

A Structured Framework for Writing Research Papers: A Beginner's Approach

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Abstract

Research writing is crucial to academics and professional growth in the different areas of science, engineering, and humanities. Many new researchers tend to have difficulties in developing ideas, choosing strong methods, and presenting clearly. In order to resolve these obstacles, we offer a guiding framework designed for the novice researcher to weave through the entire research process from first ideas to first publication. The key steps adopted in this framework are locating a problem, analysing the previous literature, designing methods, collecting data, and writing the paper. By fragmenting intricate academic processes into simpler phases, the modality makes scholars' works more coherent, clearer, and better in general. We also highlight common mistakes, and give advice on best practices. As such our guide will assist you in writing a high-quality paper which gets accepted by a peer-reviewed journal or an international conference.

Keywords

Research Writing, Academic Writing, Research Methodology, Beginners, Framework

1. Introduction

Research is important to generate new knowledge and innovation in every discipline including computer science, engineering, medicine, natural and social sciences. It helps in problem exploration, hypothesis testing and generating new insights. These contributions are theoretical and practical for the officer. In a technologically oriented and data-driven world, you must conduct and

disseminate your research. Having analytical skills is essential for students, scholars, and professionals. While good research pushes forward academic fields, it also helps us make better choices in industry, policy, and society.

The importance of research writing is well-known, but it is not an easy job at all and is often hard, especially for inexperienced writers. Early-career researchers often encounter setbacks in various stages. Students may find it difficult to identify a good research problem, conduct thorough literature reviews, choose the right methods, and/or present coherently. Along the way, academic writing conventions (referencing, logical ordering, and consistency) can challenge many beginners. The lack of universal guidance adds more of a challenge, especially for certain fields.

Many a beginner will fail because they don't have a path that binds all parts of research to one another. Research can feel discordant when it happens. This often results in ambiguous methodologies, poorly constructed arguments, and ultimately compounds the difficulty of getting published in good journals or putting forth papers at conferences. Additionally, research publications are becoming more competitive. Being engaged is not just about original ideas – clarity and thoroughness, in addition to accepted standards. In the absence of guidance beginners will fail to do these things. Thus, what can we do?

We require a straightforward and formal step-by-step procedure for research writing to simplify the task. It's useful to think about a map: a

good framework takes you from your first thought to writing it, then revising, and publishing. It needs to be flexible enough to accommodate different research methods qualitative, quantitative, and mixed-methods while also providing clear and practical steps that beginners may follow.

The goal of our paper is to fill this gap. The present framework is an organized proposal for writing research paper especially for beginners. The process of research is divided into steps by a framework. This comprises refining your concept, outlining the issue, reviewing literature, designing methods, collecting, and analyzing data as well as writing and publishing. Organizing these steps into a clear structure helps your research progresses smoothly, stays consistent, and is complete.

Our work delivers four major contributions. To start, we show a general framework that works across fields. Many researchers find it a useful tool for their work. Additionally, we are providing a step-by-step guide that simplifies complex research so that beginners feel confident and capable. Also, we show you some common new researcher mistakes and offer practical ways to avoid them. We conclude with advice on journal selection, peer review, and revision throughout the publication process. It equips beginners to effectively communicate their research.

In general, our study intends to assist researchers. We provide them a systematic way to write research which improves their research work, make it clear and impactful.

- Check out a glimpse of what we offer.
- A framework applicable across all different areas.
- Instructions for beginner from scratch.
- Finding common errors and their solutions.
- Understanding the process of publication and peer review.

- Insights into publication and peer-review processes

2. Nature of Research Across Disciplines

In whichever area of study, research consists of basic rules that systematically produce knowledge. Research is a process of inquiry which tries to find out something new whether it be in the computer sciences, natural sciences, social sciences, engineering, or humanities. Further it tries to probe questions, solve problems, and add new knowledge to our existing knowledge. Diverse fields may use different tools, techniques, and focus. Nevertheless, the fundamental framework and reasoning behind research largely remain constant. To be knowledgeable about research and its types, a beginner must be able to. You can select the right methods and approaches for your studies with its assistance.

Research can largely be categorised into three major approaches.

- Qualitative Meaning
- Numerical.
- Blended approach research.

All these approaches serve different purposes and is useful for different types of research questions.

Qualitative research is about phenomena but utilizes non-numeric data. Then, why use the servomechanism? It enables us to understand human nature, behaviour, experience, perception, and social context. Commonly used qualitative research data collection methods include interviews, focus groups, observations, and analyses of texts or documents. For instance, social sciences could refer to the research through conducting interviews for public policy attitude whereas in humanities, it could signify analyzing literary texts for themes and meanings. The depth, context, and subjective view are affecting our common perception. This is

extremely useful when coming up with new ideas or describing experiences.

