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Nomor: 270-D/1172/FT-UNTAR/II/2021

Dekan Fakultas Teknik Universitas Tarumanagara, dengan ini menugaskan kepada Saudara:

Dr. Ir. Fermanto Lianto, M.T.

Untuk melaksanakan **Reviewer** dengan data sebagai berikut:

Nama Jurnal : Journal of Asian Architecture and Building Engineering
Judul : Towards Environmentally Adaptive Smart Museum
Buildings: A Review Study
Waktu Pelaksanaan : Semester Genap 2020/2021

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28 Februari 2021

Dekan



Harto Tanujaya, S.T., M.T., Ph.D.

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Journal of Asian Architecture and Building Engineering

COUNTRY	SUBJECT AREA AND CATEGORY	PUBLISHER	H-INDEX
Japan 	Arts and Humanities Arts and Humanities (miscellaneous) Engineering Architecture Building and Construction Civil and Structural Engineering Social Sciences Cultural Studies	Taylor and Francis Ltd.	17
PUBLICATION TYPE	ISSN	COVERAGE	INFORMATION
Journals	13472852, 13467581	2002-2020	Homepage How to publish in this journal

SCOPE

Journal of Asian Architecture and Building Engineering is a refereed international Open Access journal, serving researchers in academic and research organizations and all practitioners in the building sector. The journal is jointly-edited by the Architectural Institute of Japan (AIJ), the Architectural Institute of Korea (AIK), and the Architectural Society of China (ASC) and published bi-monthly. Asian academics and professionals have made efforts to find solutions to the themes derived from natural, geographical, socio-economical and cultural conditions in Asia. Their achievements have contributed to the evolution of research in the field of architecture and building engineering. For instance, achievements in structural engineering have contributed to the world by developing technology to assure safety of buildings in earthquake-prone areas. Asia has the largest share of the world's population with high densities in urban areas. It is a growing and the most energetic region in terms of building activities, which produces valuable empirical knowledge and lessons to architects and building engineers in Asia. It is quite significant to contribute to global architecture and building engineering by presenting the knowledge and lessons beyond linguistic barriers. By publishing the journal in English, it is expected that Asian wisdom and experience will be disseminated to the world. In the countries where these institutions are based, building professions can enjoy the collaborative and holistic approach because the three institutions distinctively possess the whole range of expertise relating to architecture and building engineering.

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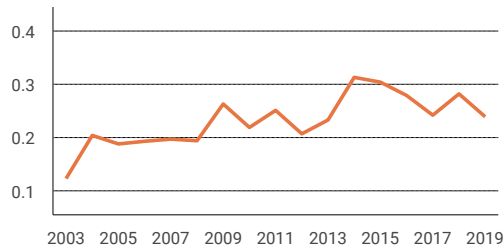
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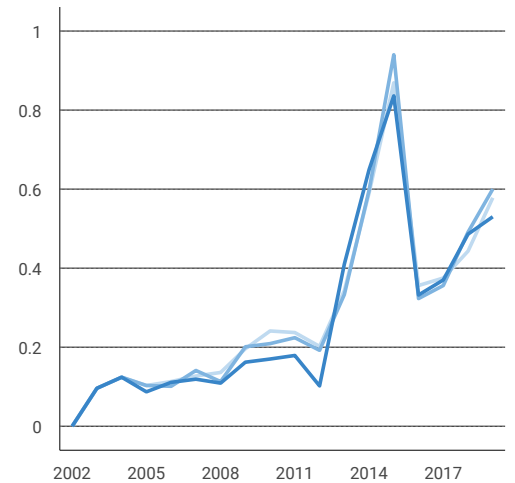
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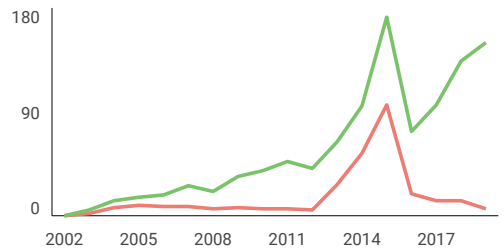
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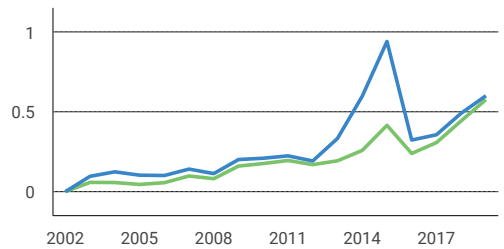


