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# 美国土木工程学会数据库使用指南



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# 目 录

- 出版社介绍
- 数据库内容和品质
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- 检索技巧

**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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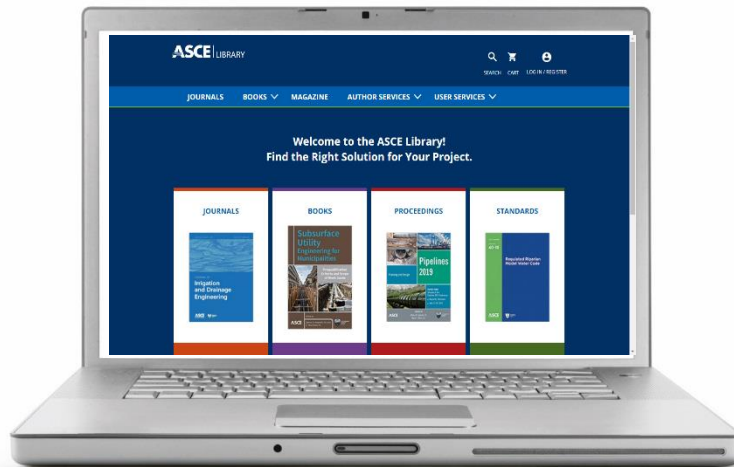
## ASCE学会——出版物

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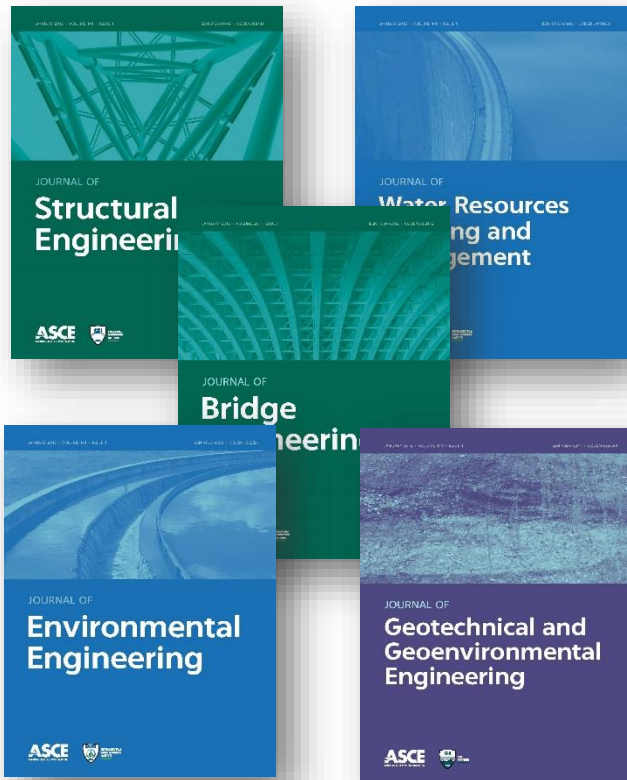
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## ASCE 期刊品质

- 35种核心期刊，28种被SCI收录，占总数约3/4。有25种期刊的影响因子超过1。
- 根据最新的期刊引用报告（JCR）：ASCE期刊平均影响因子连续五年增长。

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- 交通运输

Journal of Infrastructure Systems	《基础设施系统期刊》	季刊
Journal of Transportation Engineering, Part A: System	《运输工程期刊, A辑: 系统》	月刊
Journal of Urban Planning and Development	《城市规划与发展期刊》	季刊
Journal of Highway and Transportation Research and Development, English Edition	《公路交通科技》英文版	季刊
Journal of Transportation Engineering, Part B: Pavements	《运输工程期刊, B辑: 路面》	季刊

## ● 结构工程

Journal of Bridge Engineering	《桥梁工程期刊》	月刊
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Practice Periodical on Structural Design and Construction	《结构与施工实用期刊》	季刊

