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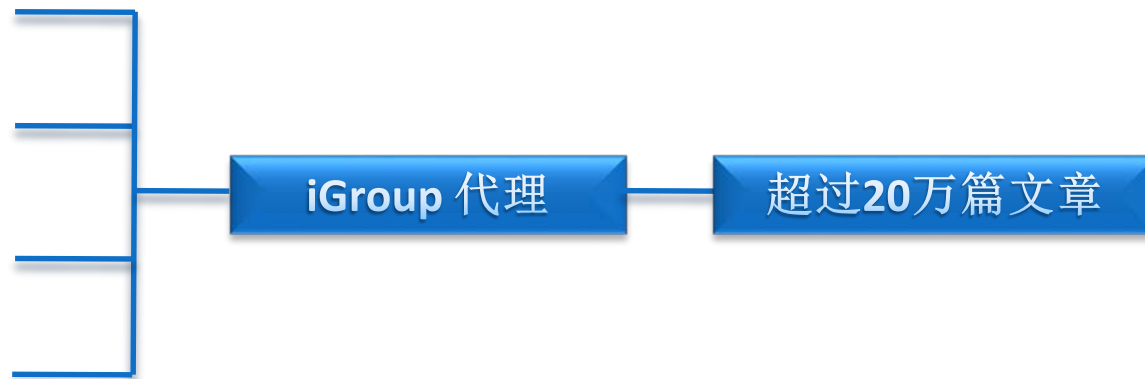
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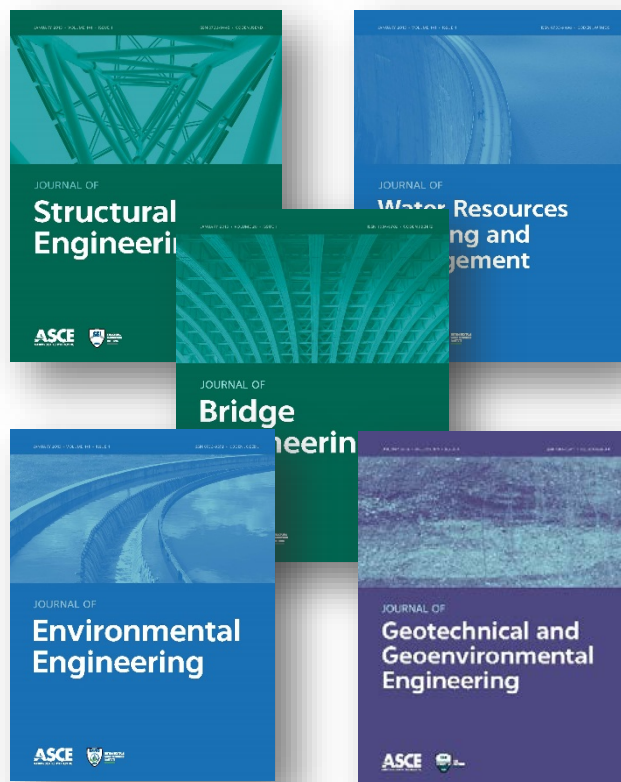




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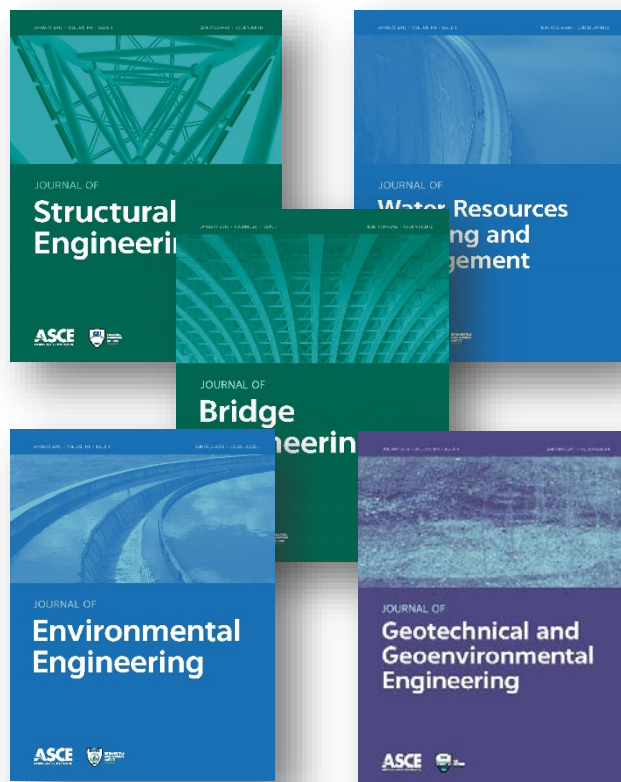
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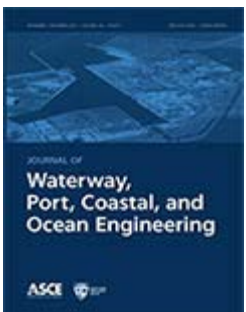
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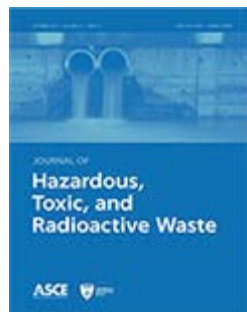
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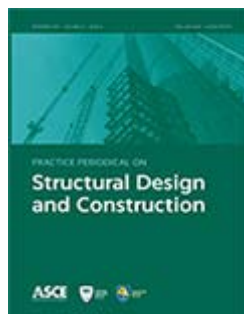
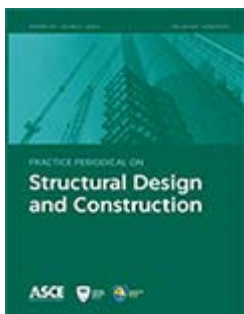


