to form a load-bearing structural system. Several disastrous collapses of this type of bridge have occurred as a result of initial component failure(s) propagating to the rest of the structure<sup>1–3</sup>. Despite the prevalence and importance of these structures, it is still unclear why initial component failures propagate disproportionately in some bridges but barely affect functionality in others<sup>4–7</sup>. Here we uncover and characterize the fundamental secondary resistance mechanisms that allow steel truss bridges to withstand the initial failure of any main component. These mechanisms differ substantially from the primary resistance mechanisms considered

# Nature's Impact Factor

- As of **2024**, Nature has a **2-year Journal Impact Factor (JIF)** of **48.5**. [Nature+1](#)
- Its **5-year impact factor** is **55.0**. [Nature+1](#)
- Nature's immediacy index (which shows how quickly its articles are cited after publication) is **11.8** for 2024.

## Impact Factor

- It is a metric that reflects the yearly average number of citations to recent articles published in that journal.
- It is often used as a proxy for relative importance of a journal within its field.
- It must be noted that journals with higher impact factors are considered more important as compared to lower ones.

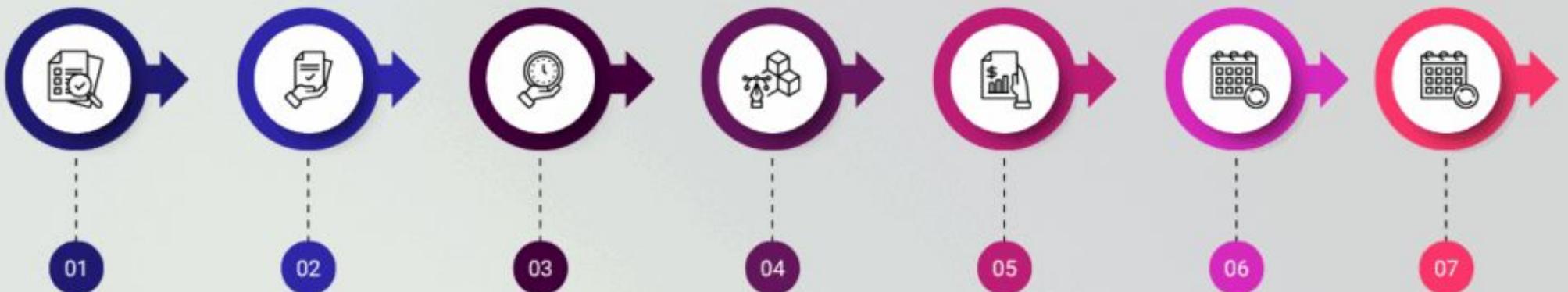
## Basic 2-Year Impact Factor Formula

$$\text{Impact Factor (year X)} = \frac{\text{Citations in year X to items published in years (X-1) and (X-2)}}{\text{Number of citable items published in years (X-1) and (X-2)}}$$

Example:

- Suppose we are calculating the **2024 Impact Factor** for a journal:
- Citations in **2024** to articles published in **2022 and 2023** = **10,000**
- Number of "citable items" (articles, reviews, etc.) published in **2022 and 2023** = **200**
- Impact Factor (2024)= $10,000/200 = 50.0$
- **A citation is a reference in one research work (like a journal article, book, or thesis) to another published source.**

# STEP-BY-STEP GUIDE FOR CHOOSING A JOURNAL



Clearly identify your study's objective and target audience before selecting a journal.

Ensure the journal covers your research area and aligns with your topic.

Look for indexing in reputable databases like Scopus, Web of Science, or UGC.

Choose journals with a credible impact factor or citation metrics relevant to your field.

Opt for journals with a transparent and rigorous peer-review process.

Research the publisher to ensure authenticity and avoid fake journals.

Confirm the article processing charges and ensure they fit your budget.