## ● 工程管理

Journal of Management in Engineering	《工程管理期刊》	双月刊
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- 工程力学

Journal of Engineering Mechanics	《工程力学期刊》	月刊
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- 海岸、海洋、港口、河流和水道

Journal of Waterway, Port, Coastal, and Ocean Engineering	《水路、港口、海岸和海洋工程期刊》	双月刊
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Journal of Construction Engineering and Management	《建筑工程与管理期刊》	月刊
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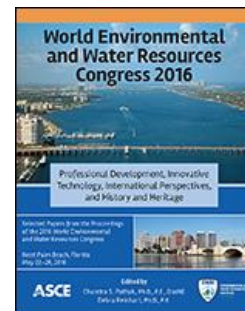
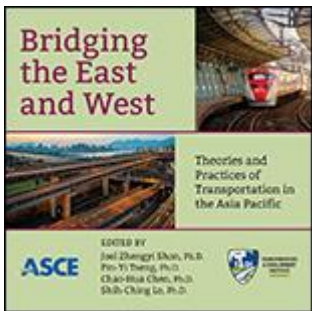
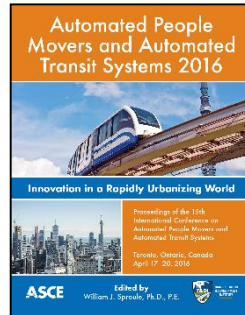
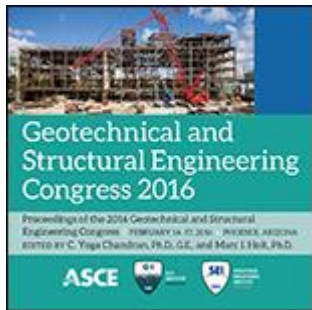
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Journal of Hazardous, Toxic & Radioactive Waste Management	《危险性、毒性和放射性废物管理实用期刊》	季刊

## ● 其他土木工程相关领域

ASCE-ASME Journal of Risk and Uncertainty in Engineering Systems, Part A: Civil Engineering	《ASCE-ASME工程系统风险和不确定性期刊，A辑：土木工程期刊》	季刊
Journal of Aerospace Engineering	《航天工程期刊》	双月刊
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结构工程  
可持续发展  
运输工程  
隧道和地下建设  
城市规划和  
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水资源  
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# ASCE 会议录——覆盖专业领域

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基础建设管理	53
生命线系统	5
建筑材料	39
路面	112
管线	21
港口建设	10
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可持续发展	43
交通运输	86
隧道和地下施工	44
城市规划和發展	27
水资源管理	66
航道	30



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- 发表关于土木工程成就和专业问题的记录。
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- 还包括关于法律问题、技术、道德和历史成就等专栏。

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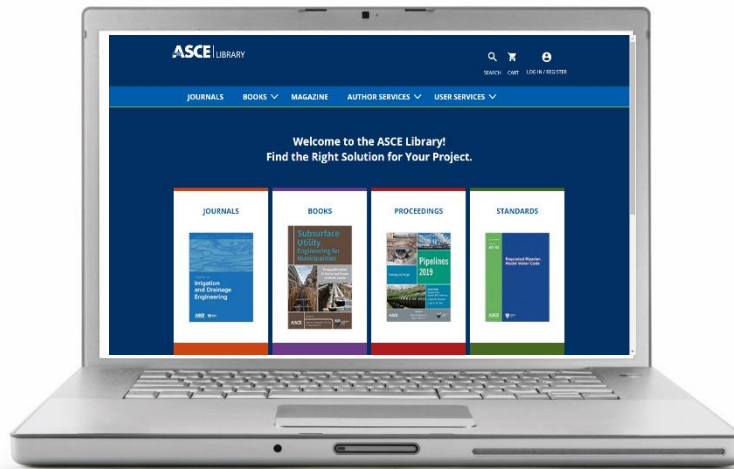
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## 电子书主题