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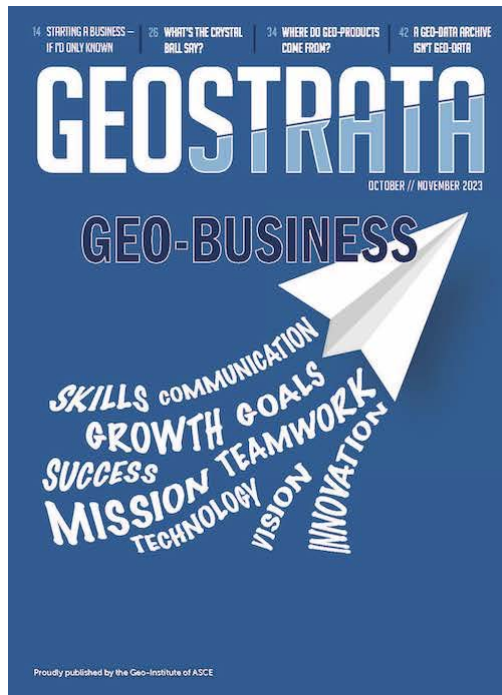
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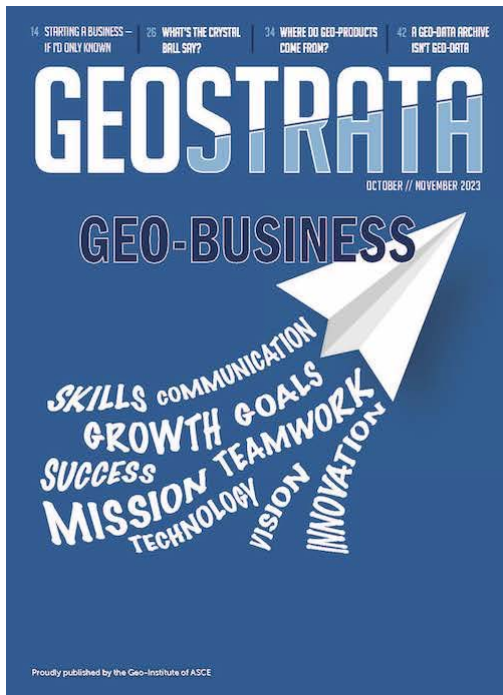
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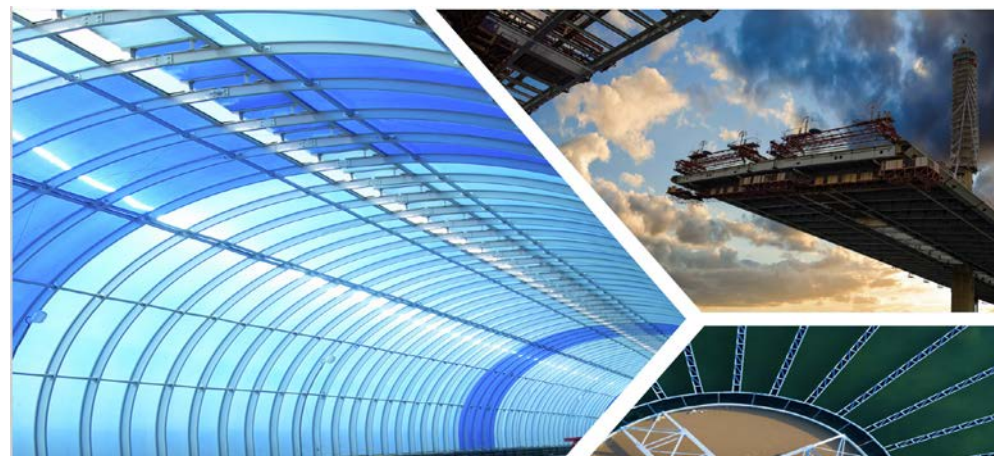
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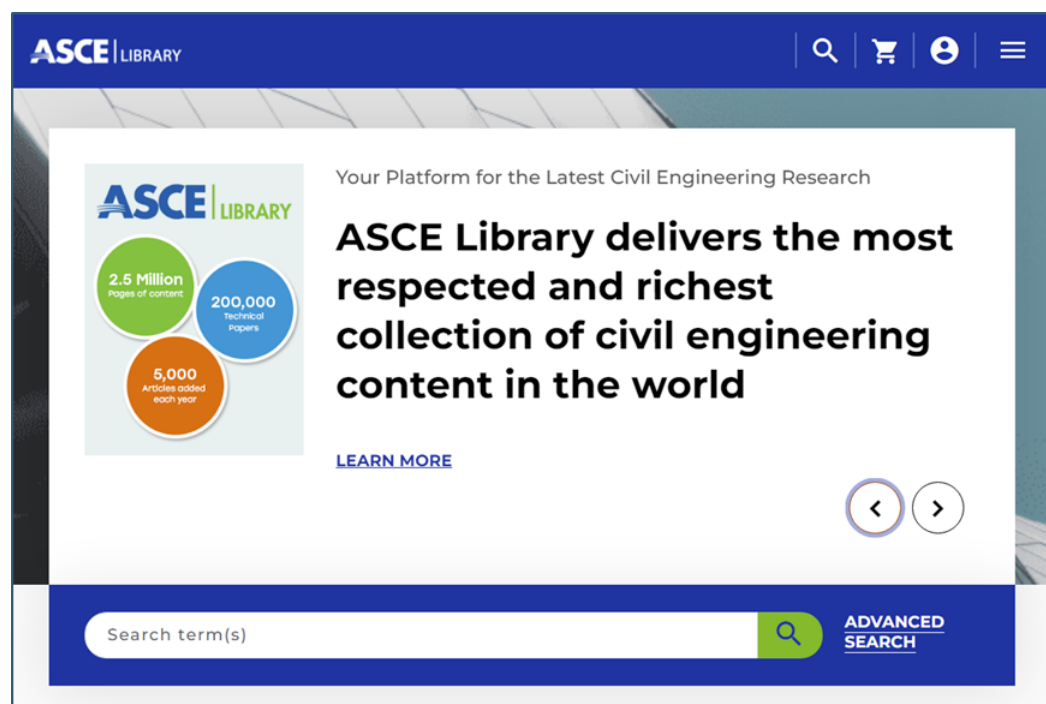




