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ASCE

AMERICAN SOCIETY OF CIVIL ENGINEERS

美国土木工程学会介绍

ASCE学会——全球土木工程领域领导者

- 成立于1852年，是美国历史最悠久的工程学会。
- 在177个国家拥有超过15万名会员。
- 在规划、设计、建造、建筑环境以及保护和恢复自然环境等领域处于行业前沿。
- 技术和专业会议及继续教育提供商，世界上最大的土木工程内容出版商，以及保护公众的规范和标准的权威来源。
- 通过9个研究所发展土木工程技术专业，并在许多专业和公共重点项目中处于领先地位。

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该协会的专业机构和技术团体汇集了来自世界各地的志愿者，以提高该行业的技术、商业和专业知识。并通过会议、研讨班、同行评议的期刊、书籍、实践手册、研讨会、网络研讨会和共识标准来分享知识、经验和最佳实践。

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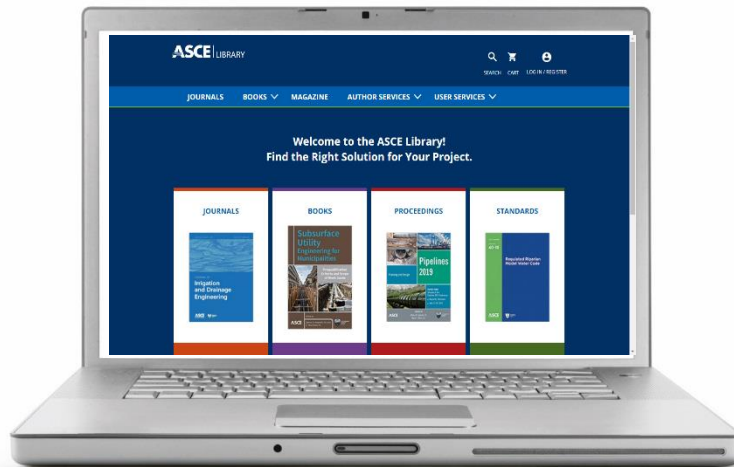
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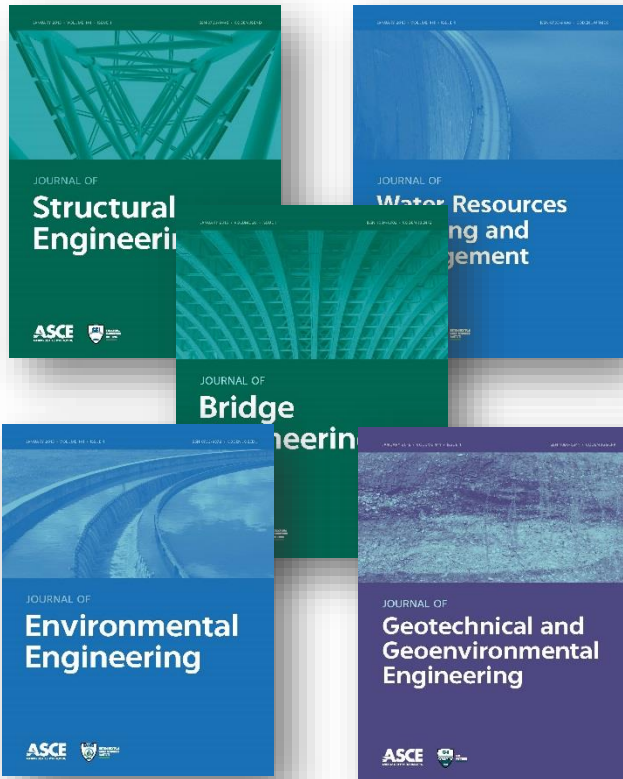
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Journal of Construction Engineering and Management	《建筑工程与管理期刊》	月刊
Journal of Materials in Civil Engineering	《土木工程材料期刊》	月刊
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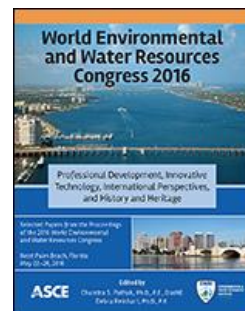
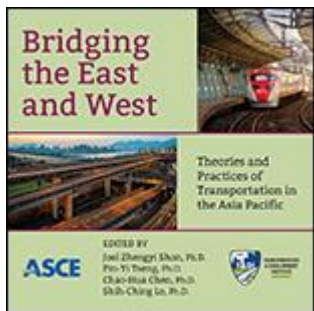