- 建筑物设计、灾后重建、道路建设、管线工程、城市基建、环境和水资源规划（包括堤坝和港口建设）等话题。
- 体裁有：技术报告、名人传记、历史纪实、经验总结、操作指南、职场策略、会议录和电子书的投稿指南。



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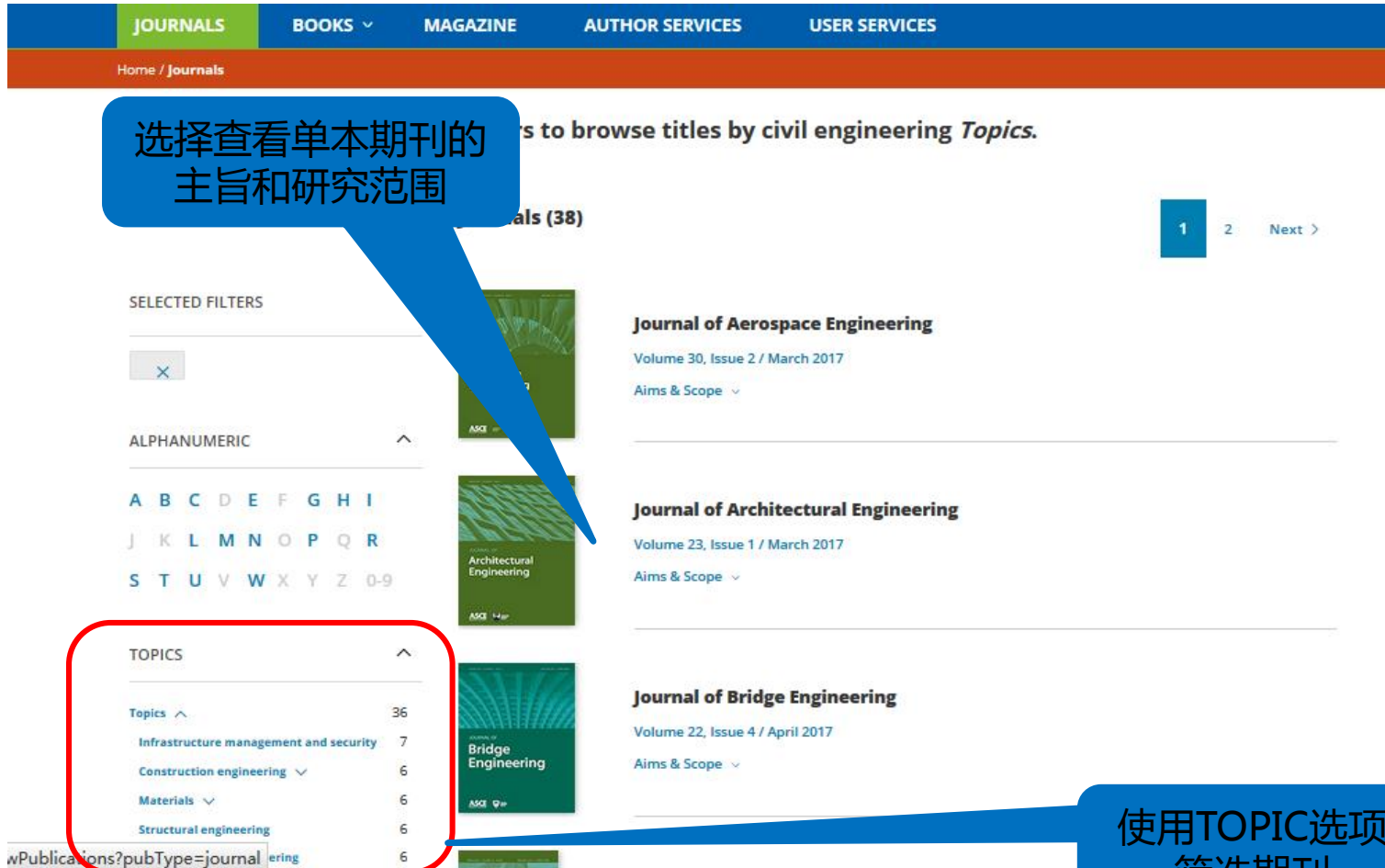