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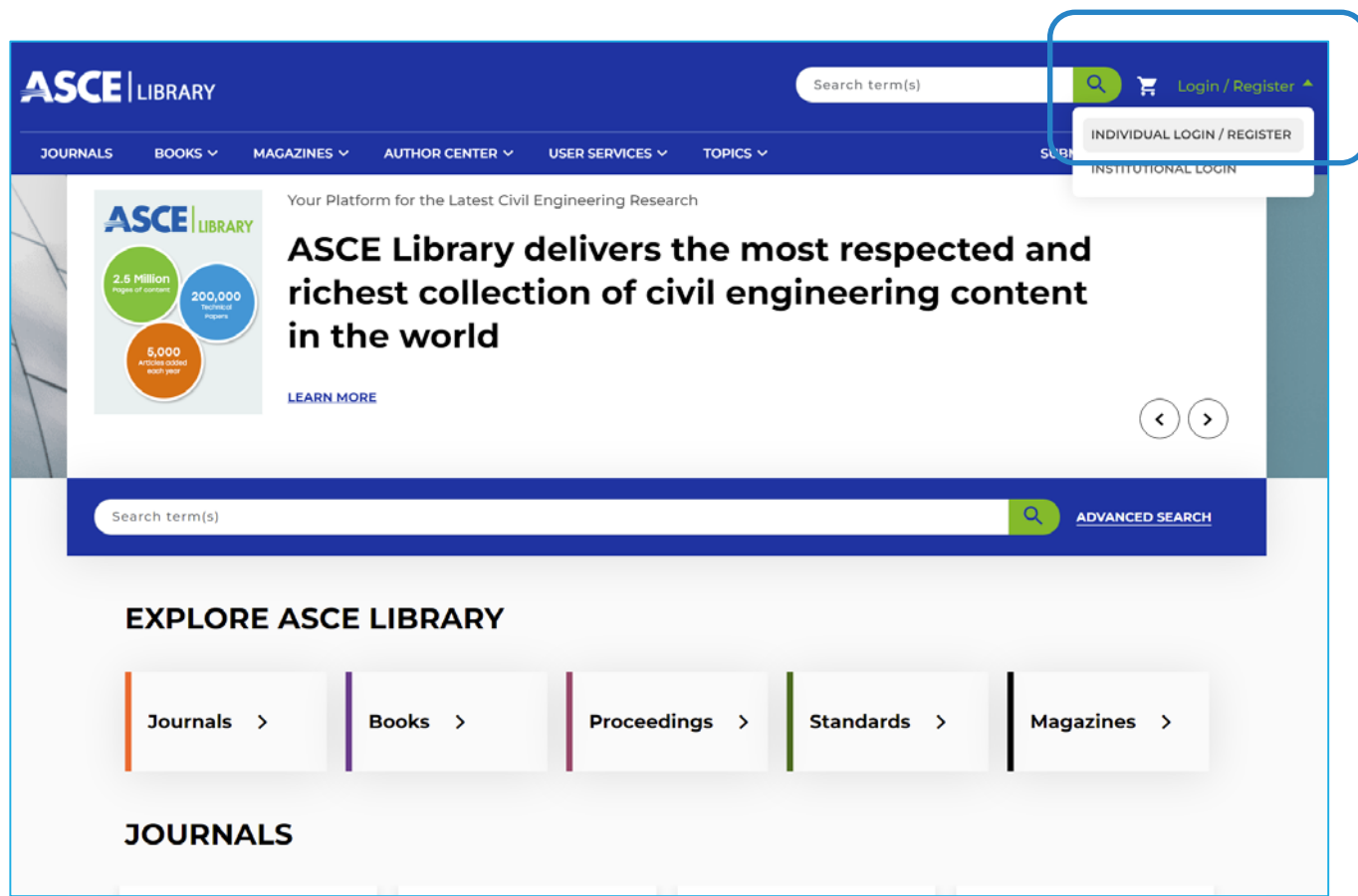
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Modular Construction: Determining Decision-Making Factors and Future Research Needs

