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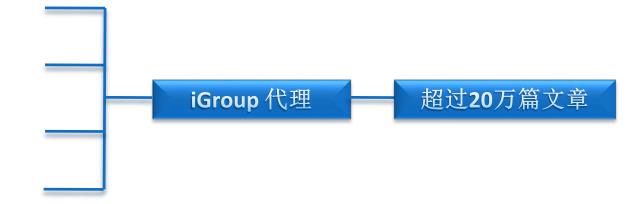
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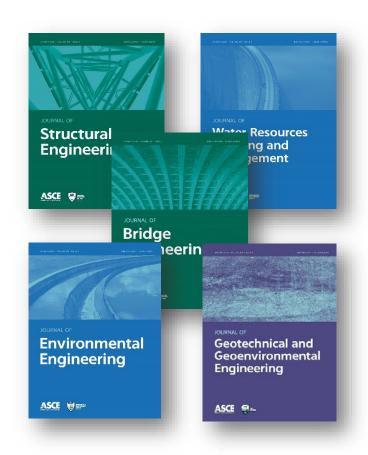
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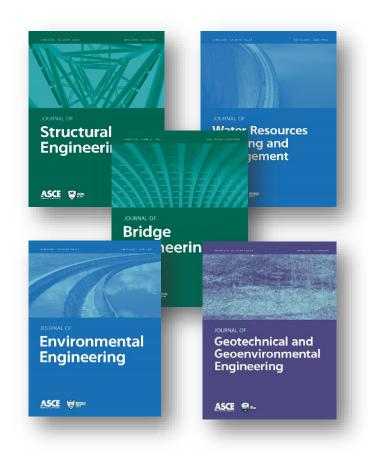
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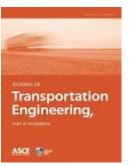


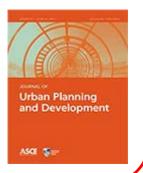
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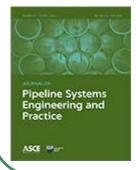


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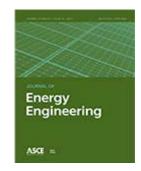


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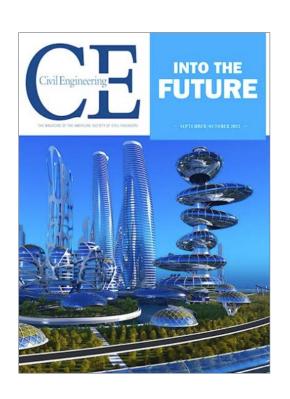