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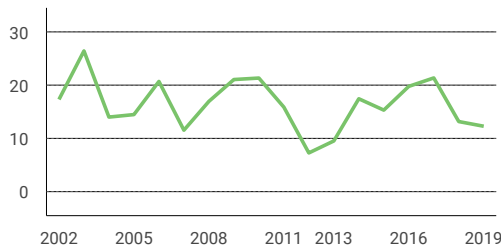


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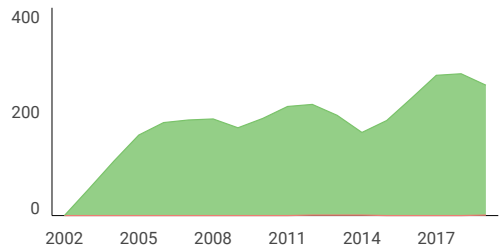
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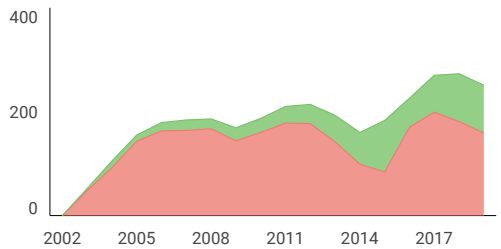
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Engineering: Architecture

Arts and Humanities: Arts and Humanities (miscellaneous)

Engineering: Building and Construction

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Invitation to Review for the Journal of Asian Architecture and Building Engineering

1 message

Journal of Asian Architecture and Building Engineering <onbehalf@manuscriptcentral.com>

Fri, Feb 5, 2021 at 4:22 PM

Reply-To: iwasa@hosei.ac.jp

To: fermantol@ft.untar.ac.id

05-Feb-2021

Dear Dr. Lianto,

Manuscript ID JAABE2011469AP entitled "Towards Environmentally Adaptive Smart Museum Buildings: A Review Study" has been submitted to the Journal of Asian Architecture and Building Engineering.

We invite you to review this manuscript. The abstract appears at the end of this letter. Please let me know as soon as possible if you will be able to accept our invitation to review. Review period is 15 days. If you are unable to review at this time, we would appreciate you recommending another expert reviewer. You may e-mail us with your reply or click the appropriate link at the bottom of the page to automatically register your reply with our online manuscript submission and review system.

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Sincerely,

Dr. Akihiko Iwasa
Field Editor
Journal of Asian Architecture and Building Engineering

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TITLE: Towards Environmentally Adaptive Smart Museum Buildings: A Review Study

ABSTRACT: Museum buildings are dedicated to helping people understand and appreciate the natural world and civilizations. Highly regulated indoor environmental conditions using forced/mechanical Heating, Ventilation and Air Conditioning (HVAC) systems are required to ensure long-term safety of artefacts and human comfort, this results to significant increase in energy consumption, exacerbating climate change. To achieve the long-term safety of artefacts and comfort of visitors in museum buildings without sacrificing energy efficiency and sustainability, the study reviewed the effect of four indoor environmental variables i.e. temperature, relative humidity, light and air pollution on museum artefacts and museum visitors. Data obtained from standards and existing literature on museum indoor environment was analyzed. A review of two museum buildings in hot-humid tropical climate of Nigeria was also carried out. It was revealed that the recommended fixed standards are strictly followed though there are wide ranges of conditions that satisfy the long-term safety of artefacts and human comfort. However, the discussions on environmental control practices, architectural design strategies, adaptation of double skin façade and smart materials revealed that the standards for the long-term safety of museum artefacts and satisfactory levels of human comfort can indeed be achieved in buildings unaccompanied by mechanical HVAC control systems.

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