## ASCE 数据库平台概况

- ASCE 使用自己设计的数据库平台，收录其所有电子出版物。
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- 中国机构用户最多可访问 14.5 万篇文献（期刊、会议录、杂志、图书）。
- 2018 年全年中国高校用户下载量超过 88万。
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S T U V W X Y Z 0-9

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Topics	Count
Infrastructure management and security	36
Construction engineering	7
Materials	6
Structural engineering	6
Bridge Engineering	6

Journal of Aerospace Engineering  
Volume 30, Issue 2 / March 2017  
Aims & Scope

Journal of Architectural Engineering  
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Journal of Bridge Engineering  
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ISSN (print): 0742-597X | ISSN (online): 1943-5479  
Frequency: Bimonthly | Sponsored by Committee on Leadership and Management

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Perrenoud et al. | MAR 2017

#### Establishment of Growth Strategies for International Construction Firms by Exploring Diversification-Related Effects

#### Interorganizational Projects: Reexamining Innovation Implementation via IPD Cases

Esther Paik et al. | MAR 2017

### News

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

Many sustainability rating systems have been developed to assess the sustainable development of the built environment.  
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Kim, B. (2014). "Dynamic Control Thresholds of Earned Value Analysis and Reliable Early Warning." *J. Manage. Eng.*, 31(5), 04014077.

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Journal of Management in Engineering Volume 33 Issue 1 - January 2017

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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 rating systems, and may also serve as a basis to create new rating systems. A MARS scorecard is presented and its application

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Journal of Management in Engineering

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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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## MARS: Metaframework for Assessing Sustainability for Buildings and Infrastructure

