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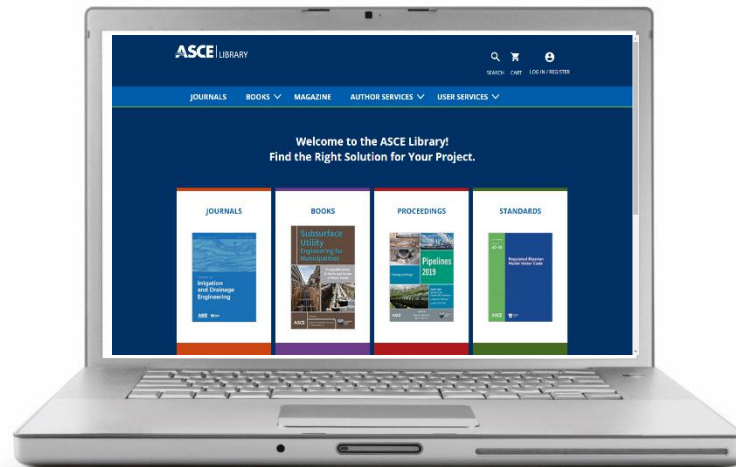
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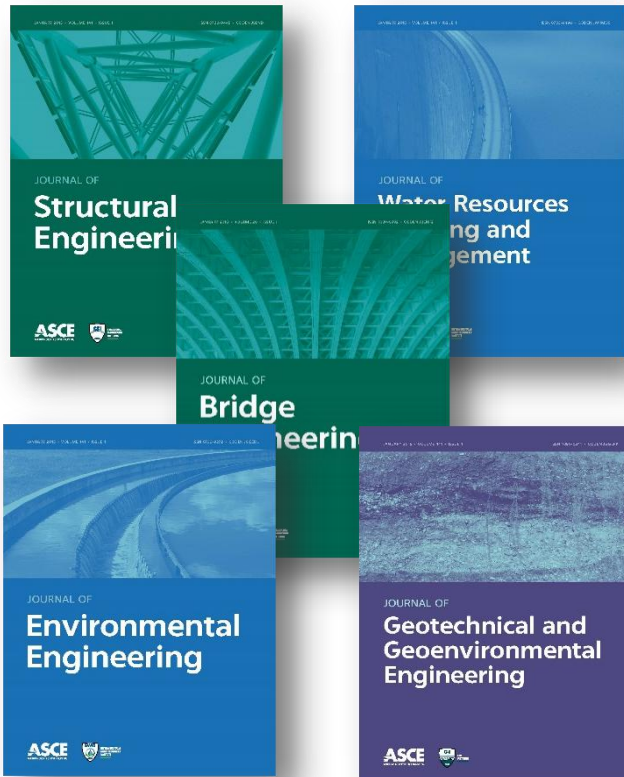
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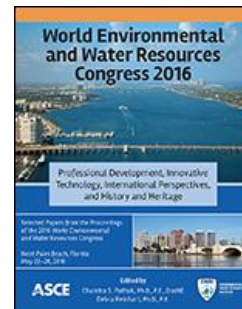
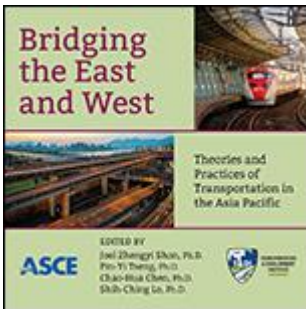
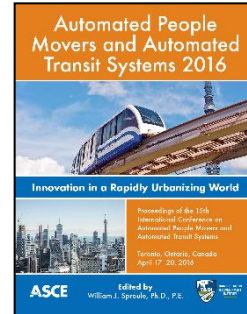
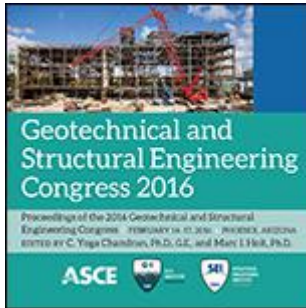
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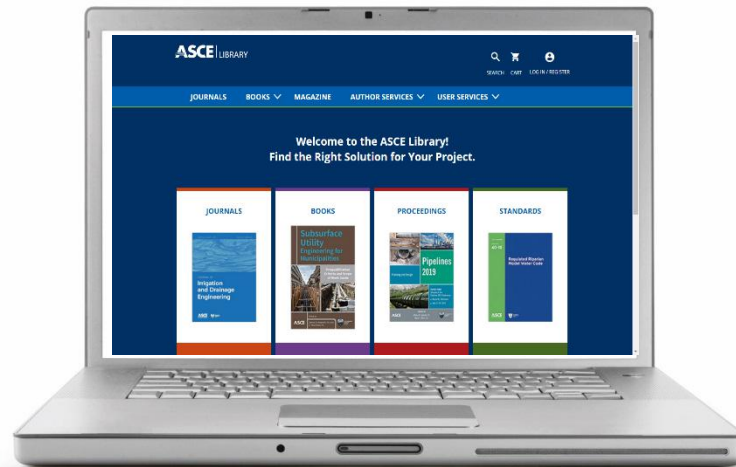
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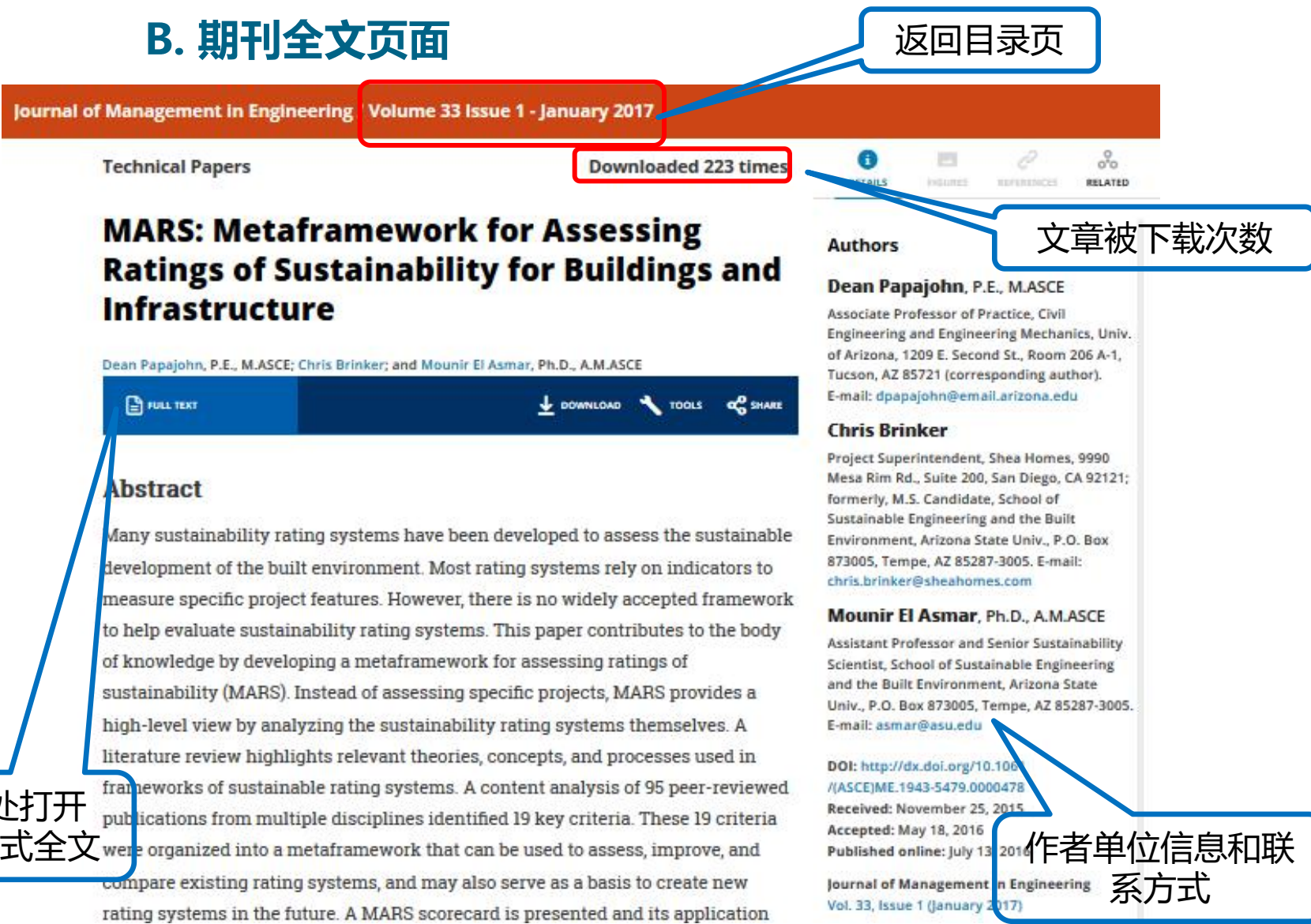
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MARS: Metaframework for Assessing Ratings of Sustainability for Buildings and Infrastructure