Journal	Main Focus Area(s)	Approx. Impact / Notes
<b>IEEE Transactions on Pattern Analysis and Machine Intelligence (TPAMI)</b>	Computer vision, pattern recognition, AI	approximately <b>20.8</b> for 2023
<b>ACM Computing Surveys</b>	Survey/tutorial articles across CS fields	Impact ~ 23.8 in 2023.
<b>Artificial Intelligence (journal)</b>	Broad AI topics (theory, applications)	IF ~ 14.4 recently.
<b>Information Fusion</b>	Multisource data fusion, signal processing, AI integration	IF ~ 15.5 recently
<b>IEEE Transactions on Neural Networks and Learning Systems</b>	Neural networks, deep learning, ML theory/methods	Strong reputation; high IF. ( <a href="#">Illinois Library Guides</a> )
<b>Knowledge-Based Systems</b>	AI with knowledge systems, expert systems, reasoning, etc.	One of Elsevier's high-IF journals in the AI area. ( <a href="#">Insights to Tech Info</a> )
<b>Pattern Recognition</b>	Pattern recognition, image analysis, computer vision	Good IF; often cited in CS/AI literature. ( <a href="#">Insights to Tech Info</a> )
<b>Neurocomputing</b>	Neural networks, machine learning, computational intelligence	IF ~ 5.5 in 2023. ( <a href="#">Wikipedia</a> )
<b>Advanced Intelligent Systems</b>	AI systems, robotics, automation, smart/sensing systems, etc.	IF ~ 7.4 (2022). ( <a href="#">Wikipedia</a> )
<b>AI (Journal "AI – Basel" etc.)</b>	Interdisciplinary applications of AI	Current IF ~ 5.0. ( <a href="#">MDPI</a> )

## PUBLISHER

- **Elsevier** – Science Direct Journals (e.g., Applied Energy, Materials Today)
- **Springer Nature** – Nature, Springer Journals
- **Wiley-Blackwell** – Advanced Materials, International Journal of Energy Research
- **Taylor & Francis** – International Journal of Production Research
- **IEEE Xplore** – IEEE Transactions series

# Peer Review

- **Peer review** is the process by which academic research papers are evaluated by independent experts ("peers") in the same field before being accepted for publication in a journal.
- It ensures that published research is **Accurate** (free from major errors), **Relevant** (contributes to the field), **Original** (not plagiarized), and **Reliable** (based on sound methods).

# Types of Peer Review

- **Single-blind** → Reviewers know the author's identity, but authors don't know the reviewers.
  - Common in many **medical and engineering journals**.
- **Double-blind** → Neither author nor reviewers know each other's identity.
  - Used in **social sciences, humanities, and some computer science journals**.
- **Open review** → Both parties know each other's identity, and sometimes reviews are published along with the paper.

## Peer Review Works Steps

**Step-1: Submission:** Author submits a manuscript to the journal.

**Step-2: Initial Screening :** Editor checks if the paper fits the journal scope.

**Step-3: Reviewer Assignment:** Experts in the subject are invited to review.

**Step-4: Review Process :** Reviewers evaluate methodology, originality, clarity, and contribution.

**Step-5: Feedback :** Reviewers suggest:

- Accept,
- Revise (minor/major), or
- Reject.

**Step-6: Decision :** Editor makes the final call based on reviews.

**Step-7: Publication:** Only after quality checks, the paper is published.

# Examples of Journals with Peer Review

## In Engineering & Computer Science

- **IEEE Transactions on Pattern Analysis and Machine Intelligence (TPAMI)** – double-blind peer review.
- **ACM Transactions on Computer Systems (TOCS)** – rigorous peer review, multiple rounds of revisions.
- **Information Fusion (Elsevier, Impact Factor ~ 20+)** – uses expert reviewers to ensure originality and scientific value.

## In General Science

- **Nature** (Springer Nature) – extremely strict review process, often multiple revisions.
- **Science** (AAAS) – high rejection rate, peer reviewers ensure groundbreaking originality.
- **The Lancet** (Medical Journal) – uses double-blind peer review for clinical research.

## Predatory Journals

- **Predatory Journals** are unethical or fake academic journals that exploit researchers by charging high publication fees without providing legitimate editorial and publishing services (such as peer review, quality control, and indexing).

### Features of Predatory Journals

- **Fake Peer Review** – Articles are published quickly without proper evaluation.
- **Misleading Claims** – Claiming false impact factors, indexing, or affiliations.
- **Excessive Publication Fees** – High charges without transparency.
- **Spam Emails** – Aggressively inviting researchers to submit papers or join editorial boards.
- **Low-Quality Content** – Publishing plagiarized, irrelevant, or poorly written research.
- **Fake Editorial Board** – Listing names of academics without consent.

## Predatory Journals List

- <https://www.predatoryjournals.org/the-list>
- [https://www.researchgate.net/publication/342313111\\_Predatory Publishers Journals List 2020-Version](https://www.researchgate.net/publication/342313111_Predatory_Publishers_Journals_List_2020-Version)

# Role of Research in Product Development (Tech-Transfer)

- Foundation for innovation
- Intellectual property (IP)
- Product and process development
- Risk mitigation

“Innovation is the soul of engineering,  
but protecting your ideas through IPR is what transforms creativity into lasting impact”!!



Thank You