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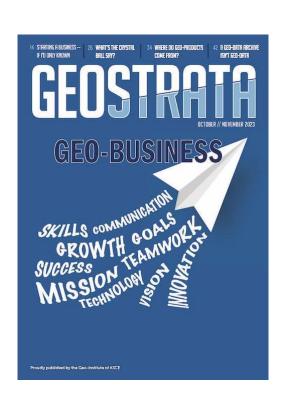
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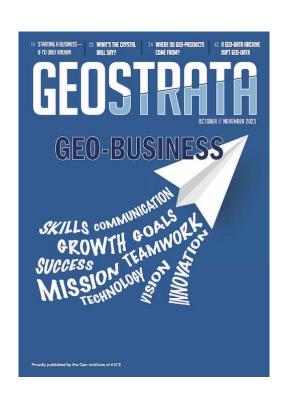
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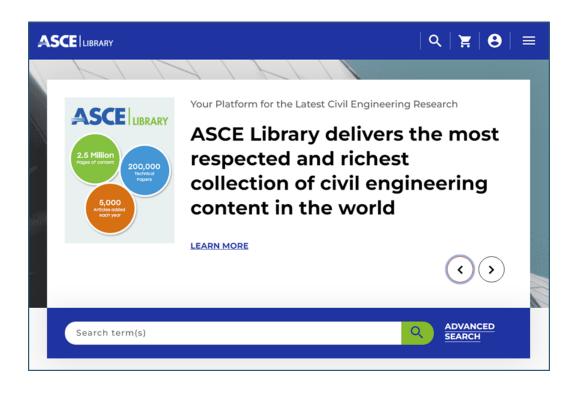
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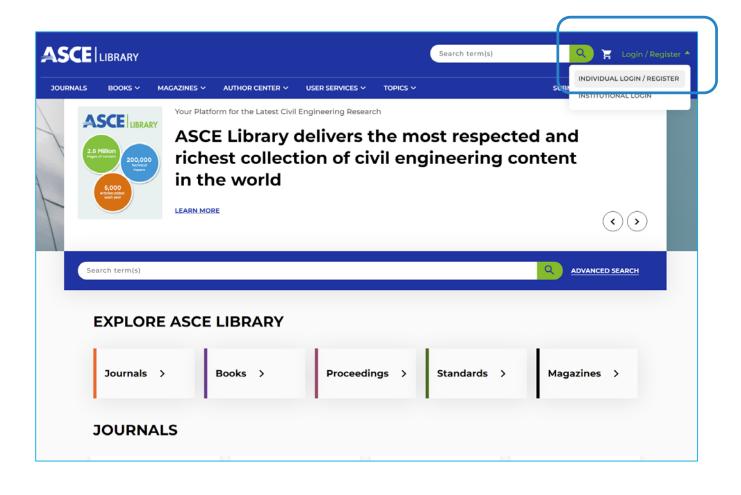
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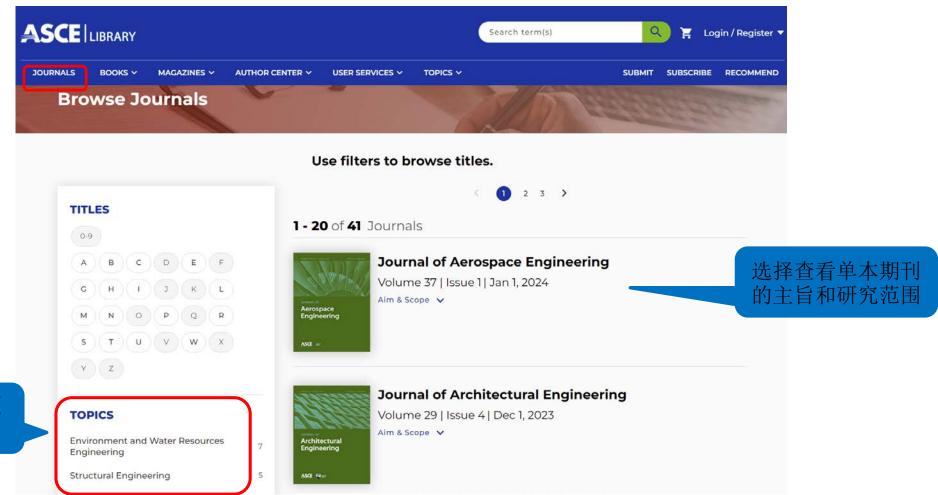
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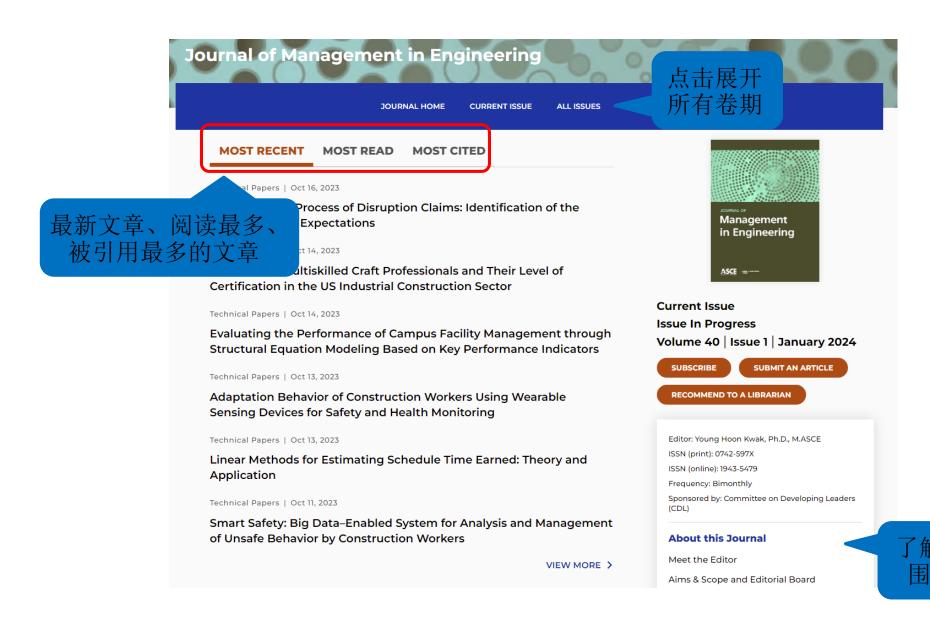
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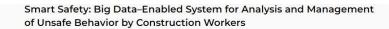


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Home / Journal of Management in Engineering / Archive / Vol. 