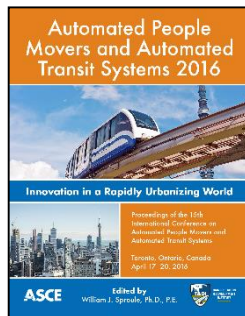
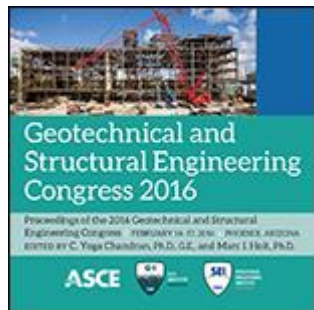
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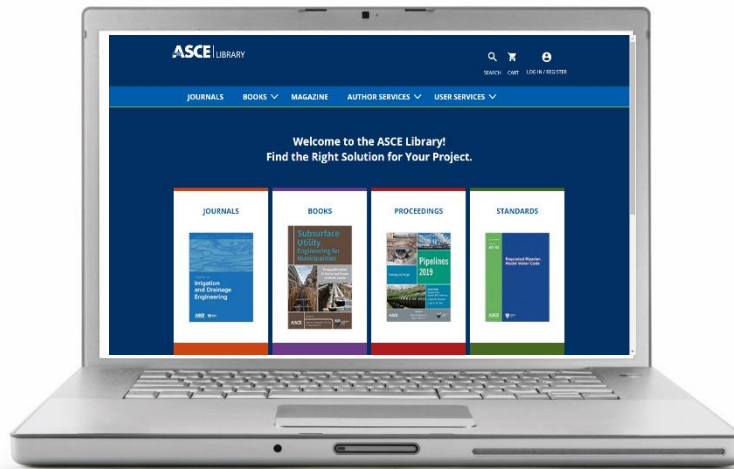
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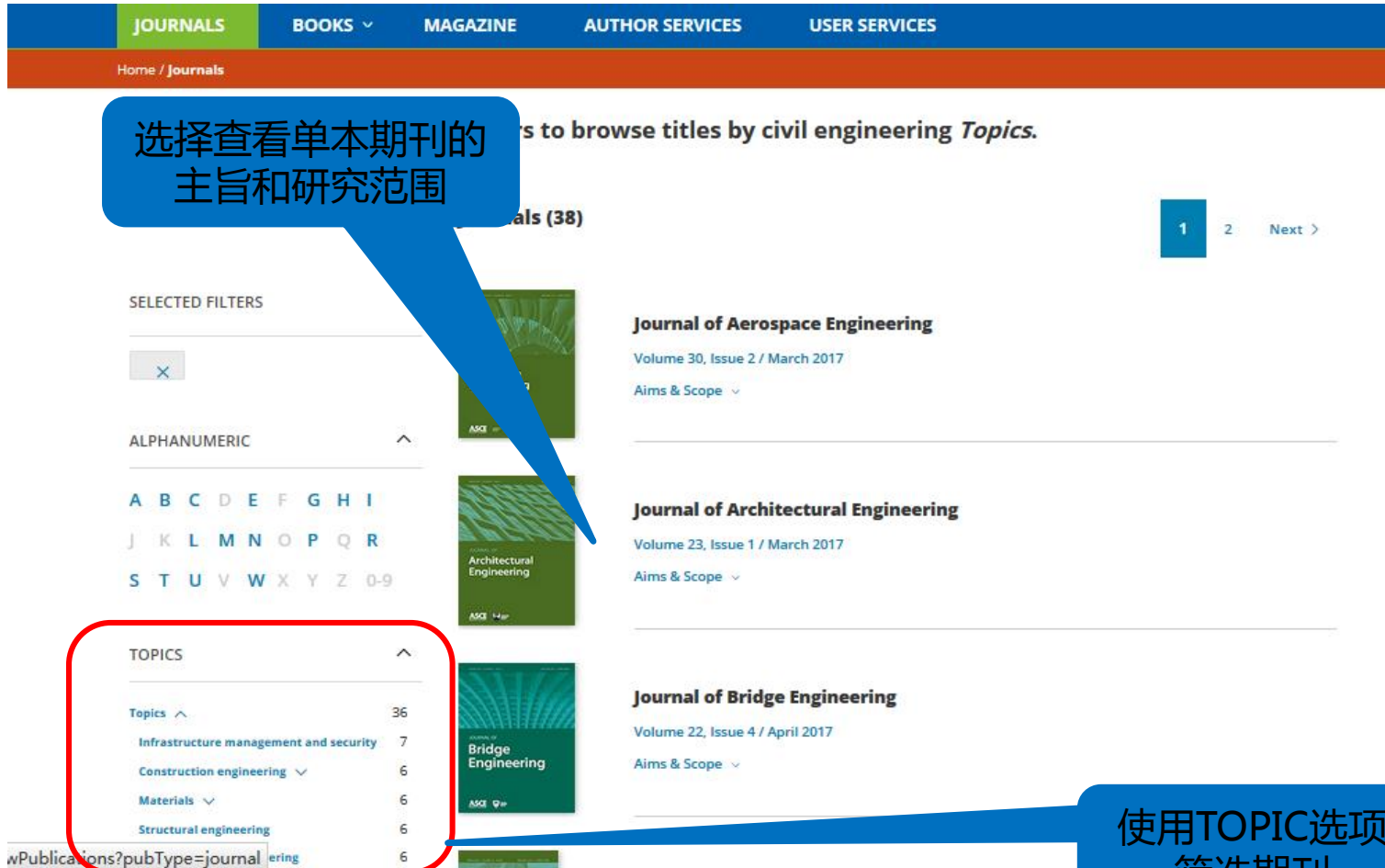
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TOPICS	Count
Topics	36
Infrastructure management and security	7
Construction engineering	6
Materials	6
Structural engineering	6
...	6