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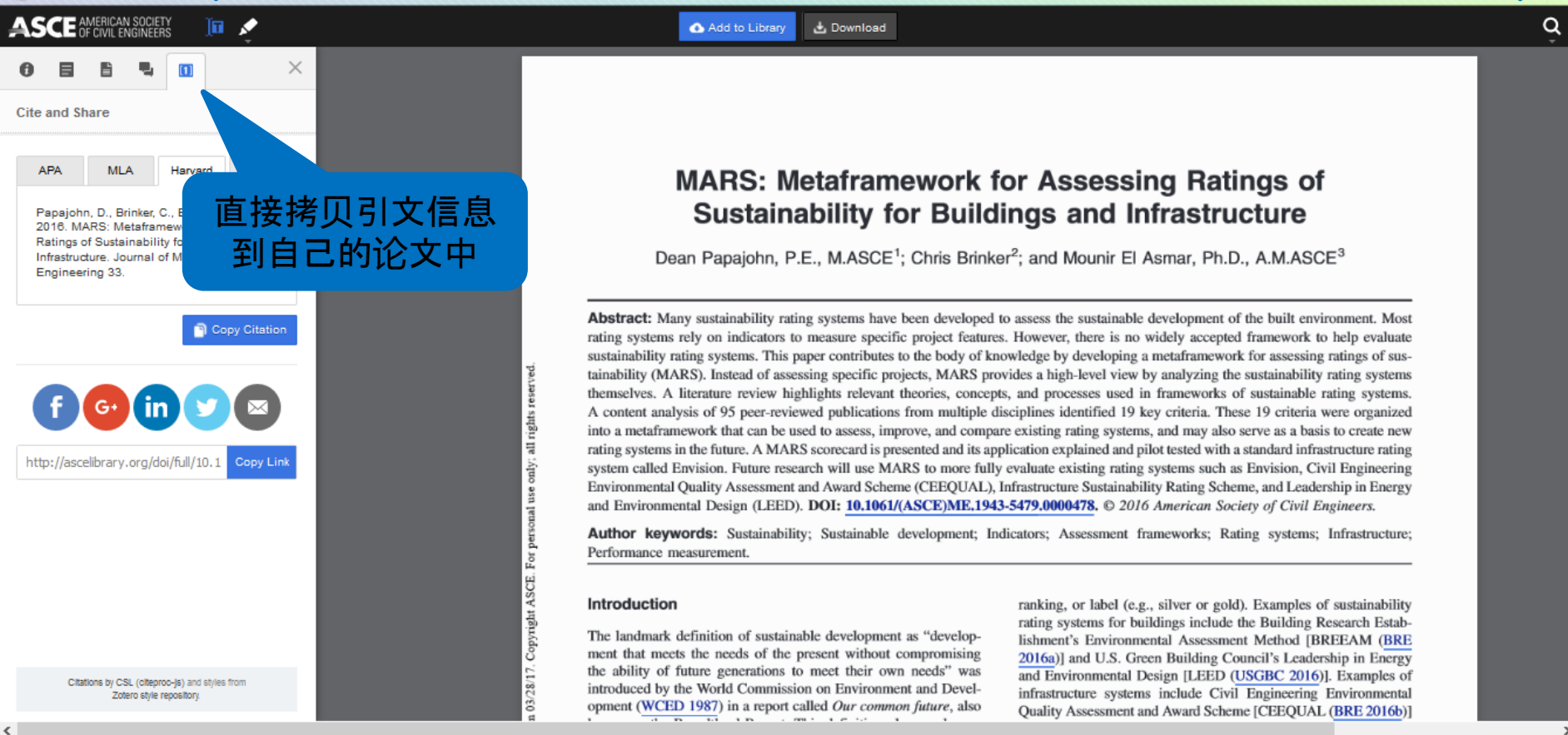
publications from multiple disciplines identified 19 key criteria. These 19 criteria were organized into a metaframework that can be used to assess, improve, and compare existing rating systems, and may also serve as a basis to create new rating systems in the future. A MARS scorecard is presented and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

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#### NEWS

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In advance of the new Chapter "Tsunami Loads and Effects" for the 2016 edition of the ASCE 7 Standard, Minimum Design Loads and Associated Criteria for Buildings and Other Structures, ASCE Library has made several articles available free with registration. [These articles](#) highlight the need for tsunami load design requirements for critical infrastructure.

