



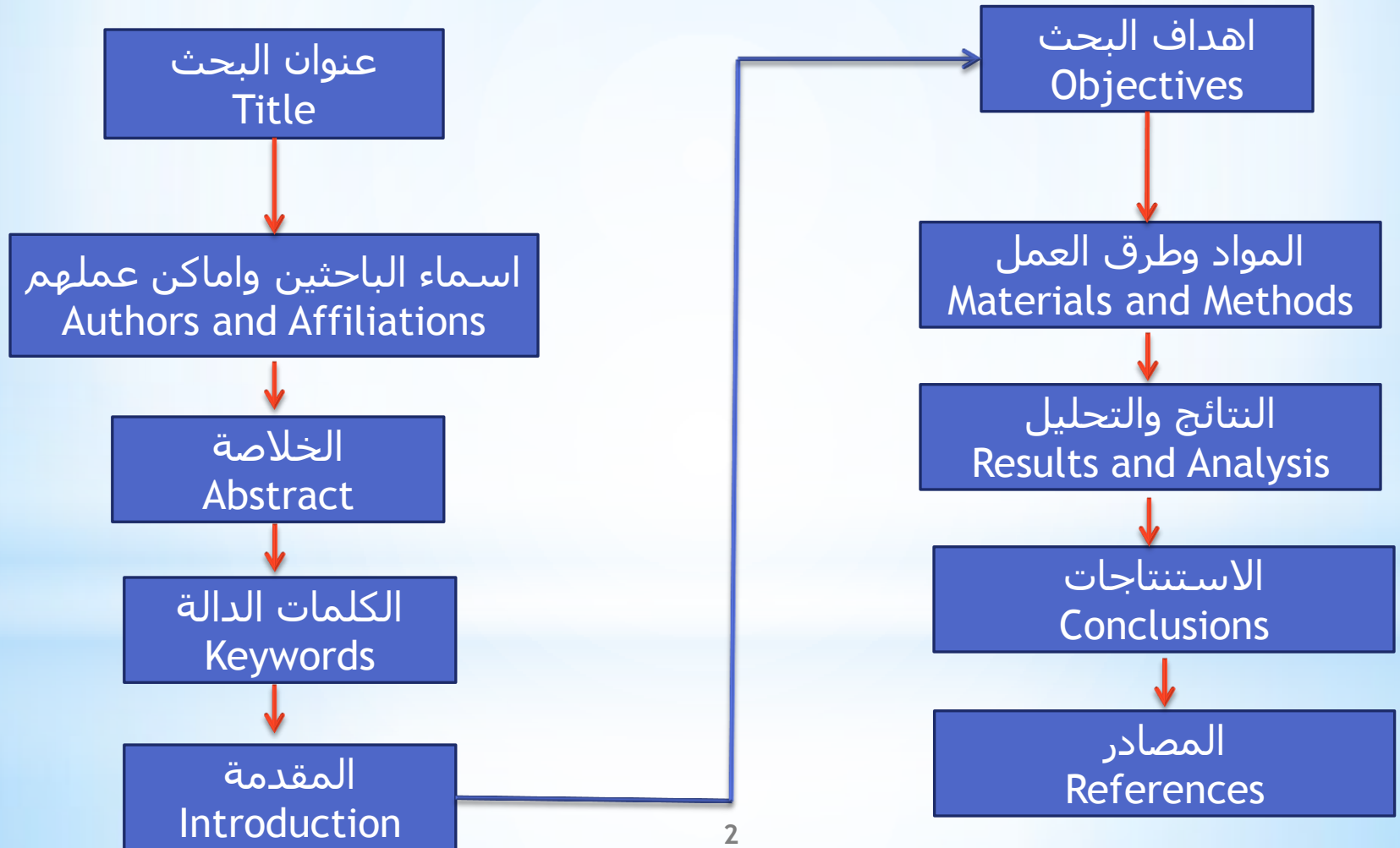
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من اعداد

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عضو لجنة الرصانة العلمية في رئاسة جامعة كركوك

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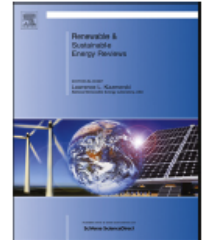
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Insulation materials for the building sector: A review and comparative analysis



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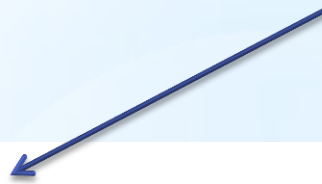
ABSTRACT

The energy consumption of a building is strongly dependent on the characteristics of its envelope. The thermal performance of external walls represents a key factor to increase the energy efficiency of the construction sector and to reduce greenhouse gases emissions. Thermal insulation is undoubtedly one of the best ways to reduce the energy consumption due to both winter heating and summer cooling. Insulation materials play an important role in this scenario since the selection of the correct material, its thickness and its position, allow to obtain good indoor thermal comfort conditions and adequate energy savings. Thermal properties are extremely important, but they are not the only ones to be considered when designing a building envelope: sound insulation, resistance to fire, water vapor permeability and impact on the environment and on human health need to be carefully assessed too.