Authors: Mohamad Abdul Nabi, S.M.ASCE and Islam H. El-adaway, F.ASCE [AUTHOR AFFILIATIONS](#)

Publication: Journal of Management in Engineering • Volume 36, Issue 6 • [https://doi.org/10.1061/\(ASCE\)ME.1943-5479.0000859](https://doi.org/10.1061/(ASCE)ME.1943-5479.0000859)

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Journal of Management in Engineering

 Volume 36, Issue 6

 November 2020

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- Background Information
- Research Methodology
- Results and Analysis
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- Recommendations for Future Modular Construction Research
- Research Contribution and Limitations

Abstract

With a compound annual growth rate of 10.5%, the modular construction market is forecasted to increase to a market value of \$154.8 million by the end of 2023. Traditional stick-built construction and modular construction differ in many aspects including design, engineering, collaboration requirements, logistics, and others. Available research efforts tried to study and model the complex modular construction processes. However, they seemed to fall short in investigating modular construction processes in a comprehensive and holistic manner. In effect, the currently used decision-making models and processes for modular construction do not necessarily reflect the diverse and multiple interconnected and associated factors. This paper develops a comprehensive list of decision factors as well as determines future research needs for modular construction. As such, the authors (1) conducted a systematic literature review and analysis of modular construction studies that were conducted between 2009 and 2019, (2) highlighted the broad factors affecting decision-making in modular construction projects, and (3) utilized social network analysis (SNA) to quantitatively identify the literature gaps and strengths and create a roadmap for the factors that need further investigation. This paper identified 50 decision factors affecting the various modular construction operations in the construction industry. Consequently, it was revealed that there are some understudied decision factors, including those related to legal and regulatory considerations, material and construction waste management, green practices, as well as commissioning and testing. Further, it was shown that there is an explicit absence of the decision models and frameworks that simultaneously incorporate