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Many sustainability rating systems have been developed to assess the sustainable development of the built environment.
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MARS: Metaframework for Assessing Ratings of Sustainability for Buildings and Infrastructure

Dean Papajohn, P.E., M.ASCE; Chris Brinker; and Mounir El Asmar, Ph.D., A.M.ASCE

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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 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 novel view by analyzing the sustainability rating systems themselves. A literature review highlights relevant theories, concepts, and processes used in the development of sustainable rating systems. A content analysis of 95 peer-reviewed articles identified 19 key criteria. These 19 criteria are used to create a metaframework that can be used to assess, improve, and validate existing systems, and may also serve as a basis to create new systems. A MARS scorecard is presented and its application

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Barriers Affecting the Adoption of Green Building Technologies, *Journal of Management in Engineering*.

Abstract

Many sustainability rating systems have been developed for the development of the built environment. This paper presents a new measure specific project sustainability rating system to help evaluate sustainability of knowledge by developing a new sustainability (MARS). In this paper, a high-level view by analyzing the literature review highlights the key frameworks of sustainability

MARS: Metaframework for Assessing Rating...



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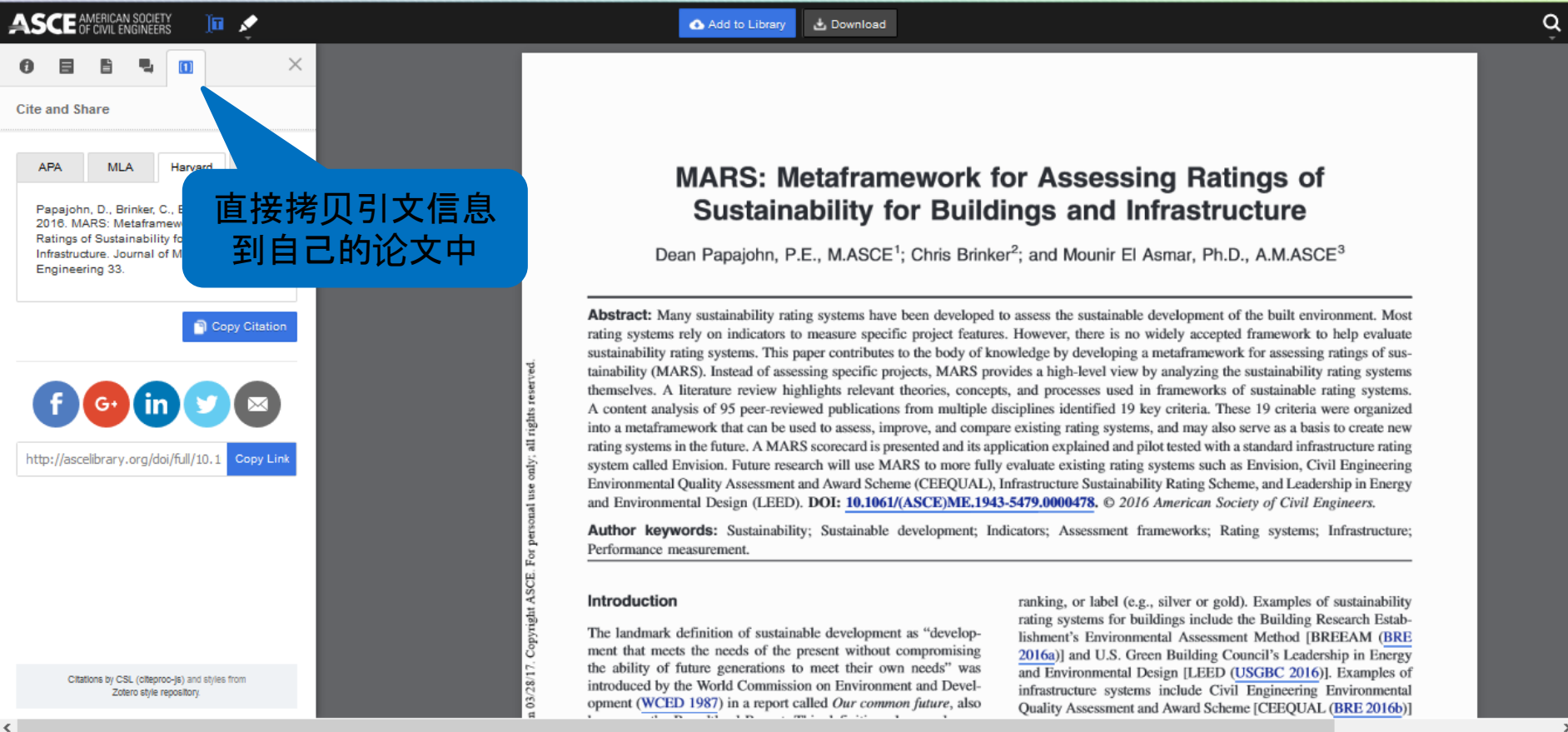
publications from multiple disciplines identified 19 key criteria. These 19 criteria were organized into a metaframework that can be used to assess, improve, and compare existing rating systems, and may also serve as a basis to create new rating systems in the future. A MARS scorecard is presented and its application