36, No. 6 **PREVIOUS ARTICLE NEXT ARTICLE** Check for updates Technical Papers | Sep 8, 2020 Modular Construction: Determining Decision-Making Factors and Future Research Needs Authors: Mohamad 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 **№** 3.317 / 46 77 作者单位信息 Abstract 和联系方式 Journal of Management With a compound ular construction market is forecasted to increase to a in Engineering market value of \$154.8 million by the end of 2023. Traditional stick-built construction and modular construction Volume 36, Issue 6 differ in many aspects including design, engineering, collaboration requirements, logistics, and others. Available November 2020 research efforts tried to study and model the complex modular construction processes. However, they seemed to Abstract __ 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 *** Research Motivation diverse and multiple interconnected and associated factors. This paper develops a comprehensive list of decision Research Goal, Scope, factors as well as determines future research needs for modular construction. As such, the authors (1) conducted and Outcomes a systematic literature review and analysis of modular construction studies that were conducted between 2009 Background Information and 2019, (2) highlighted the broad factors affecting decision-making in modular construction projects, and Research Methodology (3) utilized social network analysis (SNA) to quantitatively identify the literature gaps and strengths and create a Results and Analysis 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 Recommendations for Future Modular are some understudied decision factors, including those related to legal and regulatory considerations, material Construction Research and construction waste management, green practices, as well as commissioning and testing. Further, it was Research Contribution and Limitations

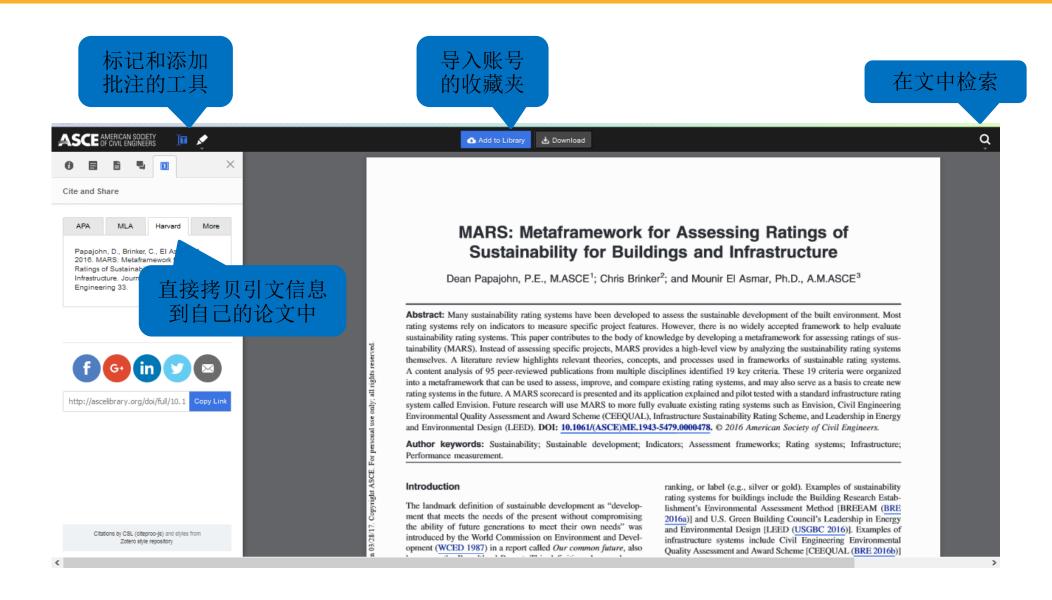
shown that there is an explicit absence of the decision models and frameworks that simultaneously incorporate

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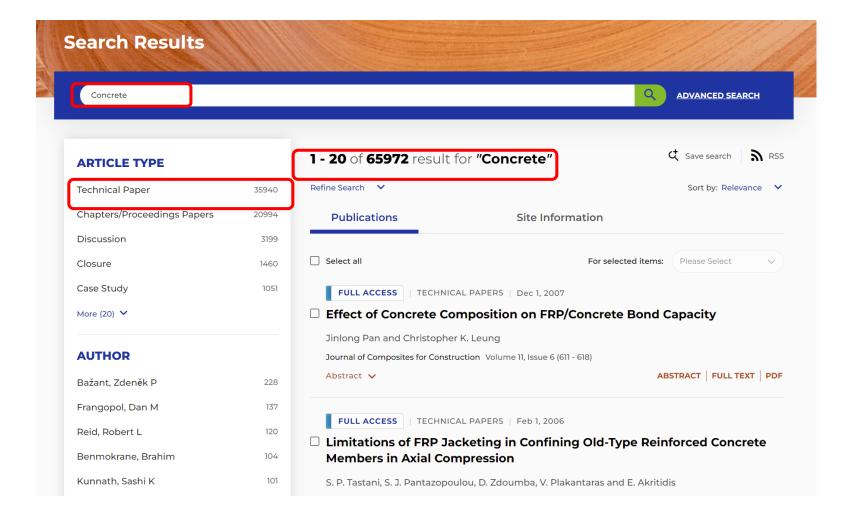


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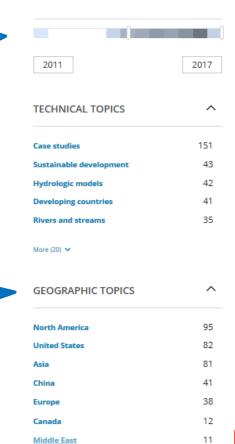
