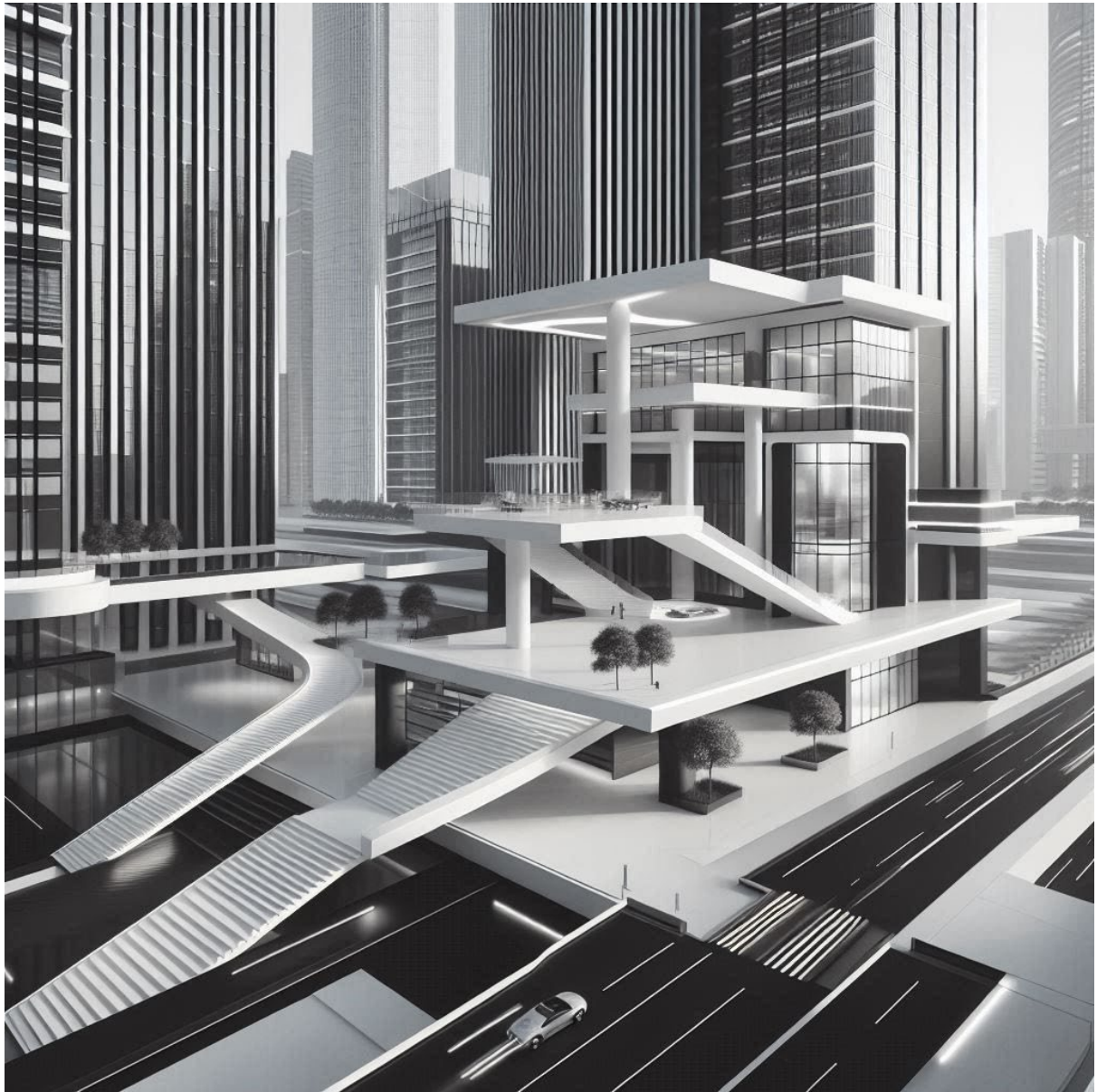




**JOURNAL OF
THE NIGERIAN
INSTITUTE OF
ARCHITECTS**

September 2024 Vol. 2

ISSN: 2315-8913 (Print)
ISSN: 1595-4110 (Digital)

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About NIAJ

Journal of the Nigerian Institute of Architects (NIAJ) is an academic journal, which is coordinated by the Library and Publications Committee of the Nigerian Institute of Architects. The first issue of NIAJ was published in 1981. Before 2023 all copies of the journal were printed with ISSN 2315-8913, however since 2023, the journal is printed digitally.

The Journal of the Nigerian Institute of Architects, NIAJ publishes peer-reviewed, original research and review articles on architecture and the built environment in an open access format. NIAJ is a comprehensive journal, accepting articles that span the full extent of the social, behavioural and environmental sciences as well as the humanities. NIAJ aims to be the

leading journal in architectural research and practice matters. Through a rigorous review of relevant literature and evaluation of valid research methods in articles, the journal aims to be a publishing reference in the architecture field. While this journal is the flagship publication for The Nigerian Institute of Architects, papers are not restricted to the profession, rather multidisciplinary research is encouraged in line with global best practices.

NIAJ is calling for papers! All the manuscripts in architecture and civil engineering are welcome and appreciated. NIAJ publishes original research papers with high quality, and the submitted manuscript will go through peer-review process.