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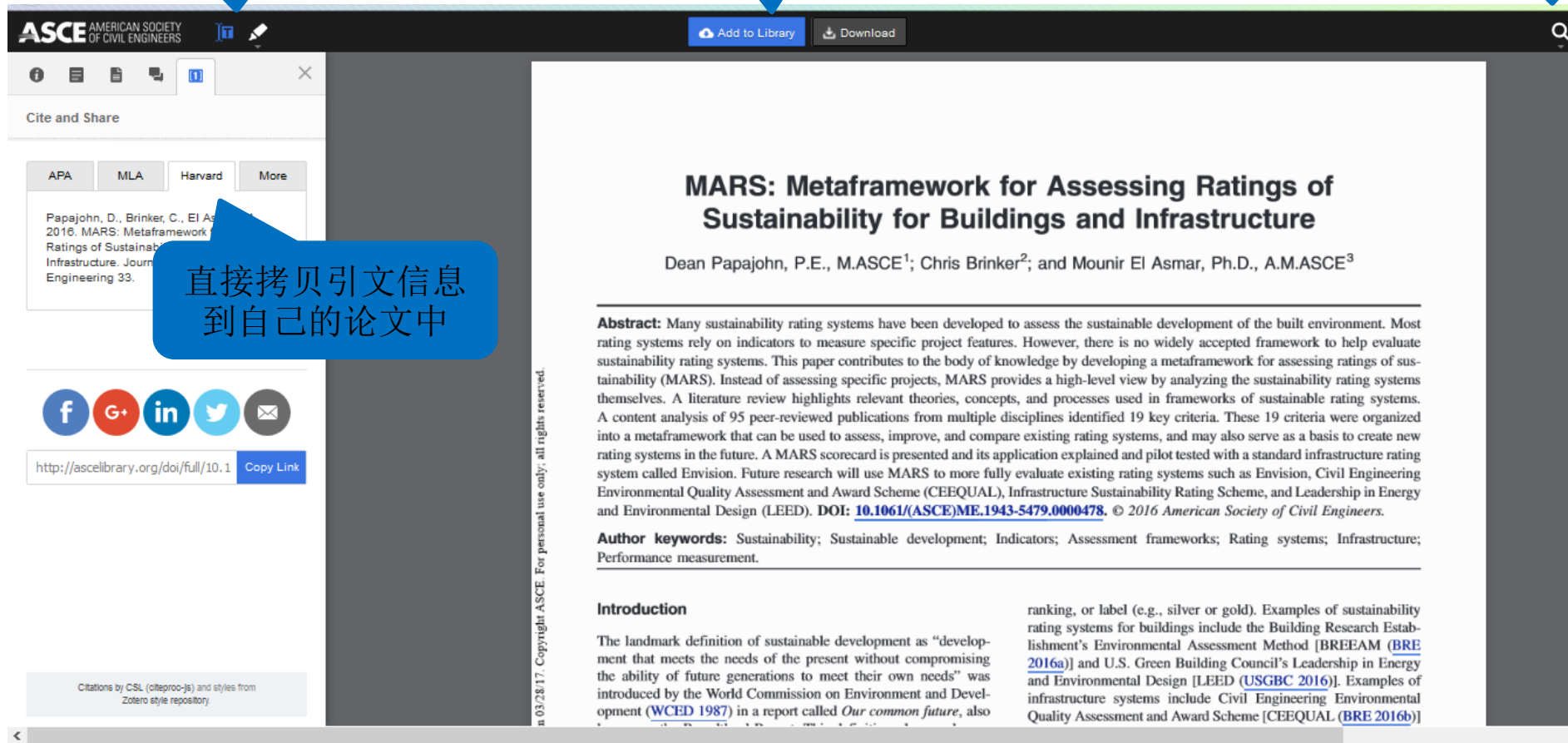
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MARS: Metaframework for Assessing Ratings of Sustainability for Buildings and Infrastructure

Dean Papajohn, P.E., M.ASCE¹; Chris Brinker²; and Mounir El Asmar, Ph.D., A.M.ASCE³