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 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

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DOI: [http://dx.doi.org/10.1061/\(ASCE\)ME.1943-5479.0000478](http://dx.doi.org/10.1061/(ASCE)ME.1943-5479.0000478)
Received: November 25, 2015
Accepted: May 18, 2016
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> PROBLEM STATEMENT

> RESEARCH METHOD

> DISCUSSION OF MARS CRITERIA

> EXPLORING MARS: HOW TO APPLY THE MARS SCORECARD

> PILOT TESTING MARS

> CONCLUSIONS

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Systems have been developed to assess the sustainable development. Most rating systems rely on indicators to assess sustainability. However, there is no widely accepted framework for assessing sustainability. This paper contributes to the body of knowledge on sustainability 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

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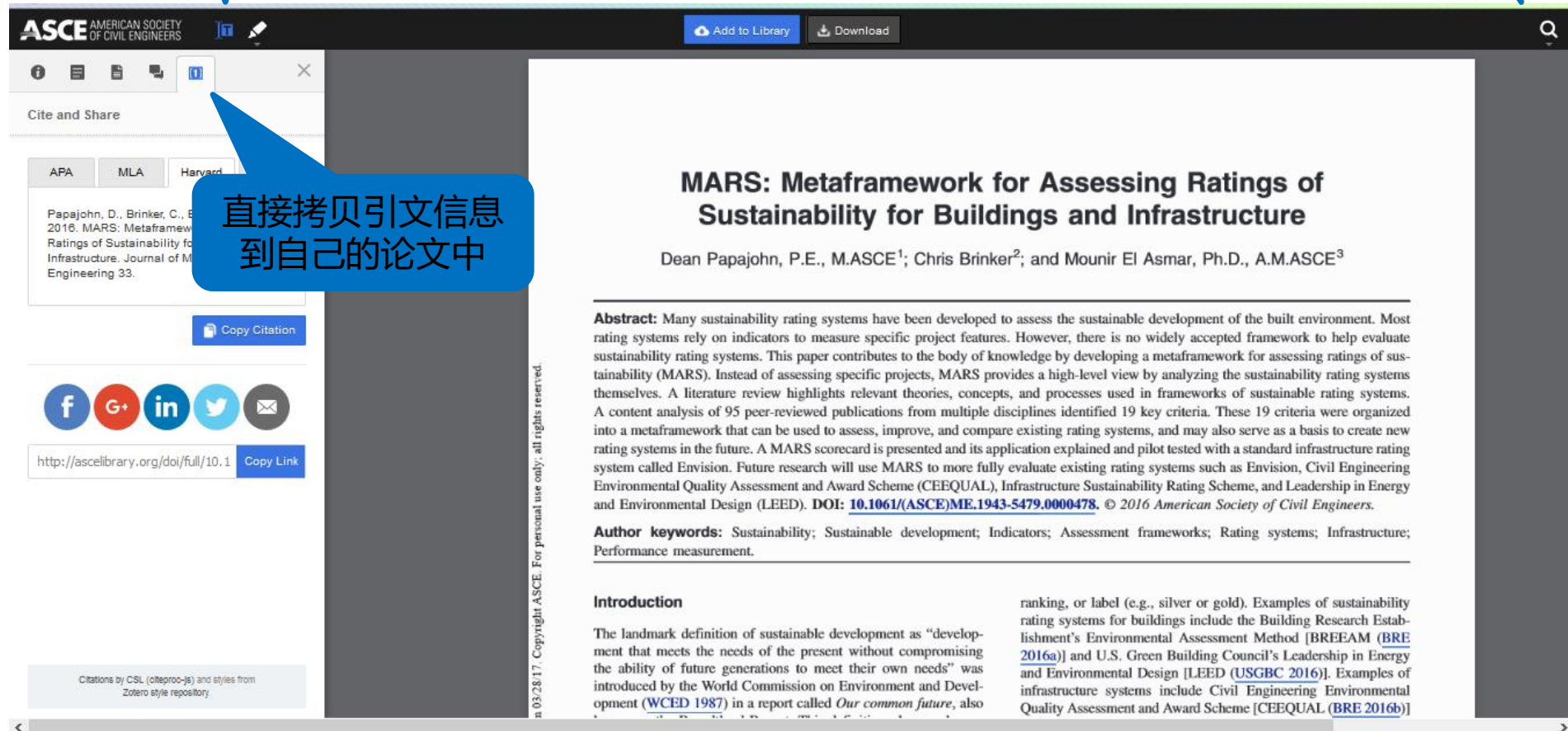
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Dean Papajohn, P.E., M.ASCE¹; Chris Brinker²; and Mounir El Asmar, Ph.D., A.M.ASCE³