This method relies on numerical values and statistical analysis. You will find it everywhere, from science and engineering to economics, particularly when measurable variables and objective analysis are essential. Quantitative Research Collects Data in the Form of Surveys Using Closed Questions with Short Answers and Other Numerical Data. The main aim here is to experiment with ideas, observe patterns and eventually demonstrate how the variables are related. For example, in engineering or computer sciences, we may evaluate an algorithm's performance in terms of accuracy, efficiency, and time complexity. Quantitative research is exact, replicable, and allows for generalization. These are some of its benefits.

Qualitative and quantitative studies are included in mixed-method research as the name suggests. When one method does not suffice to understand a complex situation, it is a great help. incorporating numbers into narrative allows for checking of results and adds richness to analysis A study, for instance, might deploy surveys to collect quantitative data and subsequently conduct interviews to glean deeper insights regarding participant responses. As a result, it enhances both the reliability depth of the research

Research can also be classified based on purpose and contribution in addition to methodology. The creation of new knowledge is referred to as original research. We consider this to be the most valuable type of research as it pushes the field ahead directly. A review paper brings together and critically evaluates the findings of the researched work done already. They reveal patterns, discrepancies, and prospective paths. They make it particularly useful for novices who wish to grasp a research domain. An in-depth study of a case is an

investigation that estimates the specific & more familiar instance that surpasses the broader study.

Qualitative Research	Quantitative Research	Mixed Methods
What It Is Explores experiences and meanings	When to Choose It - Understand 'why' or 'how' - Open-ended questions - Human experiences	Combines qualitative and quantitative
When to Choose It - Understand 'why' or 'how' - Open-ended questions - Human experiences	Strengths - Generalizable results - Statistical analysis	Strengths - Comprehensive - Validates findings
Strengths - Rich data - Flexible approach	Limitations - Smaller samples - Subjective	Limitations - Time-intensive - Complex

Figure 1: Classification of Research Approaches (Qualitative, Quantitative, Mixed Methods)

Though they differ in method and form, research shares a similar structure and process. This typically begins when we discover a research issue. After that, we explore the existing literature, select the right methodology, collect the data, analyze the collected data, and finally interpret the results. This approach will ensure the logic and transparency of the research. It is vital for beginners to keep these similarities in mind. It enables you to tailor general research ideas to your discipline and keep the top strong and clear.

3. Generating Ideas and Defining Problems.

A clear and meaningful problem is at the heart of every successful research study. A good research problem makes research relevant, original, and useful; guides the study; and determines appropriate methodology for the study. For novices, this phase is usually the hardest one. What is the reason? Due to the need of critical thinking, depth

knowledge in the areas (Computer Science) etc. An unfocused research design, weak methods and unclear results occur from a poorly defined problem. A clearly articulated problem outlines the course of the entire research process.

3.1 Sources of Research Ideas.

Generation of research idea is not haphazard. It relies on a process of exploration and observation. Identifying literature gaps is one of the most reliable sources. Examining the existing literature enables us to find research gaps and future directions for the topic. A particular study might restrict itself to one group, one methodology, or one dataset. This gives us the opportunity to explore or enhance those findings.

Real-world challenges also inspire us greatly. A lot of influential research stems from issues faced in industry, society, and everyday life. These issues can be tackled with creative solutions which can connect the theory with the practicality. Dilemmas touching on the health industry, the environment or tech efficiency can prompt worthwhile research ideas.

One way to develop ideas is through theoretical extensions, where researchers use existing theories and models. This might entail perfecting the theory, using it in a novel context, or integrating it with others to generate insights. This enables us to broaden the frontiers of academic knowledge.

Further, taking to consulting people, experts, attending seminars and making yourself aware of inter-disciplinary topics also enhances your idea generation. As a novice researcher, it is prudent to stay curious, watchful, and open-minded while selecting a research topic.

3.2 Issue Statement.

You have a research idea; now turn the idea into a clear problem statement. The research problem helps to pave the way for the study, and its

statement explains the study conducted. A good problem statement can get you quite far.

First and foremost, it should be clear and straightforward, without ambiguity or unnecessary complexity. Clarity makes it easy for the reader to follow the research. Second, it must be researchable, which means that it can be explored through adequate methodologies. If you cannot measure or analyze a problem, it won't give you much. Third, the problem must be relevant. It means the problem should concern something important in the field. Further, the problem should contribute to knowledge or practice already taking place in the field.

