

Inaugural editorial for Discover Concrete and Cement

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1 Introduction

Welcome to *Discover Concrete and Cement*, a new open-access journal that aims to foster multidisciplinary research and policy development in concrete and cement.

Cement is a crucial component of concrete and can also be used as a binding element in construction projects. Concrete is the most widely used construction material due to its unique performance characteristics, workability, and ease of application. However, for many years, the challenge of its sustainability, including carbon dioxide emissions, has been a significant concern. Challenges, innovative approaches, and future directions draw on the best available knowledge and technologies from different fields of materials science and engineering of concrete and cement.

Discover Concrete and Cement aims to become a unique platform that offers solutions for these challenges and practical complications. It will find alternative paths for sustainable and eco-friendly concrete and cement materials and technologies and examine the innovations shaping this sector's future.

Discover Concrete and Cement is a journal for academics, researchers, practitioners, industrial professionals, and policymakers to share and access the latest developments in the field and engage in dialogue and collaboration across disciplines and sectors.

2 Topics

Papers suitable for *Discover Concrete and Cement* will cover advances in theory, methodology, case studies, applications, reviews, and data reports. Topics of interest include but are not limited to:

- Concrete and cement chemistry
- Circular economy of concrete materials
- Design and manufacturing
- Digital/computational research
- Fabrication
- Green/sustainable cement and concrete
- Modelling
- Novel cement and concrete
- Processing and production of cement and concrete mixes
- Structural characterization and durability

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- Technology and applications of concrete and cement
- Uses in infrastructure and engineering
- Conservation of concrete heritage
- Historic concrete
- Durability of cementitious materials
- Supplementary cementitious materials
- Service life assessment
- Microstructural analysis
- Valorization of industrial wastes in concrete technology
- Valorization of construction and demolition wastes
- Testing
- Special concretes

3 Editorial board

Discover Concrete and Cement has established an editorial board consisting of experts from diverse fields aligned with the journal's scope, bringing a wealth of knowledge and experience. Editorial board members are crucial in suggesting topical collections, guest editing, and promoting the journal. They are instrumental in the development and operation of the journal, ensuring its continued success and executing the journal's vision. We are actively recruiting new members to join the editorial board and contribute to the ongoing growth and advancement of the journal.

4 Invitation to contribute

Discover Concrete and Cement welcomes submissions of original research, brief communications, comprehensive reviews, perspectives, case studies, practical applications, and data reports, which cover any aspect of concrete and cement technology, research, or material. Additionally, the journal features Topical Collections on the relevant topics.

Author contributions Salim Barbhuiya: Conceptualisation, Data Curation, Formal Analysis, Writing original draft, Writing—Review and Editing. Bibhuti Das: Writing—Review and Editing. Dibyendu Adak: Writing—Review and Editing. Kanish Kapoor: Writing—Review and Editing. Mohammad Tabish: Writing- Review and Editing.

Data availability Not applicable.

Declarations

Competing interests The authors declare that they have no competing interests.

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