The purpose of the paper is to provide a review of the main commercialized insulation materials (conventional, alternative and advanced) for the building sector through a holistic and multidisciplinary approach, considering thermal properties, acoustic properties, reaction to fire and water vapor resistance; environmental issues were also taken into account by means of Life Cycle Assessment approach. A comparative analysis was performed, considering also unconventional insulation materials that are not yet present in the market. Finally a case study was conducted evaluating both thermal transmittance and dynamic thermal properties of one lightweight and three heavyweight walls, with different types of insulating materials and ways of installation (external, internal or cavity insulation).

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المقدمة



1. Introduction

In the last decades the attention towards energy and environmental issues has grown exponentially and many international and national policies have been developed in order to guarantee a more sustainable future to the planet. Within this context, the European Union [1] paid particular attention to the building sector, since it is responsible for 40% of the total energy consumption in Europe. Furthermore, the unrealized energy efficiency potentials in the building sector are enormous and the massive adoption of energy savings measures in this sector could represent a solution for a strong

2. Objective

The overall objective of this study was to develop a new fluid loss model to predict the short-term and long-term characteristics of the filter cake under high pressure and high temperature conditions. The specific objectives were as follows: (1) develop a new fluid loss model to represent the changes in the filter cake formation with the time, and (2) compare the new fluid loss model predictions from the current study and the literature with the API model.

الهدف



3. Materials and methods

The standard API filter press test has a cross-sectional area of 45 cm^2 while the area for the HPHT filter press was 22.58 cm^2 . In the HPHT test, 2% and 8% bentonite drilling mud were used and tested at a pressure of 100 psi (689.5 kPa) and temperature of $100 \text{ }^\circ\text{C}$. The tests were continued till near zero fluid loss, about 420 min (7 hrs).

Results and discussion

In order to verify the prediction of the new Hyperbolic model with the API model, experimental results were divided into two

Conclusions

In this study, a new proposed hyperbolic developed to take into account the changes like thickness, permeability, solid content idy, 2% and 8% bentonite drilling muds sults were used to verify the static and hy tion for short and long term fluid losses. Al data from the literature were used to ver the model predictions of experimental i elusions are advanced:

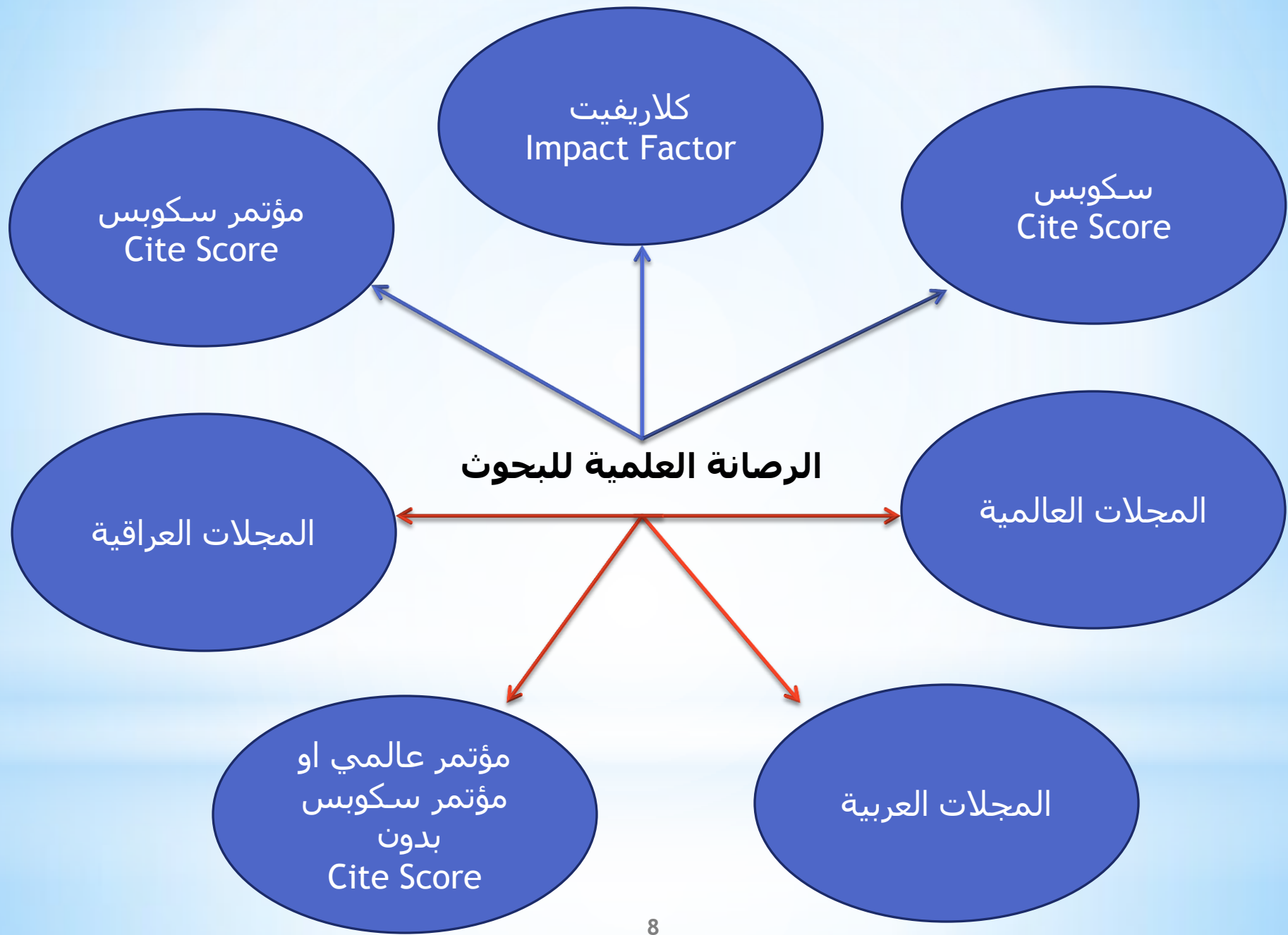
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الرئيسية عن المجلة إصدارات المجلة تعليمات النشر وسائل الاتصال