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 ranking, or label (e.g., silver or gold). 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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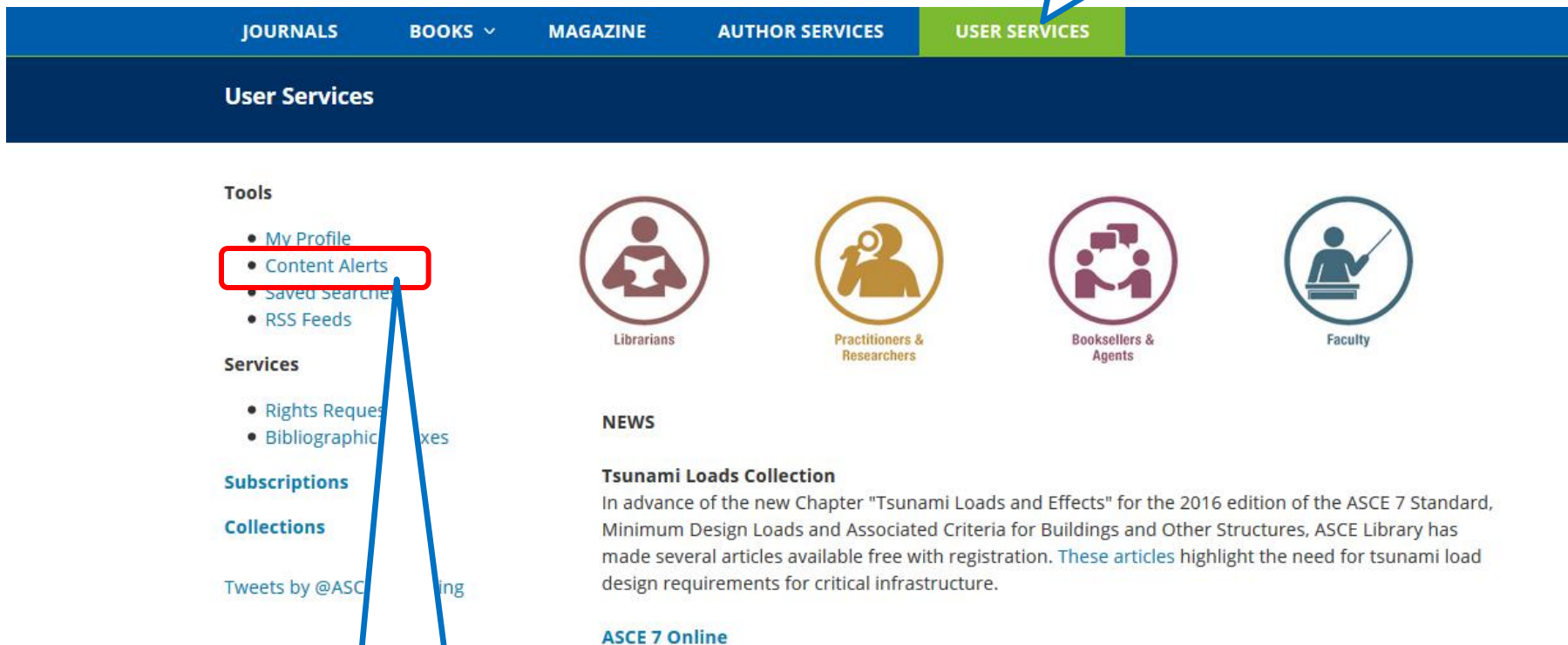


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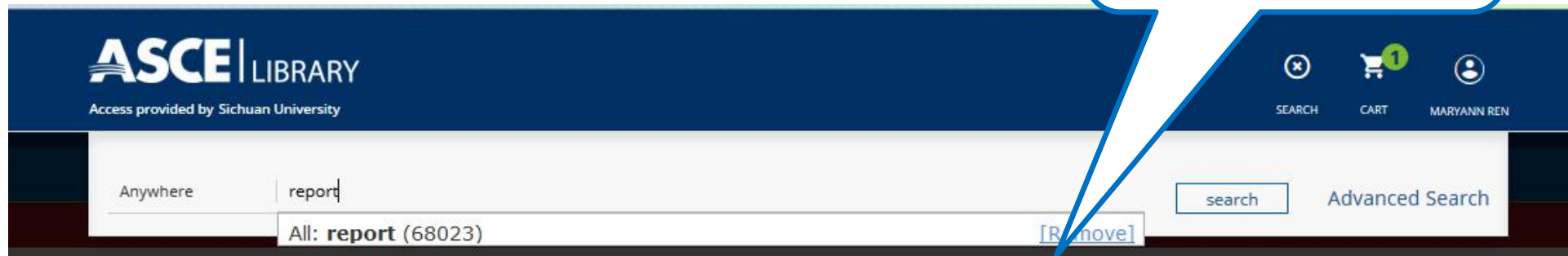
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在一次检索结果中筛选体裁

点击Refine, 可找到用过的检索式

ARTICLE TYPE ^ Refine v SORT: RELEVANCE DATE

Technical Paper	40063
Chapters/Proceedings Papers	23032
Technical Note	1338
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Award	4
Invited Paper	4
In Memoriam	2
Letter	2
Teaching Lessons Learned	2

REFINE SEARCH **SEARCH HISTORY** **SAVED SEARCHES**

SEARCH NAME

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

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

FULL ACCESS

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

See more v

FULL ACCESS

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

See more v

FULL ACCESS



2011

2017

TECHNICAL TOPICS

Case studies

151

Sustainable development

43

Hydrologic models

42

Developing countries

41

Rivers and streams

35

More (20) ▼

GEOGRAPHIC TOPICS

North America

95

United States

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Asia

81

China

41

Europe

38

Canada

12

Middle East

11

India

10

Journal of Professional Issues in Engineering Education and Practice | January 2016 | Volume 142, Issue 1

Online publication date: May 26, 2015

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FULL ACCESS

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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FULL ACCESS

Interpreting OPUS-Static Results Accurately

Journal of Surveying Engineering | November 2016 | Volume 142, Issue 4

Online publication date: March 29, 2016

See more ▼

FULL ACCESS

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)

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Topics

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z.B: Xidian=西安电子科技大学

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Published in	<input type="text" value="e.g. Journal of Aerospace Engineering"/>	
Publication Date	<input checked="" type="radio"/> All dates <input type="radio"/> Last: <input type="text" value="Select"/>  <input type="radio"/> Custom range: Year <input type="text" value="Year"/>  To: Year <input type="text" value="Year"/> 	

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RESULTS: 9 of 9

ARTICLE TYPE

Technical Paper

Chapters/Proceedings Papers

Technical Note

5

2

2

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Wang, Yaoqi

TECHNICAL TOPICS

Acetate

Corrosion

Synthetic materials

Absorption

Acids

Aggregates

Ammonia

Bridge components

Bridge failures

Bridge tests

Chemicals

Comparative studies

Gypsum

Hydration

Hydraulic models

Industrial facilities

Internet

Seismic loads

Sewage

Sewers

Three-dimensional models

Traffic capacity

Traffic delay

Traffic safety

Traffic signals

Modulating Water Absorption of Hardened Gypsum Plaster with Enhanced Molecular Modification of Polyvinyl Alcohol

Journal of Materials in Civil Engineering

November 2019 | Volume 31, Issue 11

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See more

New Approach to Interpret the Mechanical Behavior of Structured Soils

International Journal of Geomechanics

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Investigation on Ultimate Lateral Displacements of Coastal Bridge Piers with Levels along Height

Journal of Bridge Engineering

April 2021 | Volume 26, Issue 4

Online publication date: January 29, 2021

See more

Confinement Effectiveness of FRP in Retrofitting Circular Concrete Columns under Load