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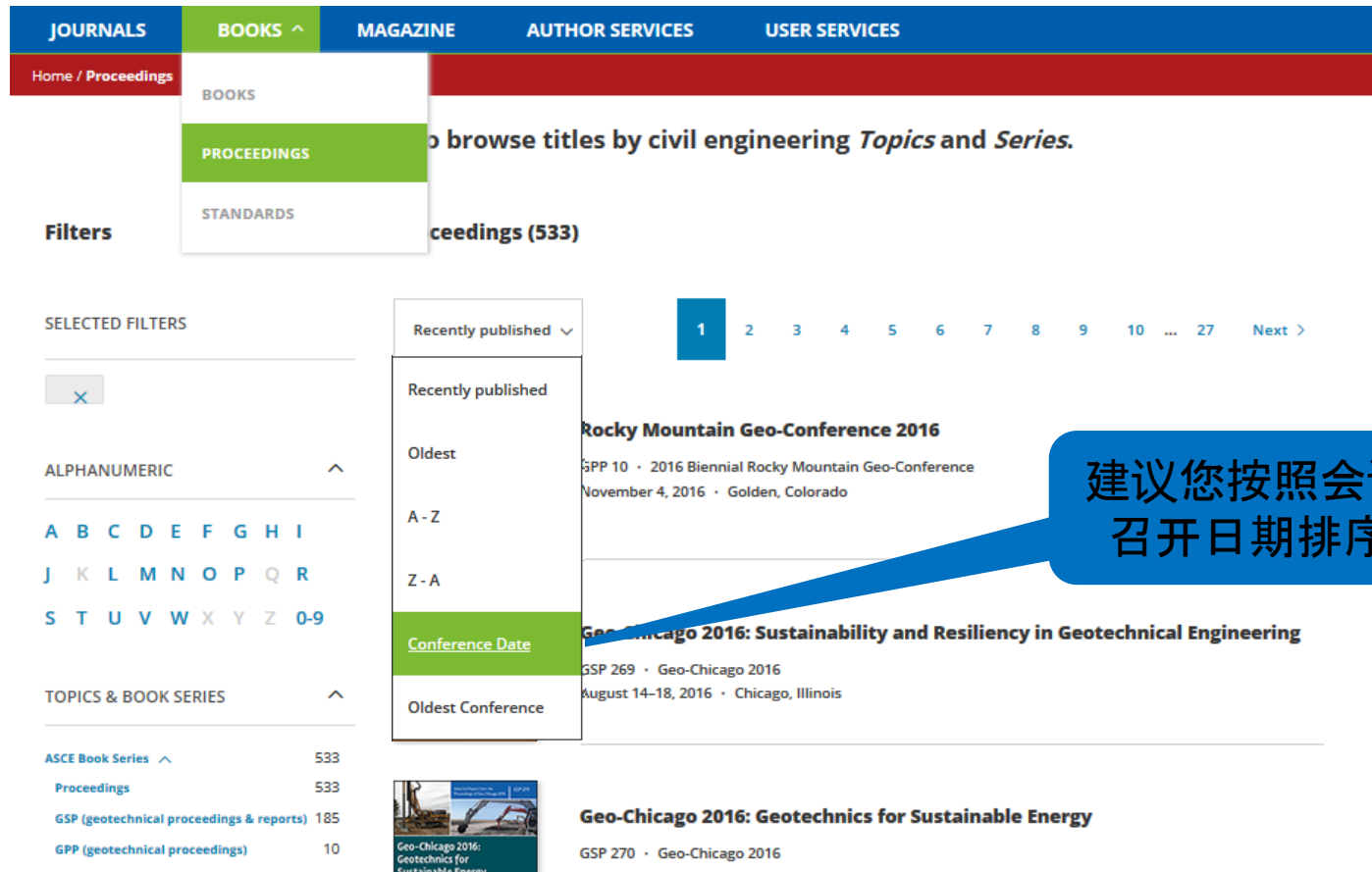
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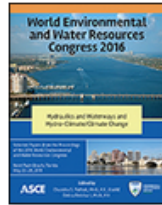
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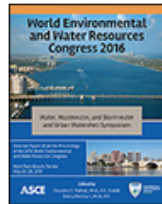
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
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AWWA (American Water Works Association). (1998). "Standard methods for the examination of water and wastewater." Water Environment Federation, Washington, DC.

Bas, D., and Boyacı, İ. H. (2007). "Modeling and optimization. I: Usability of response surface