An effective problem statement has context, identifies a gap, or specifies a limitation that needs further investigation. An iterative process of refinement by expert mentor feedback of the beginner's problem statement, according to available resources and time frame, may be required.

3.3 Research Goals and Queries.

Identify your issue first. Afterward you set clear research aims and questions. Your study will be guided and structured by these. The research goals are the general aspirations of it. They express your goals in clear, measurable terms within a specified timeframe. Such efforts may lead you to seek ways to assess the performance of a system or analyze an event or a new model.

On the other hand, research questions are your objectives, articulated into questions you seek to answer. These aids enhance the effectiveness of your studies and show you the essential information. Good research questions are clear, focused, and consistent with your problem statement. In some types of quantitative research, you may express these questions as hypotheses which you can test statistically.

Research objectives and questions form your roadmap throughout the research process. Your methods, how you collect the data, and what you do

with it. For new researchers, it is important to ensure that your objectives and questions logically follow from your problem statement, and are achievable within the limits of your study.

4. Review of Literature.

The intellectual foundation of any research study is provided by the literature review. By examining published literature in each field such as Computer Science and other academic disciplines, it links what we know already with what you will add to knowledge. Do not merely summarize previous studies. An effective literature review evaluates, contrasts, and integrates all existing research to provide a context for your study. This section is important for new researches because it gives you an idea about what has been done, missing and your work.

4.1 Reason of Literature Review

The literature review serves a variety of important functions.

First, it helps you understand existing work by getting you familiar with key theories, methods, and findings in your area. Building on what we already know is easier than starting fresh.

Secondly, it helps to identify research gaps. A close examination of earlier studies will reveal limitations, open questions and/or inconsistent efficacy. New study starts from these gaps and shows you are adding something new to the knowledge.

Third, the literature review prevents duplication. Your study will have less impact if you do repetitious work that does not offer new insight. By reviewing existing works, you can make sure your own research offers something different, better or a new way of thinking (Riel and Snyder, 2024; Eneome, Eberechukwu and Obiakor, 2025; Lian et al., 2025).

A literature review demonstrates that you have been briefed in the field in which you work.

4.2 Literature's Resources.

Selecting Appropriate Sources for a Successful Literature Review. Peer-reviewed journals are trusted because of their credibility and valid research. Sources that are thoroughly vetted by experts are the best sources. Scholarly papers provide relevant information for papers that are researched. Social media is an essential resource that enables you to discover cutting-edge innovations. It brings you new ideas and trends that may hit the journals in the months to come.

Books as well as Textbook provides the fundamentals and big ideas Beginner sources give you a sense of the big ideas before you read anything heavy. Besides these, you may also find many academic papers using digital databases and platforms such as Google Scholar and IEEE Xplore, SpringerLink and many more. Ensure you use topical and highly cited references; usefulness and quality at a premium (Haboussi et al., 2025; Vaswani et al., 2025).

4.3 A process of literature review.

Literature review process is systematic. The initial step is to utilize the appropriate database by using relevant keywords. Successfully searching for scientific literature requires using Boolean operators (AND, OR, NOT), filters, and citation tracking.

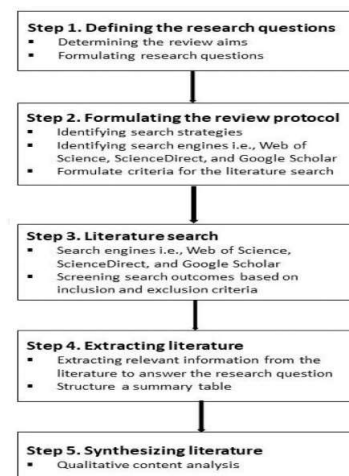


Figure 2: Systematic Literature Review Process

The next step is to filter for quality papers. It is important to check every source for relevance, credibility, publication venue and methodological rigor. As a rule, opt for peer-reviewed articles and frequently cited articles.