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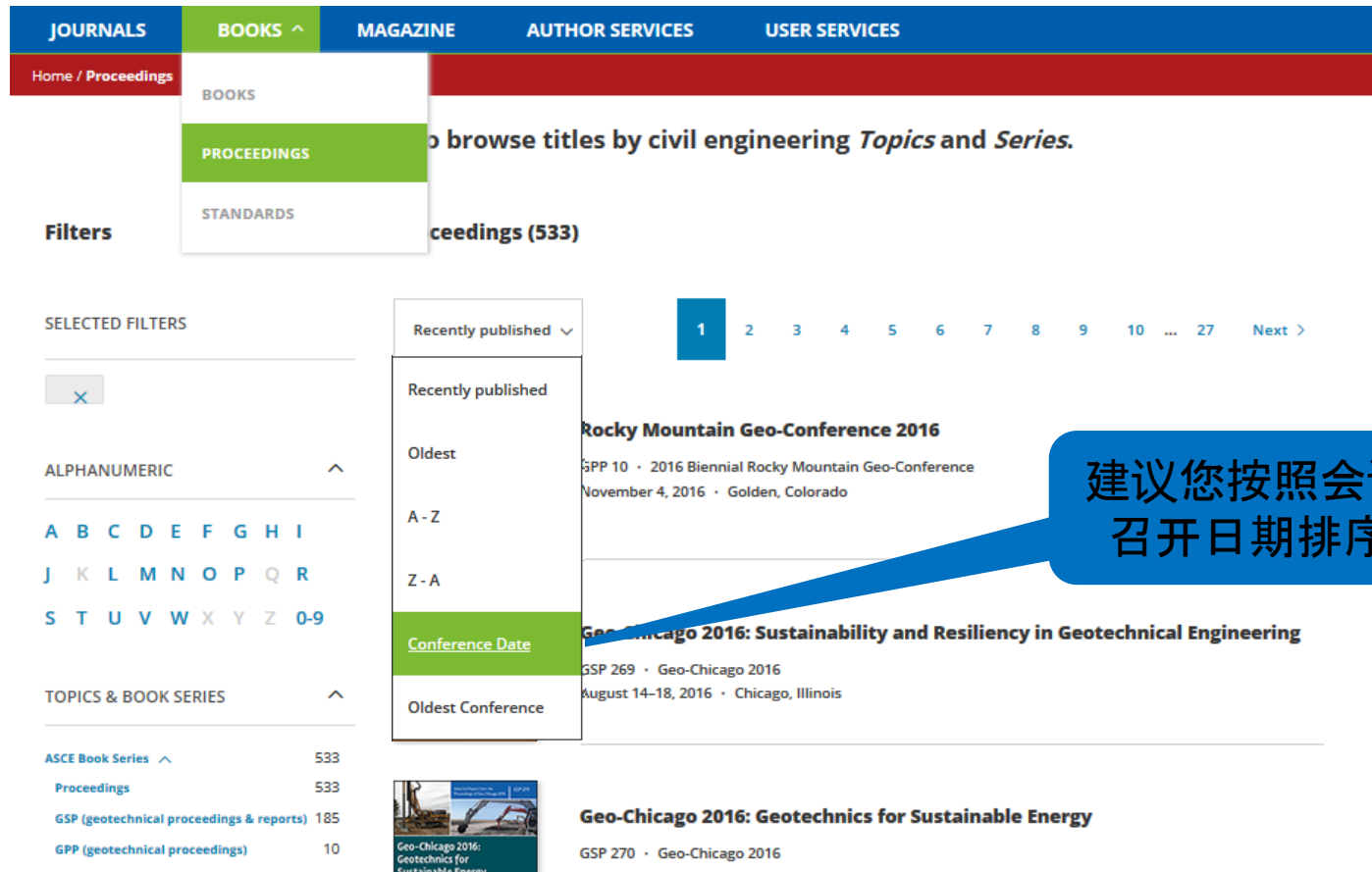
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## B. 会议录的浏览技巧



The screenshot shows the ASCE Library website interface. At the top, there is a navigation bar with categories: JOURNALS, BOOKS (selected), MAGAZINE, AUTHOR SERVICES, and USER SERVICES. Below this is a breadcrumb trail: Home / Proceedings. A dropdown menu for 'BOOKS' is open, showing options for BOOKS, PROCEEDINGS (highlighted), and STANDARDS. The main content area displays 'Proceedings (533)' and a list of conference proceedings. A 'Filters' section on the left includes 'SELECTED FILTERS' and 'ALPHANUMERIC' sorting options. A dropdown menu is open over the 'Recently published' filter, showing options: 'Recently published', 'Oldest', 'A-Z', 'Z-A', 'Conference Date' (highlighted), and 'Oldest Conference'. A blue callout box with a white border points to the 'Conference Date' option, containing the text: '建议您按照会议召开日期排序' (We recommend sorting by the date of the conference opening).