Journal of Composites for Construction

October 2010 | Volume 14, Issue 5 (531 - 540)

Online publication date: February 03, 2010

See more

PUBLICATION

Journal of Environmental Engineering

Journal of Materials in Civil Engineering

Proceedings

International Journal of Geomechanics

Journal of Bridge Engineering

Journal of Composites for Construction

2

2

2

1

1

1

PUBLICATION DATE

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2021

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如何检索江南大学ASCE 发文情况？

Journal of Materials in Civil Engineering / Volume 31 Issue 11 - November 2019

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Modulating Water Absorption of Hardened Gypsum Plaster with Enhanced Mechanical Strengths by Molecular Modification of Polyvinyl Alcohol

Zhuan-zhuan An; Zhuo-yu Zhou;  Yong-mei Xia; Di Xin [Show all authors](#)

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Abstract

In general, polymers that enhance the mechanical strength of gypsum plaster simultaneously decrease its water absorption capability. In this research, starting from polyvinyl acetate (PVAc) and polyvinyl alcohol (PVA), respectively, two groups of PVA-derived polymers were, partially hydrolyzed polyvinyl acetates (PHPVAs) and polyvinyl alcohol sulfates (PVAS). The modulation of mechanical strength and water absorption of gypsum plaster with PHPVA and PVAS was studied. Their structure-property relationship was investigated. Except for morphology, the influence of product structure on the mechanical properties of the hardened gypsum plaster was studied, including mechanical strengths, dynamic water absorption, hydration degree, and hydration temperature. The mechanical strength initially increased with increasing hydrolysis or sulfonation degree but eventually decreased. The water absorption capability was proportional to the hydrolysis degree but was not significantly related to sulfonation degree. PVAS are the optimum candidate for modeling material, whereas PHPVA is optimal for construction materials. By molecular modification of PVA, highly enhanced

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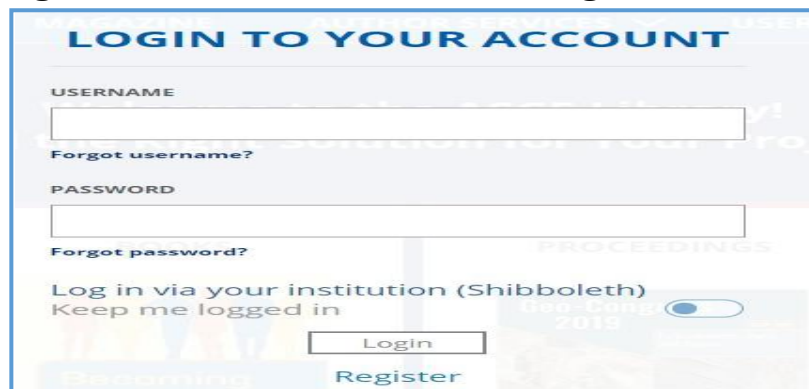
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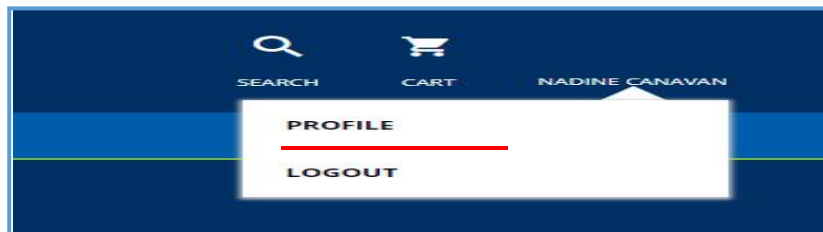
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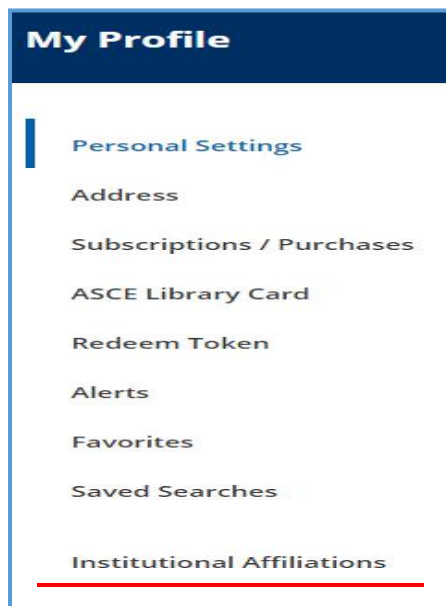
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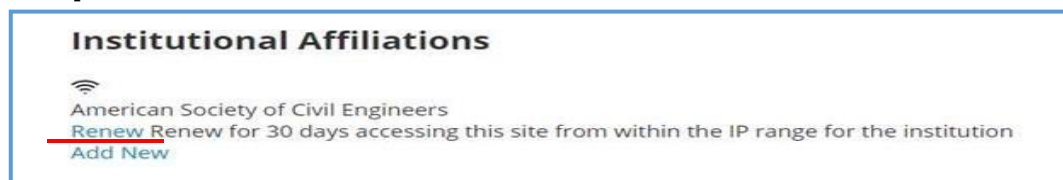
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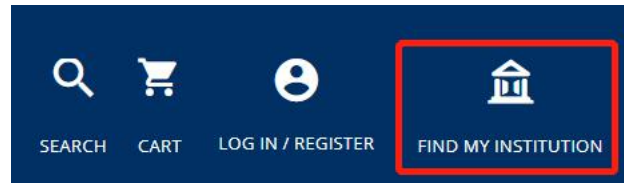
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ISBN (print): 9780784479018

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编辑部介绍某期刊新一年发展方向和新编委成员

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Errata, Retraction,,,

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Erratum for “Influence of Pedestrian Crosswalk Guidance Strategy on Traffic Efficiency and Exhaust Emissions” by Haofei Li, Yi Zhan, Yi Zhan, and Jie Qiu

CICTP 2019 (2019): pp. 4072-4084
doi: 10.1061/9780784482292.352

The author's names should appear as follows:

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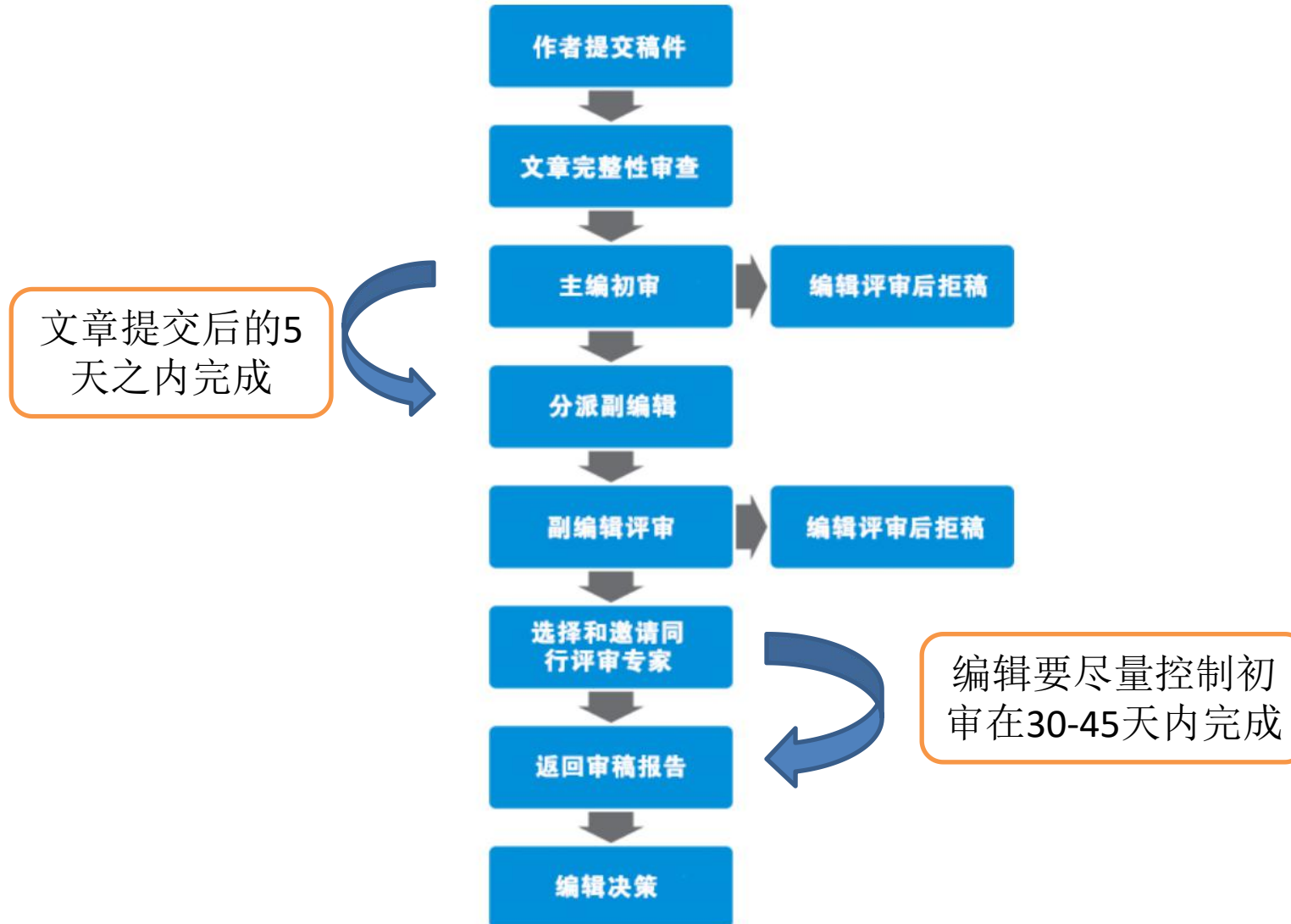
The authors regret this error.

Corrections

Retraction: Pan, E., Tabrizi, A., Sangghaleh, A., and Xia, K. (2013). “Stress Perturbation around a Fault by Hydraulic Fracturing.” *Int. J. Geomech.*, 10.1061/(ASCE)GM.1943-5622.0000358 (Sep. 5, 2013)

This paper is retracted at the request of the authors due to the discovery of errors made in the manuscript that invalidated the conclusions. The error was that the authors simulated the 2D fault as the line dislocation. Therefore, most formulations and figures need to be replaced. This manuscript was posted as part of the Posting Ahead of Print program, and as such, the final paper was never published in the journal.

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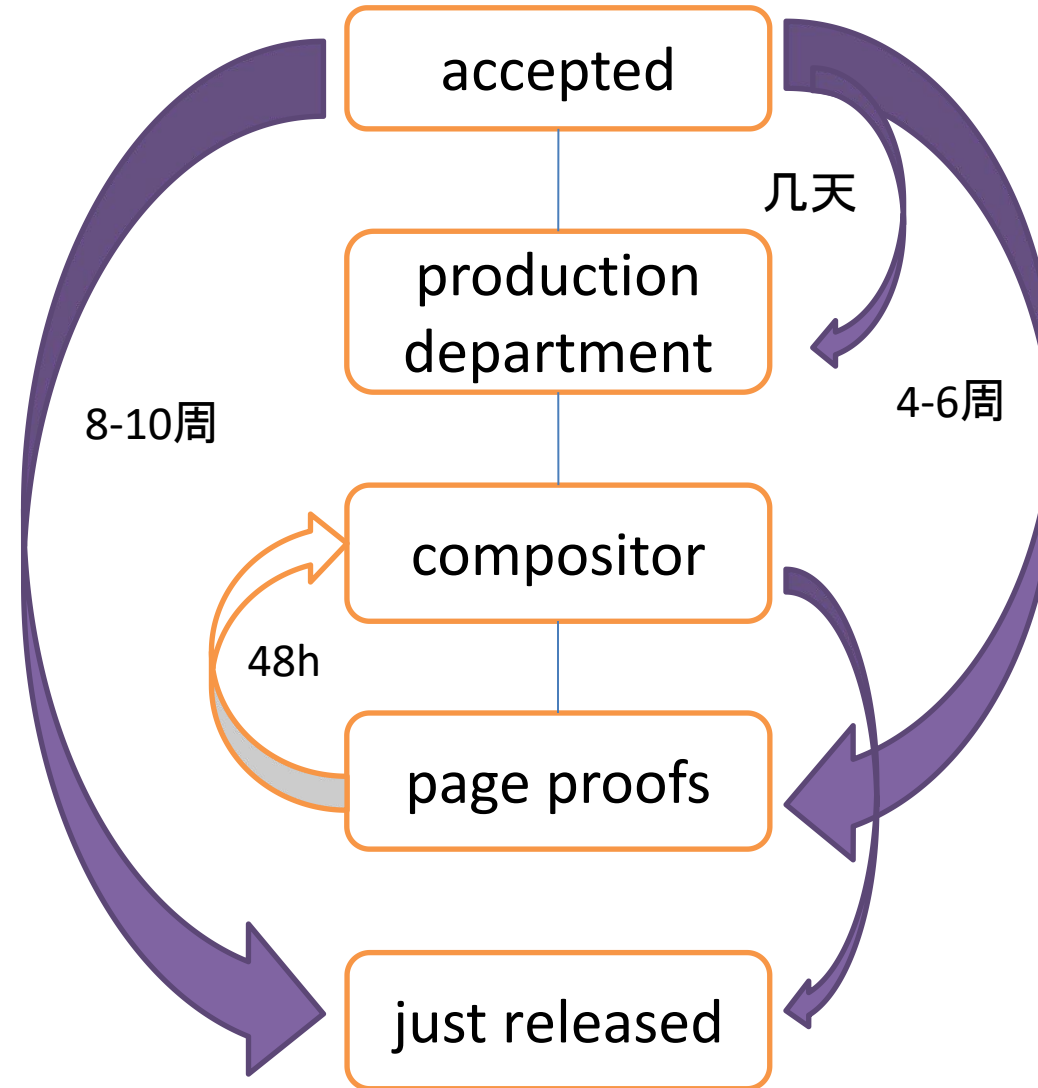
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Journal of Water Resources, Planning, and Management.