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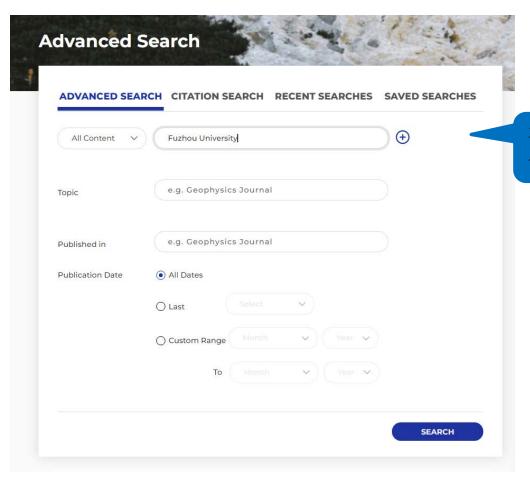
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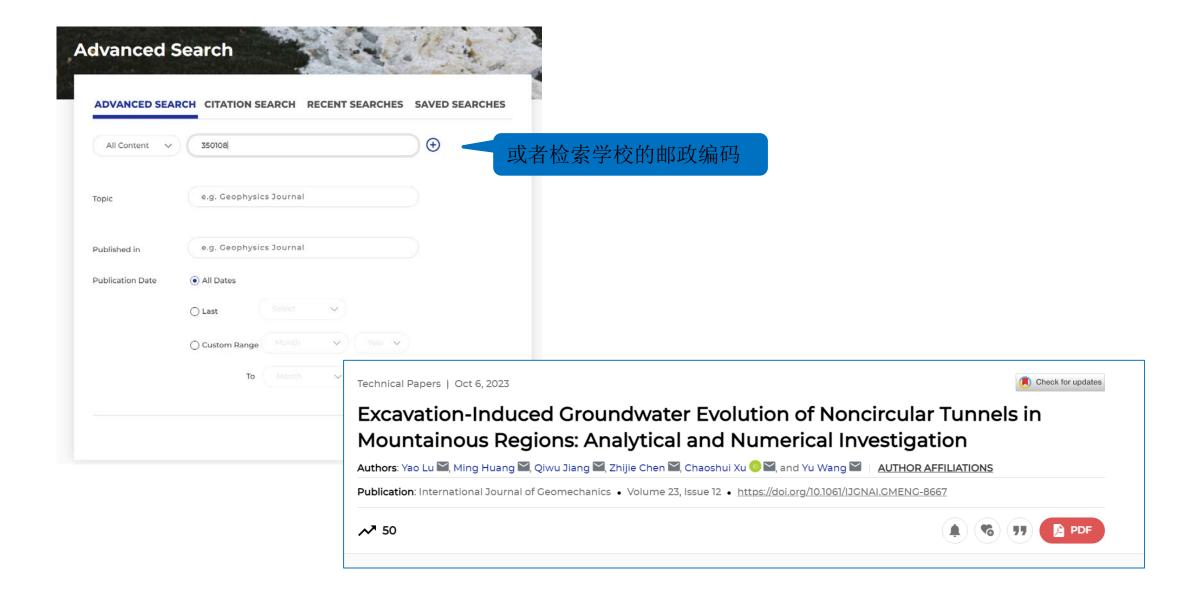
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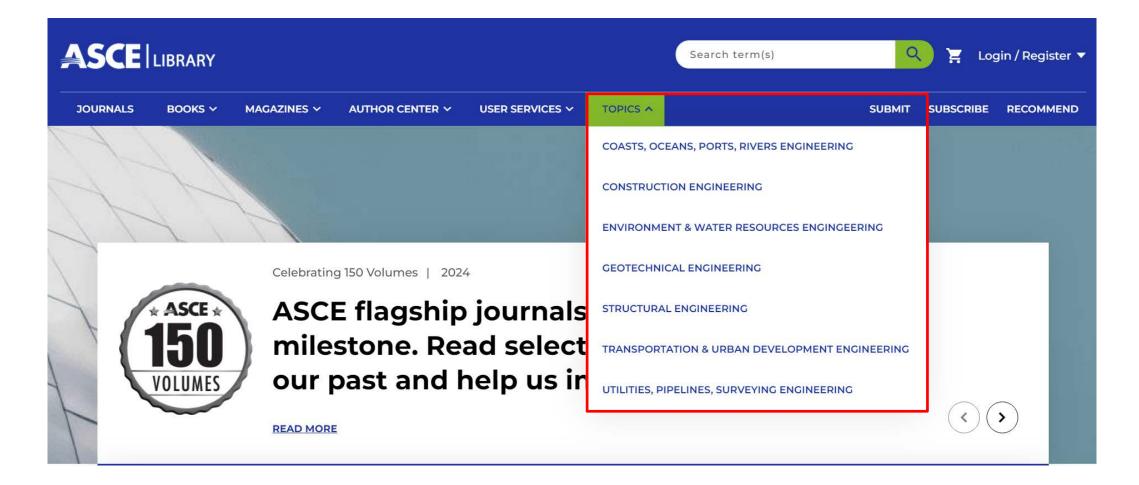








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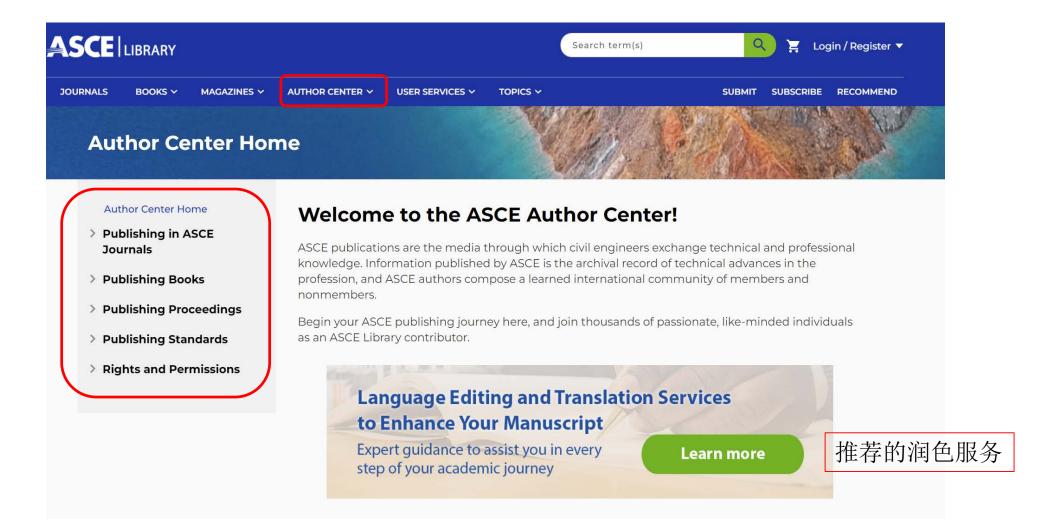
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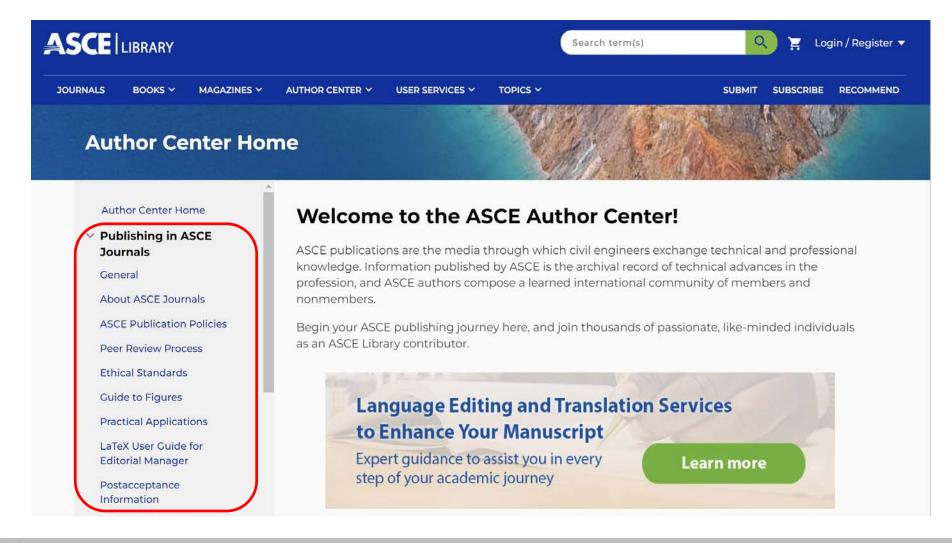
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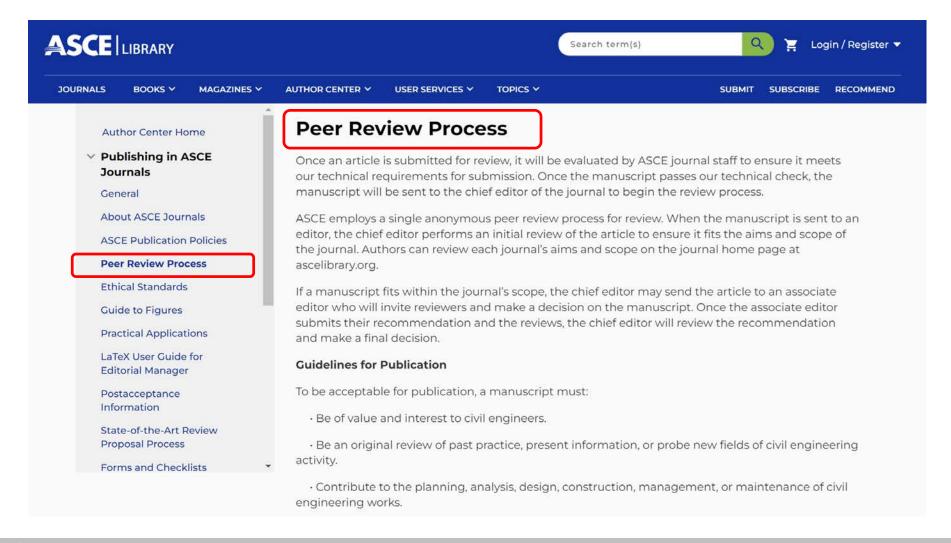
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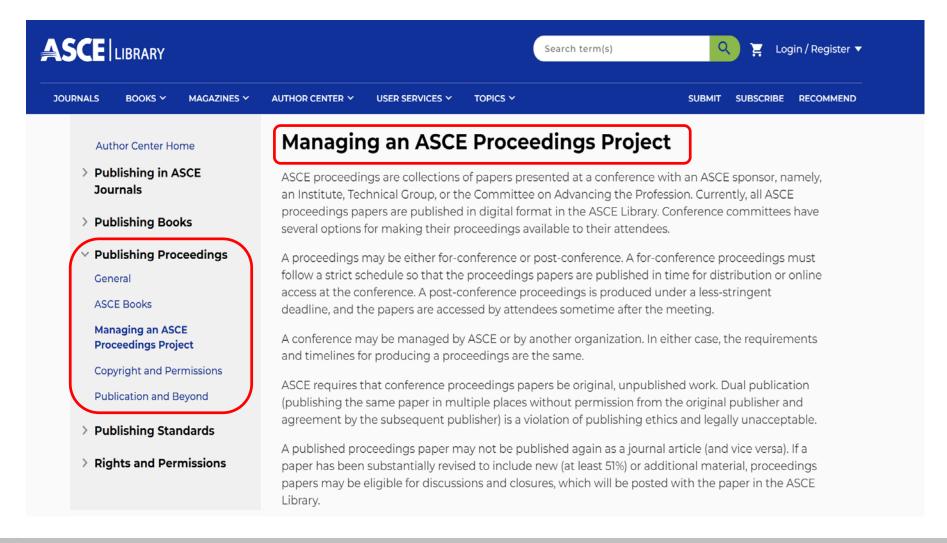
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