Table 1: Literature Review Matrix

Author	Year	Method	Key Findings	Gap
Study A	2023	Survey	High accuracy	Small sample
Study B	2024	Experiment	Strong validation	Limited scope

It's time to organize your findings once you have your research. Grouping papers according to their theme, methodology, or chronology can do this. Utilization of software tools like Mendeley or Zotero help enormously organize and cite reference sources (James et al., 2024; Duymuş, 2025; Lian et al., 2025). In addition to being organized, you should analyze the literature. This does not involve merely enumerating findings, but also evaluating, synthesizing, and interpreting studies in order to present more comprehensive insights. Compare the Studies (Paul and Rialp, 2020; Adeoye, 2024) Compare the different studies by noting similarities and differences in their methodology, findings, and conclusion. The authors identify trends, including emerging theories, dominant methods over time, and new themes spanning publications (Paul and Rialp, 2020; Heston, 2023). They assess their strengths (robust sample sizes, rigorous designs) and weaknesses (methodological biases, limited generalizability, or outdated data) (Adeoye, 2024; Aksakallı et al., 2024). For novices, this is even harder, with beginner writers often struggling to connect studies, interpret findings and synthesise evaluations rather than just summarise. While some researchers argue that a simple descriptive summary will suffice, especially for those pressed for time as it rapidly conveys key points, this misses the point of synthesising, which identifies gaps and pushes knowledge along. Tools such as literature matrices

can assist you in creating a table where you summarize your sources according to various themes, methods, strengths, and critiques.

Table 2: Key Steps in Analyzing and Evaluating Research Literature

Step	Action Example	Purpose
Compare	Note how Study A used surveys vs. Study B's experiments	Reveal methodological diversity
Trends	Track shift from qualitative to quantitative approaches	Show field evolution
Evaluate Strengths	Praise large-scale empirical validation	Highlight reliable evidence
Evaluate Weaknesses	Critique small samples or biases	Identify limitations

This analytical view differentiates a quality literature review from mere summary and gives credibility to your research (Paul and Rialp, 2020).

4.4 Identification of gaps.

Gaps in literature also lead to gaps in research design. Many researchers forget to include their literature review in their methodology section. These gaps indicate where research is deficient, contradictory, or lacking. It is possible that they occur due to lack of data, methods being outdated or any.

In order to identify gaps reading and thinking critically are essential. Inquiries that have not yet been addressed, discrepancies between findings and extra data, or areas where something may have been overlooked can expose opportunities for improvement. For instance, a limited study may have been done, showing we need to test further (“over 200 people in nine countries”) or the effect isn't small.

Clearly showing the gaps defines the contribution of your research. It helps to justify the importance of your work and show how it adds to knowledge.

5. Proposed Structured Framework.

We have devised an eight-phase framework that structures research.



Figure 1: Eight-Phase Structured Framework for Research Paper Development

Phase 1: The Research-idea Conception

Choose a research topic that is interesting and relevant to the discipline.

Inducing the Research Issue,

Phase 2: Specify the research problem and the aim precisely.

Phase 3: Review of literature.

Based on existing studies find the knowledge gaps.

Phase 4: Designing the Methodology.

Choose suitable research approaches based on the aims.

Phase 5: data collection and experimentation.

Perform experiments, surveys, simulations, or other similar techniques to collect data.

Phase 6: Analyzing and interpreting data

Analyze the data you have collected and put it into context.

Phase 7: involves manuscript drafting and structuring.

Compile results in well-organized coherent formal research paper.

Phase 8: Finalization and Submission for Publication.

Edit the article repeatedly and submit for peer-reviewed publication.

The systematic research framework described in the Introduction section enhances the quality of research from conception to dissemination. The framework will help beginners do this research easily. In fact, it will simplify the often-complex process of research writing into a systematic series of steps useful for producing quality academic work. The framework acknowledges that novice researchers may encounter challenges in recognising genuine research gaps, differentiating them from mere gaps in the literature, and determining how to translate their research gap into a viable research question. This systematic strategy prepares novice researchers with tactical students to formulate firm research questions which would lead to a meaningful contribution to their field (Islam, 2024). This distinction is important because often novice researchers cannot differentiate between research gap and research problem causing ambiguity in research questions and weakening conceptual frameworks (Kamal, 2026).

Adopting a systematic approach can help in making progress in a logical way. It also enhances your research.

6. Research Methodology

6.1 Method Selection

The choice of a right research method will depend on the objectives of the study. A careful examination of the different kinds of qualitative, quantitative and mixed-methods approaches to finding the appropriate methodological paradigm, following their epistemological and ontological structures do the research. For instance, when there is a relationship between two things like weight and

intelligence, then correlation test may be employed (Anik, Raaz and Khan, 2023).

6.2 Methods of Data Collection

Surveys are structured questionnaires that are generally distributed to a large sample for a more efficient collection of data. Generalizable insight afforded, but it suffers from respondent bias (Anik, Raaz and Khan, 2023).