论文时态

用过去时来描述过去发生的事情：作者做了什么，某人报告了什么，实验中发生了什么，等等。用现在时来表达一般的事实，例如结论(由作者或其他人得出)和不受时间限制的事实(包括关于论文内容)。把将来时态留给对未来的展望：未来几个月或几年里会做什么。通常情况下，大多数句子将使用过去时态。

过去时：

We collected samples from...

Groves et al. (2009) determined the growth rate of...

Consequently, astronomers decided to rename...

The plots in Group A developed, on average, twice as much...

The sun rose at 6:23 a.m. on...

The conversion rate was close to 95%...

现在时：

Mesh size and choice of model parameters have a profound influence on...

The Reynolds number provides a measure of...

Smoking increases the risk of coronary heart disease...

The sun rises in the east...

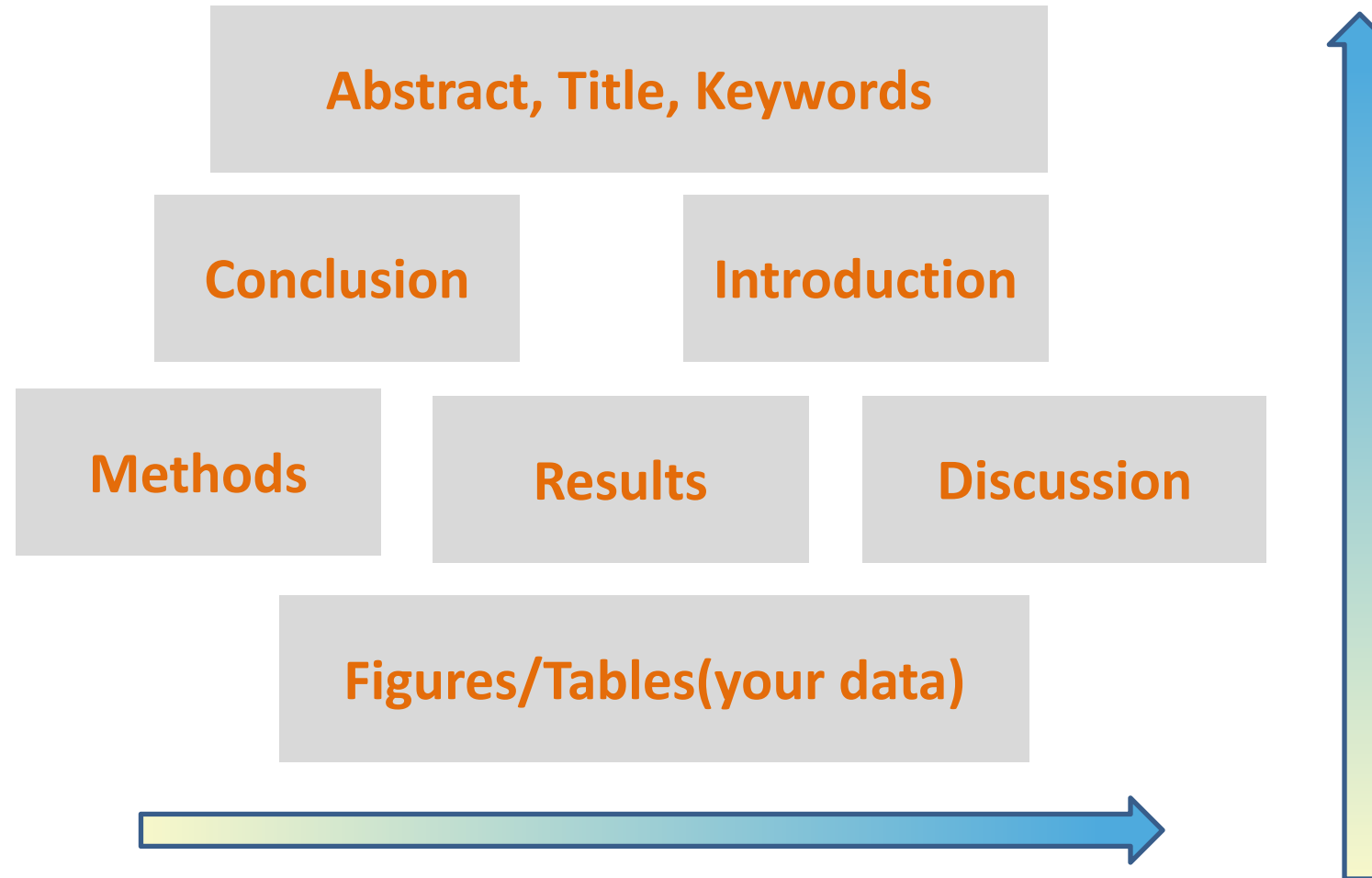
This paper presents the results of...

将来时：

In a follow-up experiment, we will study the role of...

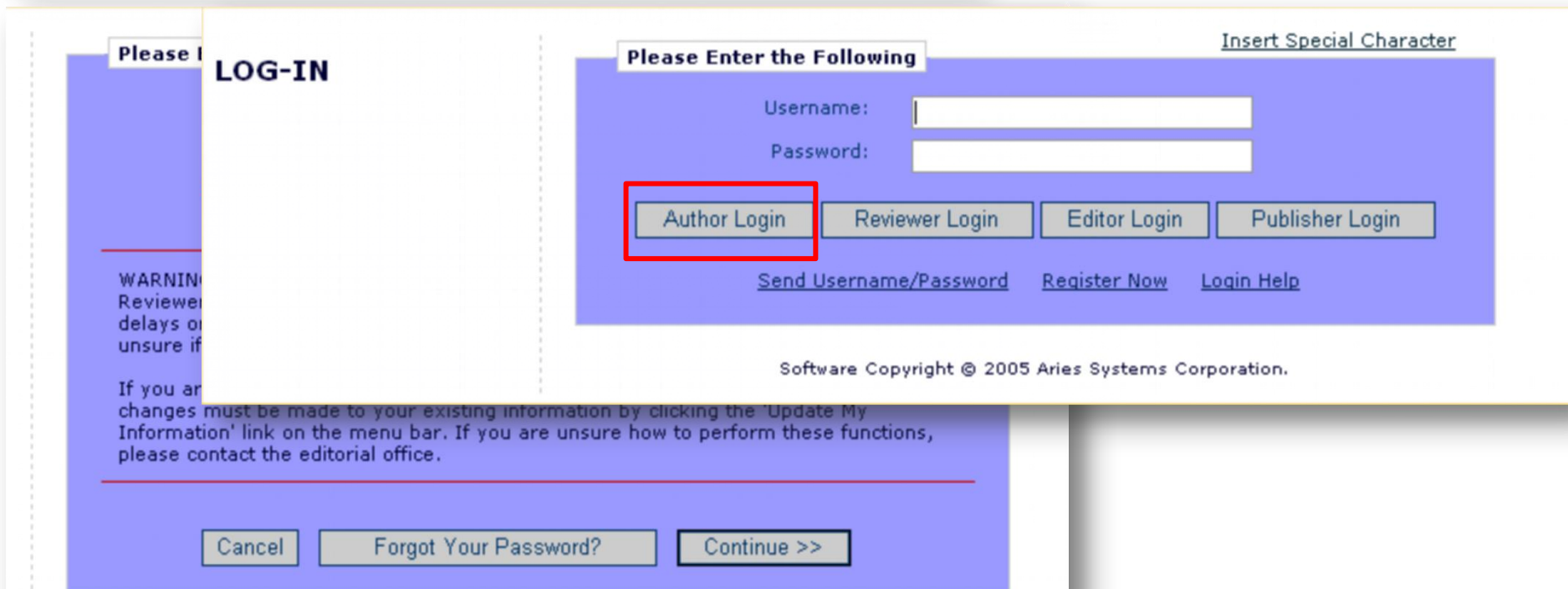
The influence of temperature will be the object of future research...