Abstract: Many sustainability rating systems have been developed to assess the sustainable development of the built environment. Most rating systems rely on indicators to measure specific project features. However, there is no widely accepted framework to help evaluate sustainability rating systems. This paper contributes to the body of knowledge by developing a metaframework for assessing ratings of sustainability (MARS). Instead of assessing specific projects, MARS provides a high-level view by analyzing the sustainability rating systems themselves. A literature review highlights relevant theories, concepts, and processes used in frameworks of sustainable rating systems. A content analysis of 95 peer-reviewed publications from multiple disciplines identified 19 key criteria. These 19 criteria were organized into a metaframework that can be used to assess, improve, and compare existing rating systems, and may also serve as a basis to create new rating systems in the future. A MARS scorecard is presented and its application explained and pilot tested with a standard infrastructure rating system called Envision. Future research will use MARS to more fully evaluate existing rating systems such as Envision, Civil Engineering Environmental Quality Assessment and Award Scheme (CEEQUAL), Infrastructure Sustainability Rating Scheme, and Leadership in Energy and Environmental Design (LEED). DOI: [10.1061/\(ASCE\)ME.1943-5479.0000478](https://doi.org/10.1061/(ASCE)ME.1943-5479.0000478). © 2016 American Society of Civil Engineers.

Author keywords: Sustainability; Sustainable development; Indicators; Assessment frameworks; Rating systems; Infrastructure; Performance measurement.

Introduction

The landmark definition of sustainable development as “development that meets the needs of the present without compromising the ability of future generations to meet their own needs” was introduced by the World Commission on Environment and Development (WCED 1987) in a report called *Our common future*, also known as the Brundtland Report. This report introduced the concept of sustainable development, which is defined as development that meets the needs of the present without compromising the ability of future generations to meet their own needs. This definition has been widely accepted and has become the basis for many sustainability rating systems. Examples of sustainability rating systems for buildings include the Building Research Establishment's Environmental Assessment Method [BREEAM (BRE 2016a)] and U.S. Green Building Council's Leadership in Energy and Environmental Design [LEED (USGBC 2016)]. Examples of infrastructure systems include Civil Engineering Environmental Quality Assessment and Award Scheme [CEEQUAL (BRE 2016b)]