Interviews: valuable qualitative data about the motivations and experiences of vulnerable communities. They facilitate exploration albeit being time-consuming and interviewer biased.

Observations are the systematic observation of behaviours of individuals occurring in natural situations as well as controlled settings. The behaviours are recorded as they occur to derive an authentic picture of reality without self-reporting. There are participant and non-participant types which raise ethical issues.

Experiments are specific manipulations of independent variables to see what happens in the dependent variable. Randomization reduces confounding but may be unrepresentative.

Simulations are helpful for testing a hypothesis in a complex environment that cannot be easily tested and cost effective (Anik, Raaz and Khan, 2023).

Method	Type	Advantage	Limitation
Survey	Quantitative	Large data	Bias
Interview	Qualitative	Depth	Time-consuming
Experiment	Quantitative	Causality	Artificial setting
Observation	Qualitative	Real behavior	Ethical issues

Table 3: Data Collection Methods Comparison

6.3 Tools and Techniques

Statistical Tools are computer programs or packages that facilitate any Statistical Analysis such as tests of hypothesis, regression, descriptive statistics etc. Researchers can easily handle and draw inferences from quantitative data. The authors (Anik, Raaz and Khan, 2023) provide examples of SPSS for user-friendly interface in social sciences, R for advanced statistical modelling, and Stata for econometric analysis.

Programming Languages are different coding environments used for data manipulation, automation, and bespoke analyses. They allow for scripting, making research reproducible and flexible beyond graphical interfaces. Python (through libraries, including Pandas and NumPy) is an example of a programming language that can fulfil the requirements for data handling. Another example is R, which can conduct statistical computing. Further, MATLAB supports numerical simulations and has engineering applications.

Specialized platforms for descriptive analysis of datasets, which allow for data exploration, visualization, and communication, usually used for qualitative and mixed evaluation research (for example, NVivo).

Software options include NVivo for the thematic analysis of text-based data; Tableau for interactive graphics and visualizations; and Excel for processing and creating pivot tables.

It avoids plagiarism by properly citing the sources. When a student uses an idea, they incorporate it into their own words and use quotation marks for direct excerpts.

You must ensure the integrity of data by collecting, recording, and reporting that data truthfully without making up, falsifying, selectively reporting, or misrepresenting it.

Manage Confidentiality: Respect your respondents' privacy by anonymizing sensitive

information, acquiring informed consent, securely managing information, and following applicable ethical guidelines (like the institutional review boards).

7. Analysis and interpretation of data.

The step data analysis and interpretation is an important one in the research process. That is to say, the collation is followed by a phase of analysis and interpretation. The application of suitable analytical techniques (quantitative, qualitative, or mixed) on the raw data gives results. In addition, contextually makes sense of the results. This establishes link between research objectives, theory/hypothesis, and existing literature. Proper Analysis Ensures Reliability and Validity Connecting the research to a wider set of implications and avoiding generalisation and misattribution.

7.1 Fundamental Elements.

Statistical tools for hypothesis testing, correlations, regressions, and descriptive statistics are used for quantitative analysis to quantify relationship and significance.

Qualitative analysis refers to a method of analysis involving thematic coding, content analysis or narrative synthesis to identify recurrent patterns, themes, and meanings that come from texts made.

We use charts and tables in data visualization to present results and make them easy to understand.

Summarize the results in relation to the research questions, discuss the limitations of the findings, compare the results to past studies, and discuss the theoretical or practical contributions of the results.

In this stage, data is converted into theoretical knowledge that forms the basis of credible conclusions and recommendations. In the process of data analysis (i.e., participant confidentiality and data integrity); ethical

considerations are essential and must be stringently guaranteed (Romero-Carazas et al., 2024; Tahir, 2024).

7.2 Analysis Techniques.

Statistical analysis refers to the use of statistical tools and techniques for the processing of quantitative data. These include descriptive statistics (i.e., means, frequencies), inferential tests (i.e., t-tests, ANOVA, chi-square), correlations, regressions, and multivariate analyses, to test hypotheses, quantify relationships, and assess level of significance. It ensures objectivity, reliability, and generalizability but assumes data normality and may overlook contextual nuances (Anik, Raaz and Khan, 2023; Romero-Carazas et al., 2024; Tahir, 2024).

A method of thematic analysis can be used to identify, analyse, and report patterns (themes) within data. This process consists of six phases: familiarisation, coding, generating, reviewing, defining, and reporting themes. An extensive and deep exploration of experiences and meanings is possible, but it is also subjective, potentially very time-consuming, and may suffer from researcher bias (Romero-Carazas et al., 2024; Tahir, 2024).