Editor-in Chief

Arc Prof Erekpitan O. Ola-Adisa, PhD MNIA

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From the Chair, Library and Publications Committee

I am pleased to announce the release of Volume 2 of the September 2024 edition of the NIAJ, which addresses several pressing themes: building collapse, retrofitting, climate change and resilience. These topics are of paramount importance as we navigate the challenges facing our built environment in an ever-changing world.

In this volume, we confront the urgent realities of structural integrity and the necessity for robust retrofitting strategies for flood zones and thermal efficiency. The recent instances of building failures remind us that our architectural practices must evolve to prioritise safety and sustainability. We delve into innovative approaches that not only enhance the resilience of our structures but also integrate seamlessly with the surrounding environment.

Climate change is a central focus of our discussion, as its impacts are increasingly felt across the globe. This volume seeks to explore how we can adapt our built environment to withstand these changes, ensuring that our communities remain safe and thriving. Through thoughtful design and strategic planning, we can create spaces that are not only functional but also resilient to the challenges ahead.

I encourage you to engage deeply with the articles and research presented in this edition. The insights shared by our contributors can inspire us to rethink our approaches and foster a culture of resilience in our practices.

Thank you for your continued support and engagement as we explore these critical issues together. Let us work collaboratively towards a future where our built environments not only stand the test of time but also contribute positively to our communities and the planet.

Arc Afolabi Adedeji, FNIA

Chair, Library and Publications Committee

Editorial: Building Resilience - Addressing Pressing Challenges

I am pleased to introduce Volume 2 of September 2024, which confronts several pressing themes in our built environment: building collapse, retrofitting, climate change, and resilience management. As we navigate an era marked by rapid urbanisation and environmental change, these topics are more relevant than ever.

This edition aims to shed light on the critical issue of building collapse, an alarming phenomenon that underscores the need for robust safety measures and proactive design strategies. The articles within this volume explore case studies and analyses that highlight the causes and consequences of structural failures, prompting us to reflect on how we can learn from these events to enhance the safety and durability of our buildings.

Retrofitting emerges as a crucial response to the challenges posed by aging infrastructure and changing climate conditions. This volume presents innovative approaches to retrofitting existing structures, showcasing how thoughtful modifications can improve resilience while minimising waste and preserving our architectural heritage. By embracing retrofitting, we can extend the lifespan of our buildings and ensure they meet contemporary standards for safety and sustainability.

Climate change continues to present unprecedented challenges, demanding that we adopt resilient management strategies. The contributions in this issue provide valuable insights into adaptive design practices and policy frameworks that can help communities withstand environmental stresses. By prioritising resilience, we can safeguard our urban environments against the impacts of climate change and create spaces that thrive amidst uncertainty.

I extend my gratitude to the authors and researchers whose insights and expertise enrich this volume. Their work not only addresses these urgent issues but also inspires us to adopt proactive measures in our own practices.

As you engage with this issue, I encourage you to consider the implications of these themes for your professional activities and the broader community. Together, we can foster a culture of resilience that prioritises safety, sustainability, and adaptability in our built environments.

Thank you for your continued support and readership. I trust that you will find this edition both informative and thought-provoking.

Arc Prof E.O. Ola-Adisa, PhD MNIA
Editor-in - Chief

Guide for Authors

NIAJ is a comprehensive journal, accepting articles that span the full extent of the social, behavioural and environmental sciences as well as the humanities. NIAJ aims to be the leading journal in architectural research and practice matters. Through a rigorous review of relevant literature and evaluation of valid research methods in articles, the journal aims to be a publishing reference in the architecture field. While this journal is the flagship publication for The Nigerian Institute of Architects, papers are not restricted to the profession, rather multidisciplinary research is encouraged in line with global best practices. The articles must be original and should not have been published previously, and the manuscript will be double-blind peer-reviewed. NIAJ is a unique open access publication that provides free full text download of all articles published in the journal through the platform (<https://niaj.org>) without any page charges or subscription requirements. Authors are invited to submit papers through the submission system. Once your article is accepted, you will receive an email from the submission system. The email contains a link to check the status of your article. Before you contribute to NIAJ, you should read the following contents

Types of paper

Contributions falling into the following categories will be considered for publication: Original research papers, Reviews.

Please ensure that you select the appropriate article type from the list of options when making your submission. Authors contributing to special issues should ensure that they select the special issue article type from this list.

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- Permission has been obtained for use of copyrighted material from other sources (including the Internet) and checked for plagiarism as NIAJ will not accept more than 25% similar materials.
- Journal policies detailed in this guide have been reviewed

Publishing ethics

This journal operates a double-blind review process. All contributions will be initially assessed by the editor for suitability for the journal. Papers deemed suitable are then typically sent to a minimum of two independent expert reviewers to assess the scientific quality of the paper. The Editor is responsible for the final decision regarding acceptance or rejection of articles. The Editor's decision is final. The peer review process is following: Author submits paper to journal→ Editor's initial evaluation of paper (go to next step if it meets the requirements of journal, otherwise reject and inform author)→ Invite experts for peer review→ Experts send comments to editor→ Editor decides to accept (or reject and inform authors)→ Editor asks author to revise→ Author revises and submits revised paper→ Editor and/or original reviewers re-evaluate to decide further revisions needed or reject or accept → Inform author

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