## B. 会议录的浏览技巧

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Aerospace engineering	1
Bridges	1
Civil engineering profession v	1
Coastal engineering	1
Cold regions	1



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World Environmental and Water Resources Congress 2016  
May 22–26, 2016 · West Palm Beach, Florida



### World Environmental and Water Resources Congress 2016: Water, Wastewater, and Stormwater and Urban Watershed Symposium

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World Environmental and Water Resources Congress 2016: Water, Wastewater, and Stormwater and Urban Watershed Symposium

按TOPIC筛选会议录

同一次会议的会议录按议程主题编成若干卷，可在红色标记下看见总目录

## 使用技巧

### C. 如何缩小检索范围？

在快速检索栏中输入文体标记词，例如survey、review、report或study。



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- Chapters/Proceedings Papers 23032
- Technical Note 1338
- Case Study 1027**
- Discussion 469
- Front Matter 397
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- State of the Art Review 53
- Introduction 52
- Corrections 51
- Legal Issues 28
- Book Review 23
- Technical Breakthrough Abstract 10
- Award 4
- Invited Paper 4
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- Letter 2
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SORT: RELEVANCE DATE

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SAVED SEARCHES

SEARCH NAME

[All: "report"] AND [Article Type: Case Study] AND [Publication Date: (01/01/2011... (426) nies

[All: "report"] AND [Article Type: Case Study] (444)

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**Development of a Road Monitoring and Reporting System Based on Location-Based Services and Augmented-Reality Technologies**

Journal of Performance of Constructed Facilities | December 2012 | Volume 26, Issue 6 (812 - 823)

Online publication date: August 03, 2011

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**Generate-Select-Check Based Daily Reporting System**

Journal of Computing in Civil Engineering | October 2005 | Volume 19, Issue 4 (412 - 425)

Online publication date: October 01, 2005

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## ASCE的常见期刊文章体裁有哪些？

Research Article	研究论文
Primary Opinion	原始观点
Case Report	案例报告
Brief Report	快报
Book Review	书评
Discussion	会议或讨论的结果
Chapter	会议录和电子书
Prelim	序言或目录的检索结果
Editorial	编者的话（介绍某期刊新一年发展方向和新编委成员）



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Journal of Professional Issues in Engineering Education and Practice | January 2016 | Volume 142,  
Online publication date: May 26, 2015

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### Calculation of Greenhouse Gas Emissions for Highway Construction Operations by Using a Hybrid Life-Cycle Assessment Approach: Case Study for Pavement Operations

Journal of Construction Engineering and Management | November 2011 | Volume 137, Issue 11 (1015 - 1025)  
Online publication date: January 08, 2011

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### Interpreting OPUS-Static Results Accurately

Journal of Surveying Engineering | November 2015 | Volume 132, Issue 4  
Online publication date: March 29, 2016

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### Developing Methods for Grading the Accessibility of a Community's Infrastructure

Journal of Urban Planning and Development | September 2012 | Volume 138, Issue 3 (270 - 276)  
Online publication date: February 03, 2012

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## 使用技巧

### C. 如何检索作者单位？

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或检索学校的邮政编码  
z.B: 211167=南京工程  
学院

Tenth International Conference of Chinese  
Transportation Professionals (ICCTP)

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## Research on the Key Problems of CFRP Cables for Cable-Stayed Bridges

Hua Zang ; Yong-ming Tu ; Kui-hua Mei ; and Wei Zhang

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z.B. : AIA=美国建筑师协会  
AWWA=美国用水协会

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The experimental setup for electrocoagulation montage used is given in Fig. 1. The influence of the various parameters on the denitrification process was achieved using synthetic water (distilled water +  $\text{NaNO}_3$  salt +  $\text{NaHCO}_3$ ) in a batch reactor shown in Fig. 1. The nitrate solutions (100–300 mg /L as  $\text{NO}_3^-$ ) were prepared by mixing sodium nitrate in deionized water samples. Solutions of 1 M sodium hydroxide swere added for pH adjustment. Nitrate concentration was determined using a UV spectrophotometer. Acidification with 1 M HCl is desired

DETAILS FIGURES REFERENCES RELATED

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



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Q & A