Presentation of Result

Tables are structured grids that organize data into rows and columns. They are used to present numerical summaries, comparisons, and more detailed data.

Graphs are visual representations using line graphs, scatter plots, area graphs, etc, that can show relationships, trends, and changes over time.

The charts can include bar charts for categorical comparisons; pie charts for proportions; and histograms for distributions.

7.3 Interpretation.

The results must be clearly explained and connected to the research objectives.

8. The Layout of a Research Paper

A standard research article includes

The abstract must be concise (150-250 words long) describing the purpose, research methods, main results, and conclusions of the research. It helps a reader to get an overall view of the paper and its contribution to the research field.

The introduction of the overview manages the research problem and objectives includes the significance and research questions or hypothesis as well as provides the outline of the paper.

Surveys existing studies, theories, and gaps to put the present research in context and support the need for the current research, uses reliable secondary sources such as databases and literature surveys (Anik, Raaz and Khan, 2023)

The methodology is a research design (quantitative, qualitative, or mixed-method), sampling, data collection methods, instruments and analysis techniques for replication and validity (Tahir, 2024).

Results are objective presentation of findings by means of tables, graphs, and statistics with no interpretation. It highlights the pattern, relationship, and significance of data analysis (Romero-Carazas et al., 2024; Tahir, 2024).

The discussion part of this section interprets the results in relation to the research questions. Also, compare results to previously published research. Discuss limitations, implications, and future research. Lastly, discuss ethical aspects such as the integrity of the data (Romero-Carazas et al., 2024).

In the conclusion section, the main findings are presented, along with the contributions made, the recommendations provided, and the directions for future research.

- Writing Ideas.
- Avoid technical terms.
- Maintain the logical flow.
- Do not make it repetitive.

9. Citing Your Sources.

9.1 Referencing and Citation.

Citations and referencing are an important part of academic writing, as they give credit to the original author, strengthen the credibility of the paper, help readers verify the information and prevent plagiarism. The proper way to cite maintains decorum and the amalgamation of existing scholarship (Anik, Raaz and Khan, 2023).

The most used social sciences citation style is APA. uses author-date in-text citations (eg, Smith, 2023) and alphabetical reference lists.

MLA is the format most used in humanities. It uses author-page citations (like Smith 45) and provides a Works Cited page.

The IEEE style is the most common style in engineering and technical fields. The style is a system of numeric superscripts in the text which are linked to numbered references.

9.2 Imagery.

Mendeley is a free reference manager that does PDF organization, bibliography creation, and team library sharing.

Zotero is open-source software that captures sources from web pages and can use multiple styles. It integrates with word processors.

9.3 Preventing Plagiarism.

Reword content in your own words, very rarely quote directly with citations, and always check with something like turn it in. Ensure the accuracy and integrity of references.

10. Common Mistakes by Beginners

New researchers formulate a vague, too broad, saccharine section like “Every day millions of people walk the streets of Buenos Aires. It is an amazing Plaza. There are so many different restaurants...”⁴. Problem title and explanation the needless vagueness results in loose objectives and justifications, and much difficulty in forming precise research question/hypothesis. To avoid, state the issue, what the context is, and why it matters.

A literature review is weak when it fails to survey the existing studies comprehensively, identify the gaps, and engage with the prior work critically. It leads to repetitions and unsupported claims without adequate theoretical backing. Use dependable sources organized thematically or chronologically.

A poor structure such as disorganized sections and illogical flow, or missing key components (e.g., no clear methodology) confuse the reader. Use a standard outline and organize logically with headings/subheadings.

Failing to take the right citations may involve incorrect referencing and non-citation of sources. Utilize one citation style (e.g., APA) and a tool, such as Zotero, to keep accurate.

Language errors like grammatical issues, awkward phrasings, redundancy, or inconsistent terminology affect the readability. Check for grammar mistakes, write in clear academic language, and seek peer feedback.

Table 5: Common Mistakes and Solutions

Mistake	Impact	Solution
Unclear problem	Weak research	Define clearly
Poor review	No novelty	Use quality sources
Wrong citation	Ethical issue	Use tools like Zotero

When you avoid these mistakes, your paper will improve exponentially. Moreover, awareness and use of various citation styles such as APA, MLA, and Chicago are important to maintain academic integrity, as well as to incorporate new knowledge into the existing academic discourse (Barasa, 2024; Garg, 2024). Citation management tools like Zotero to not only help researchers format their references properly. They also enable users to integrate different sources into their work seamlessly. In the process, researchers collect, sort, and share research materials reasonably effectively.