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Case Study1027

Discussion469

Front Matter397

Back Matter372

Forum259

Closure241

Editor's Note143

Editorial92

State of the Art Review53

Introduction52

Corrections51

Legal Issues28

Book Review23

Technical Breakthrough Abstract10

Award4

Invited Paper4

In Memoriam2

Letter2

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Refine v

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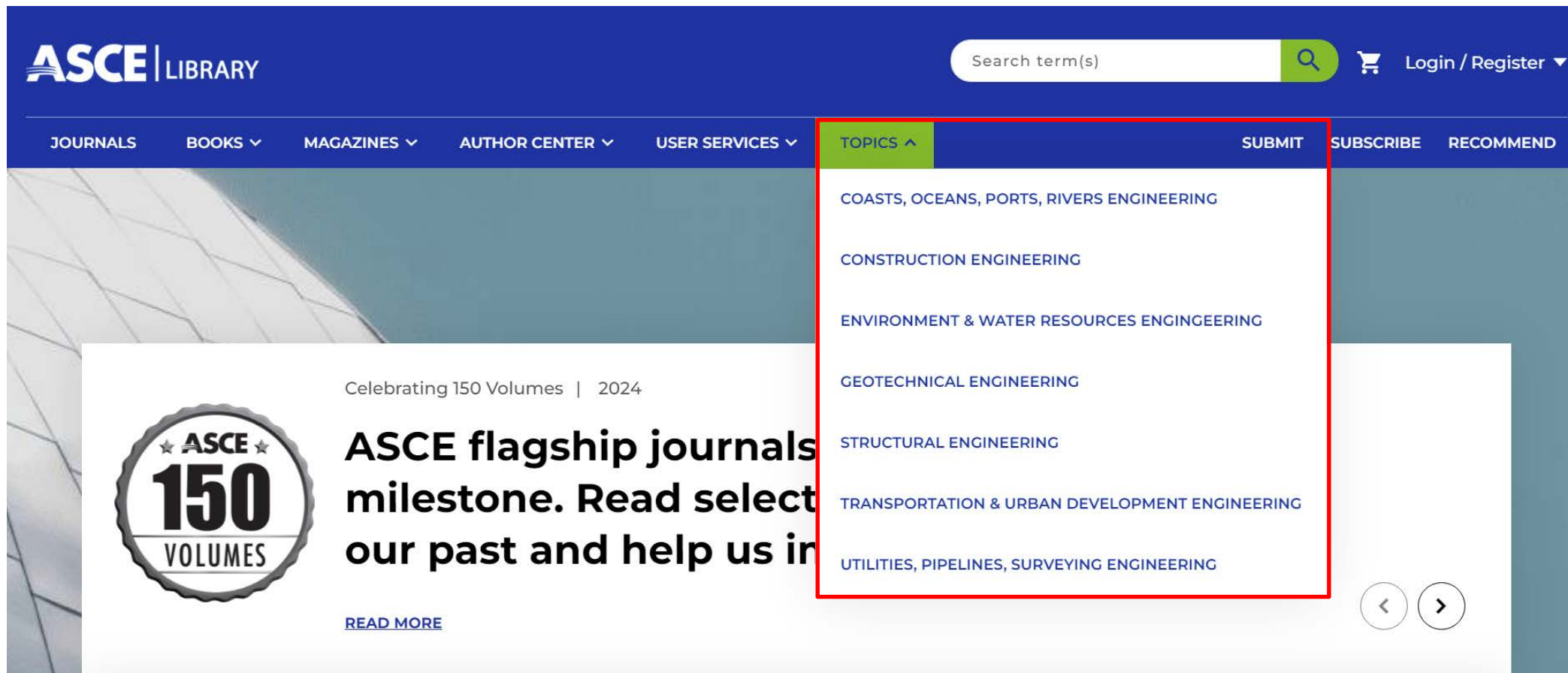
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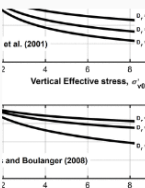
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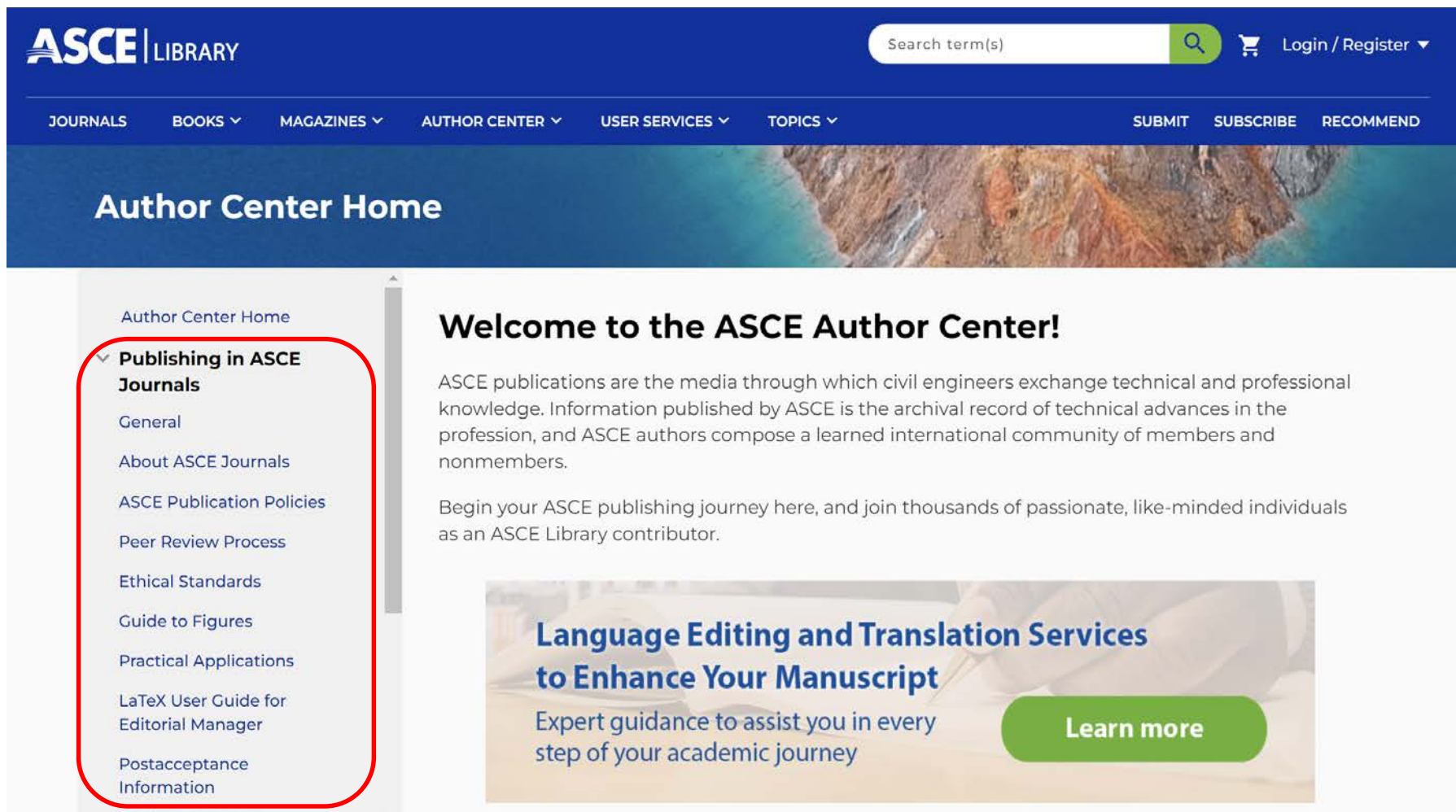
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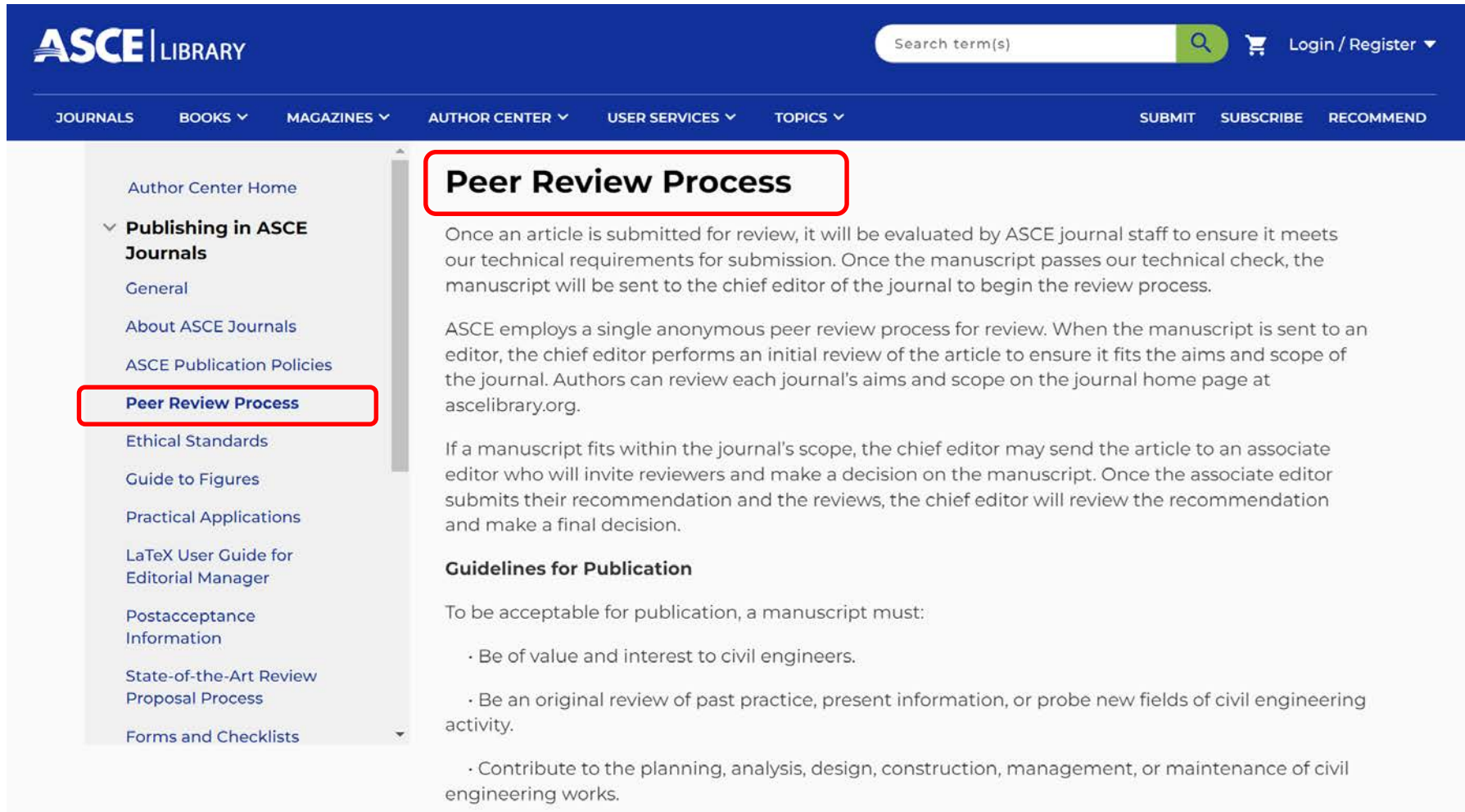


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