The Process of writing-building the article



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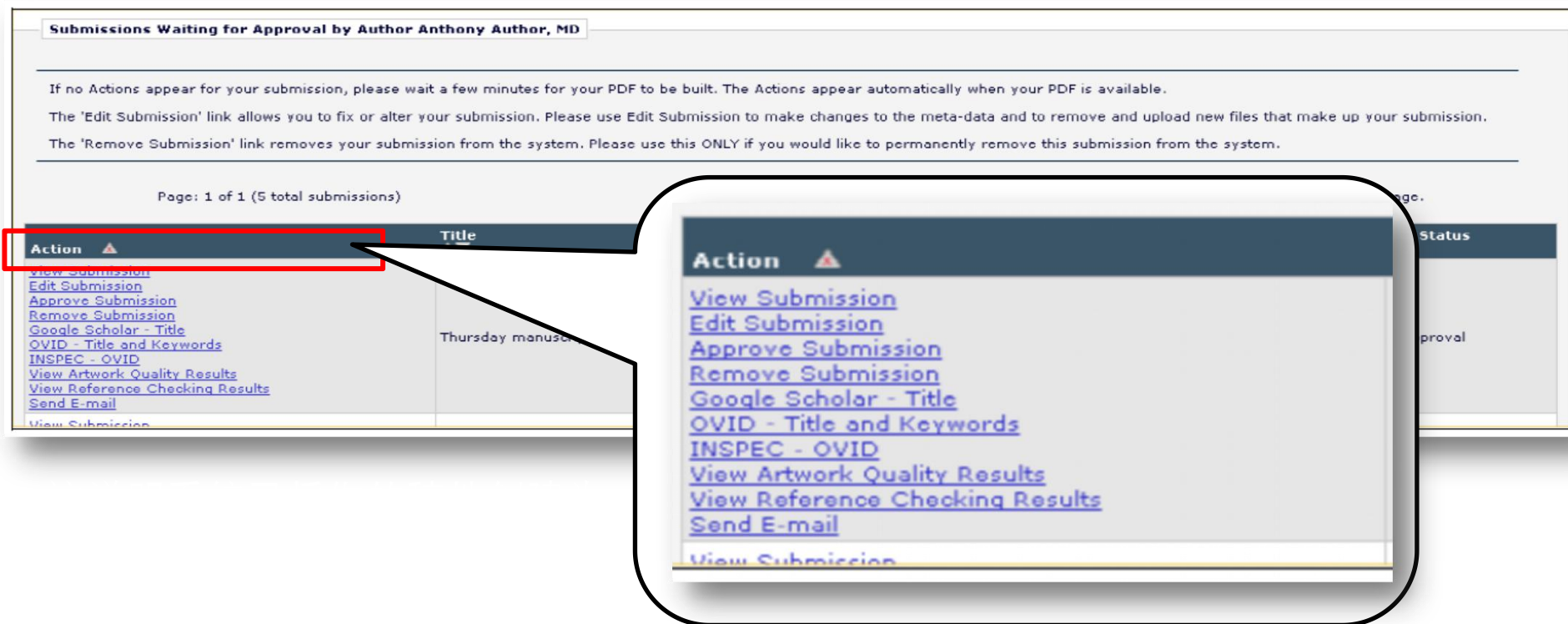
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Submissions Waiting for Approval by Author Anthony Author, MD

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The 'Remove Submission' link removes your submission from the system. Please use this ONLY if you would like to permanently remove this submission from the system.

Page: 1 of 1 (5 total submissions)

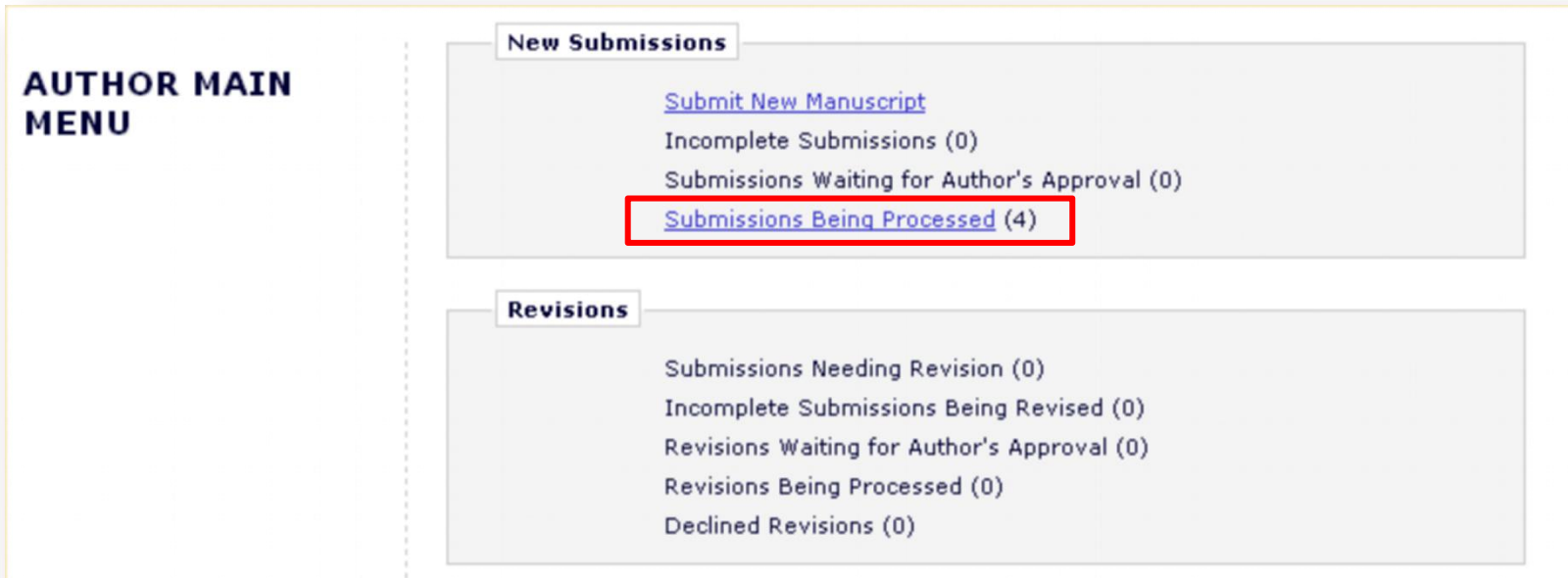
Action ▲	Title	Status
View Submission Edit Submission Approve Submission Remove Submission Google Scholar - Title OVID - Title and Keywords INSPEC - OVID View Artwork Quality Results View Reference Checking Results Send E-mail View Submission	Thursday manus...	approval

The callout shows the expanded 'Action' menu for the first submission, listing the following links:

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- [INSPEC - OVID](#)
- [View Artwork Quality Results](#)
- [View Reference Checking Results](#)
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追踪稿件

作者确认稿件PDF之后, 稿件就会出现在作者主界面的“Submissions Being Processed”部分。如下:



The screenshot displays the 'AUTHOR MAIN MENU' on the left. The main content area is divided into two sections: 'New Submissions' and 'Revisions'. In the 'New Submissions' section, the link 'Submissions Being Processed (4)' is highlighted with a red rectangular box. The 'Revisions' section lists several other submission statuses, all with counts of 0.