مجلة
كلية طب كركوك



عن المجلة

مجلة نصف سنوية تنشر من قبل كلية الطب في جامعة كركوك واستحدثت مجلة طب كركوك في العام 2011 حسب كتاب وزارة التعليم العالي والبحث العلمي هيئة الرأي ذي العدد (12/س/ 2362) في 22/8/2011 وكانت المجلة تعمل في ظروف استثنائية حيث كانت تعاني من قلة التجهيزات والمستلزمات، وتم إصدار العدد الأول في العام 2013 الذي كان يحتوي على اثني عشر (12) بحث في مجال التخصصات الطبية، وبفضل الجهود الاستثنائية وبدعم مباشر من قبل الجميع ارتفع عدد البحوث المنشورة إلى أكثر من عشرين بحثاً في الاصدارات الأخيرة.




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
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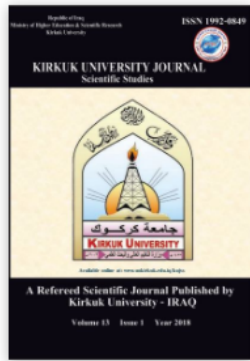
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



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Ali H. Taqi

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Running Title: soil

Abstract Number of Words: 153

Steel pipelines are vulnerable to the movements of active faults. Few studies focused on reverse faults. The deformational behavior of buried steel pipelines crossing an active reverse fault is investigated in this paper by applying 3D continuum finite element modeling. Numerical simulations indicate that local buckling (or wrinkling) mode of failure is more sensitive

ORCID

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The screenshot shows a web browser displaying the ORCID profile of Aram M. Raheem. The browser's address bar shows the URL `orcid.org/my-orcid?orcid=`. The page header includes the ORCID logo with the tagline "Connecting research and researchers", the user's name "Aram M. Raheem", and the language "English". A search bar is located in the top right. The profile is organized into several sections:

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- Emails:** A section for adding or editing email addresses, currently empty.
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- Other IDs:** A section for adding or editing other identifiers, showing "ResearcherID:" and "Scopus Author ID:" with status indicators.
- Names:** A section for managing the user's name, showing the "Published name" as "Aram M. Raheem" and the "Name" as "Aram Raheem".
- Biography:** A section for the user's biography, containing the text: "Assistant Professor Dr. Aram Mohammed Raheem has B.Sc. degree in civil engineering for University of Baghdad, M.Sc. degree in Soil Mechanics and Foundation Design from University of Baghdad (Iraq), and Ph.D. degree in Soil Mechanics and Foundation Design from University of Houston-TX-USA. My research interests are experimental and numerical modeling of soil, finite element analysis, soil improvement, drilling mud, recycling of waste materials, GIS modeling, and environmental sustainability techniques."
- Activities:** A section for listing professional activities, currently showing "Employment (0)".

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