Further, they help you avoid common mistakes (Nikolov, 2023; Meer, 2025). Omitting this aspect will make the paraphrased sections look like fabrication (Habiba and Shadek, 2024).

11. Publication Process

11.1 Journal Selection

Scholars must choose journals that are related to their paper's topic, scope, methodology, audience, impact factor, acceptance rate, and indexing database. Please provide the text that you would like me to paraphrase.

11.2 Submission

It's essential to respect the journal's formatting guidelines, author guidelines, word limitations, reference style, submission process via online portals, etc. It can send out a custom cover letter. It helps avoid desk rejection.

11.3 Peer Review

Each paper assigned to independent experts for a blind peer review of the originality, soundness, validity, clarity, and contribution will take about 1-6 months

11.4 Revision

Make sure to integrate the reviewers' comments, change the content, support your claims, clarify the ambiguities, and provide a point-by-point response letter detailing the changes made and re-submit it as soon as possible for reconsideration.

12. Conclusion

The research writing framework outlined in this paper is broad and contains organized frameworks for beginners. A beginner's guide to research shows how to create new ideas, define a problem statement, conduct a literature review, design a research methodology, objectively analyse results, discuss interpretation, and navigate the publication process successfully. The framework improves the clarity, rigor, and impact of academic work by emphasising clear expression, logical construction, proper

referencing (using a referencing tool such as Zotero) and avoiding common pitfalls (vague objectives, plagiarism, etc.). You can use it in different fields and disciplines. It increases reproducibility, ethics, and credibility. It helps novice researchers obtain quality papers that contribute to existing research. In conclusion, this adaptable resource provides emerging scholars with valuable tools to translate ideas into publishable outputs, addressing gaps in novice research practices.

13. Future Scope

Future studies can use technologies to make futures studies more academic. Essential sectors contain the consolidation of artificial intelligence devices to mechanise scripting, rectifying, and blueprint generations mechanisms; improvement of mechanised literature Review systems that efficiently synthesize colossal research sources and pinpoint research voids; and production of cooperative frameworks producing real-time co-authorship, resource allocation, and interdisciplinary teamwork. The promise of enhancing efficiency, accessibility, and quality of the research work.

References

- [1] APA (7th ed.) · American Psychological Association 7th edition Export Adeoye, M. A. (2024). Mastering the Basics: A Guide to Research Methodology for Effective Writing and Publication. Deleted Journal, 4(1), 30. <https://doi.org/10.31538/cjotl.v4i1.1345>
- [2] Aksakallı, C., Yağız, O., Bakırtaş, Ş., & Ötügen, R. (2024). Evaluative Literature Review Writing by Novice Academic Writers: Enhancing Knowledge and Awareness. Sustainable Multilingualism, 25(1), 252. <https://doi.org/10.2478/sm-2024-0019>
- [3] Anik, M. H., Raaz, S. N. C., & Khan, N. (2023). Embracing AI Assistants: Unraveling Young Researchers' Journey with ChatGPT in Science Education Thesis Writing. Research Square (Research Square). <https://doi.org/10.21203/rs.3.rs-3481002/v1>
- [4] Barasa, D. (2024). Demystifying the Discourse: Techniques to Effective Academic Writing. Journal of Research and Academic Writing., 1(1), 13. <https://doi.org/10.58721/jraw.v1i1.571>
- [5] Chand, R. (2023). Framework for Identifying Research Gaps for Future Academic Research. IRA International Journal of Education and Multidisciplinary Studies, 19(2), 160. <https://doi.org/10.21013/jems.v19.n2.p12>
- [6] Duymuş, H. (2025). Urban Heat Island Research from 2015 to 2024: A Bibliometric Analysis. Chinese Journal of Urban and Environmental Studies, 13(2). <https://doi.org/10.1142/s2345748125500113>
- [7] Eneome, E. C., Eberechukwu, P. C., & Obiakor, E. (2025). Appraisal Of the Use of social media In Generating Public Opinion for The Proposed New Tax Reform in Nigeria.
- [8] Garg, A. G., Neeraja kalluri, Hardik Dhull, Manika. (2024). The Art of Citation: Exploring Various Referencing Styles in Academic Writing. <https://doi.org/10.52783/ceel.v14i2.1732>
- [9] Habiba, U., & Shadek, Md. S. (2024). From awareness to action: the mediating role of plagiarism avoidance techniques in upholding academic integrity and ensuring legal and institutional consequences. Research Square (Research Square). <https://doi.org/10.21203/rs.3.rs-5200350/v1>
- [10] Haboussi, S., Oukas, N., Zerrouki, T., & Djettou, H. (2025). Arabic speech recognition using neural networks: concepts, literature review and challenges. Journal of Umm Al-Qura University for Applied Sciences. <https://doi.org/10.1007/s43994-025-00213-w>