Section	Item	Count
New Submissions	Submit New Manuscript	
	Incomplete Submissions	0
	Submissions Waiting for Author's Approval	0
	Submissions Being Processed	4
Revisions	Submissions Needing Revision	0
	Incomplete Submissions Being Revised	0
	Revisions Waiting for Author's Approval	0
	Revisions Being Processed	0
	Declined Revisions	0

追踪稿件

点击 “Submissions Being Processed” 进入稿件列表来追踪其进展。

Title ▲▼	Initial Date Submitted ▲▼	Status Date ▲▼	Current Status ▲▼
test sub.	Nov 2 2005 10:45:24	Nov 2 2005 11:12:17	Under Review
Demonstration for Nature	Aug 8 2005 10:32:23	Oct 6 2005 3:14:13	Received by Editor
Case Report for ABPS	Aug 4 2005 3:18:07	Sep	Under Review
Letter to the Editor example for AACR			Received by Editor
My Clinical Guidelines paper			Received by Editor
USING TARGET FACTOR ANALYSIS METHOD FOR DETERMINING OF CONCENTRATION OF INDIVIDUAL AMINO ACIDS IN MIXTURE			Received by Editor
Part 2 of June 10th Demo			Under Review
June 10th Invitation.			Under Review
			Decision in

答复审稿人

点击Revise Submission上传自己修改过的稿件前，系统会出现Respond to Reviewers这个步骤。此时作者可点击文本框上的“**View Decision Letter**”，查看含有每个审稿人盲审意见的信息，并输入你对每一条意见的答复。如下：



The screenshot shows the 'Respond to Reviewers' interface. On the left, a sidebar contains a 'REVISED SUBMISSION' section with the ID 'JBJS-D-03-00812R1' and a 'Frequently Asked Questions' link. Below this is a list of submission steps: 'Select Article Type', 'Enter Title', 'Add/Edit/Remove Authors', 'Enter Keywords', 'Enter Comments', and 'Respond to Reviewers' (which is highlighted with a blue arrow). The main content area is titled 'Respond to Reviewers' and contains instructions: 'Please give your response to specific reviewer and editor comments in the box below. To see the comments, click the "View Decision Letter" link. You may select and copy the comments from there, and paste into the box below.' A red box highlights the 'View Decision Letter' link and a text area containing two numbered responses: '1. I will number the manuscript pages as requested.' and '2. I have removed all abbreviations from the Abstract.'

[Insert Special Character](#)

REVISED SUBMISSION

JBJS-D-03-00812R1

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- ✓ Select Article Type
- ✓ Enter Title
- ✓ Add/Edit/Remove Authors
- ✓ Enter Keywords
- Enter Comments
- ➔ Respond to Reviewers

Respond to Reviewers

Please give your response to specific reviewer and editor comments in the box below. To see the comments, click the "View Decision Letter" link. You may select and copy the comments from there, and paste into the box below.

[View Decision Letter](#)

1. I will number the manuscript pages as requested.
2. I have removed all abbreviations from the Abstract.

提交答复之后，方可再次上传根据同行评审意见修改过的PDF稿件。

稿件提交Checklist

File Types	
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	Tables: Microsoft Word or LaTeX; can also be part of the manuscript. If included in the manuscript text, the tables must be at the end.
	Figures: BMP, EPS, PDF, PS, or TIF/TIFF formats. NOTE: PDF files should have the fonts embedded; however nonembedded fonts that are crisp/clear are also acceptable.
	Figure Captions: Microsoft Word or LaTeX; can also be part of the manuscript text. If included in the text, must be at the end after any tables.
	Supplemental Materials (if present). In general, Supplemental Materials files should be in file formats that are universally acceptable and can be easily opened on most computers without special software. <ul style="list-style-type: none"> • Supplemental text and tables files should be in Microsoft Word or PDF; Supplemental figures can be in any format, but all figures should be in one file (example: one PDF file, one Word doc). • Other acceptable file types: Video/animation: Quicktime (.avi, .qt, .mov), MPEG (.mpg, .mp4), DV (.dv), .gif; and .txt. Acceptable audio formats: .pcm, .wav, .aif, .mp3
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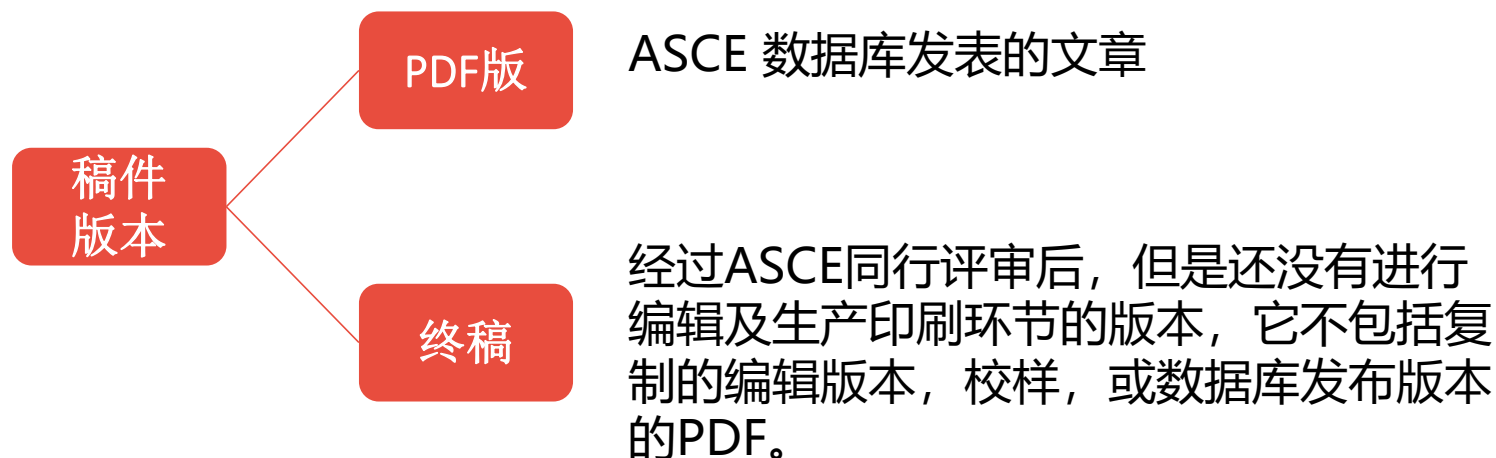
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