- [11] Heston, T. F. (2023). Foundations of Scholarly Writing. SSRN Electronic Journal. <https://doi.org/10.2139/ssrn.4653380>
- [12] Islam, R. B. (2024). Strategic methods for emerging scholars: Identifying research gaps to enhance scholarly work. *World Journal of Advanced Research and Reviews*, 23(3), 679. <https://doi.org/10.30574/wjarr.2024.23.3.2711>
- [13] James, J., Xiao, C., Li, Y., & Lin, C. (2024). On the Rigour of Scientific Writing: Criteria, Analysis, and Insights. *arXiv* (Cornell University). <https://doi.org/10.48550/arxiv.2410.04981>
- [14] Kamal, M. M. (2026). "Mind the Gap, Define the Problem": Why Confusing Research Gaps with Research Problems Holds Back Great Research? *المجلة العربية للعلوم الإدارية*. <https://doi.org/10.34120/ajas.2026.1741>
- [15] Lian, F., Yi, W., Ji, G., Xia, J., & Wang, H. (2025). The Impact of Green Infrastructure on Mitigating Urban Heat Island Effect: Current Status, Trends, and Challenges. *Forests*, 16(9), 1450. <https://doi.org/10.3390/f16091450>
- [16] Machimbidzofa, G. (2025). Identifying Research Gaps and Formulating a Unique Contribution: A Foundational Approach to Scholarly Inquiry. *International Journal for Multidisciplinary Research*, 7(5). <https://doi.org/10.36948/ijfmr.2025.v07i05.55575>
- [17] Meer, S. (2025). Citation of an Academic Research Paper through Use of Software. *Journal of Social Sciences - Kabul University*, 3(3), 345. <https://doi.org/10.62810/jss.v3i3.230>
- [18] Meyer, S. J. (2022). Introduction to intersectional qualitative research. *Journal of Public Affairs Education*, 28(4), 460. <https://doi.org/10.1080/15236803.2022.2061262>
- [19] Molokomme, R. T. (2025). Beyond the known: analysing complexities of novice researchers in identifying and filling research gaps in social science scholarship. *International Journal of Research in Business and Social Science* (2147-4478), 14(4), 325. <https://doi.org/10.20525/ijrbs.v14i4.4092>
- [20] Nikolov, P. (2023). Writing Tips for Crafting Effective Economics Research Papers □ 2023-2024 Edition. SSRN Electronic Journal. <https://doi.org/10.2139/ssrn.4499465>
- [21] Paul, J., & Rialp, A. (2020). The art of writing literature review: What do we know and what do we need to know? *International Business Review*, 29(4), 101717. <https://doi.org/10.1016/j.ibusrev.2020.101717>
- [22] Piran, Md. J., & Tran, N. H. (2024). Enhancing Research Methodology and Academic Publishing: A Structured Framework for Quality and Integrity. *arXiv* (Cornell University). <https://doi.org/10.48550/arxiv.2412.05683>
- [23] Riel, A. C. R. van, & Snyder, H. (2024). Enhancing the impact of literature reviews: guidelines for making meaningful contributions. *Spanish Journal of Marketing - ESIC*, 28(3), 250. <https://doi.org/10.1108/sjme-05-2024-0125>
- [24] Romero-Carazas, R., Huiza, D. M., Ancaya-Martínez, M. D. C. E., Barrios, S. T., & Berrio-Quispe, M. L. (2024). Método de investigación científica: Diseño de proyectos y elaboración de protocolos en las Ciencias Sociales. In *Instituto de Investigación y Capacitación Profesional del Pacífico* eBooks. <https://doi.org/10.53595/eip.012.2024>
- [25] Tahir, S. R. (2024). Reliability and Validity of Mixed Methods Research. In *Advances in*

library and information science (ALIS) book
series (p. 167). SAGE
Publishing. <https://doi.org/10.4018/979-8-3693-1135-6.ch008>

- [26] Vaswani, A., Shazeer, N., Parmar, N.,
Uszkoreit, J., Jones, L., Gomez, A. N., Kaiser,
Ł., & Polosukhin, I. (2025). Attention Is All
You Need. 30, 5998.
<https://doi.org/10.65215/2q58a426>