

SURAT - TUGAS

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

Dr. Ir. Fermanto Lianto, M.T

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

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22 Mei 2020

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Reviewer Invitation for Impact Assessment of Window to Wall Ratio (WWR) on Energy Consumption of an Office Building of Subtropical Monsoon Climatic Country Bangladesh

1 message

International Journal of Construction Management <em@editorialmanager.com>
 Reply-To: International Journal of Construction Management <shenliyin@cqu.edu.cn>
 To: Fermanto Lianto <fermantol@ft.untar.ac.id>

Wed, Feb 26, 2020 at 2:58 PM

Feb 26, 2020

Dear Dr. Lianto,

You have been invited to review a manuscript for International Journal of Construction Management.

I would be grateful if you would review a paper entitled "Impact Assessment of Window to Wall Ratio (WWR) on Energy Consumption of an Office Building of Subtropical Monsoon Climatic Country Bangladesh" for this journal.

This is the abstract:

Building's window-to-wall ratio (WWR) plays a significant role for predicting energy consumption in tropical climate from the huge amount of solar heat gain occurs through the exterior windows for having high solar radiation intensity and annual average temperature in tropical climatic regions. This study investigates the impact of WWR on energy consumption of office buildings of subtropical monsoon climatic country Bangladesh. In addition, a comprehensive data analysis was carried out with incorporating passive design parameters to predict the optimum range of WWR percentage for the office buildings set with various conditions like wall thickness, thermal insulation thickness, shading height and window orientations. The analysis was conducted through rigorous energy simulation perspective by developing a two storey prototype office building in a validated energy simulation tool eQUEST. This research suggests a range of WWR that 30% to 40% would be the optimum range for the office buildings in Bangladesh. The output of this work revealed that an existing office building was able to save about 9.40% percent of electricity by incorporating optimum percentage of WWR into south orientated wall. The output of this work can be incorporated into Bangladesh National Building Code as energy efficient strategies for designing an office building.

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The manuscript reference is TJCM-2020-0114.

If possible, I would appreciate receiving your review in 30 days. You may submit your comments online at the above URL. There you will find spaces for confidential comments to the editor, comments for the author and a report form to be completed.

With kind regards

Professor Martin Skitmore
 International Journal of Construction Management

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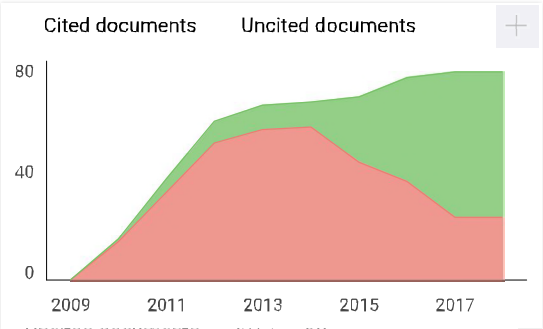
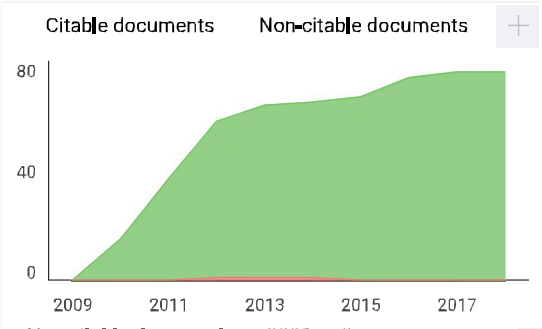
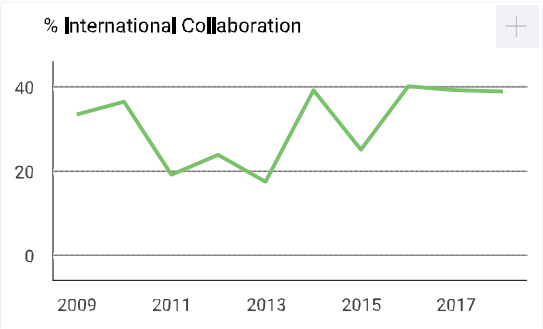
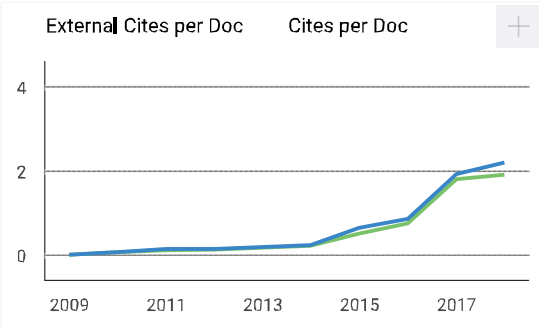
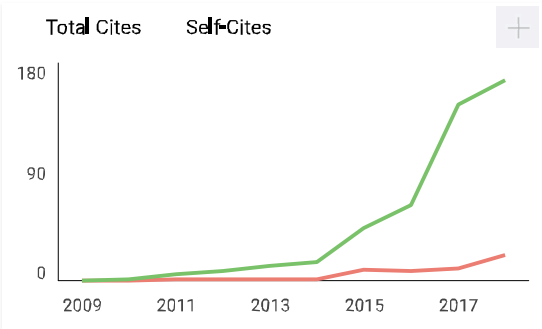
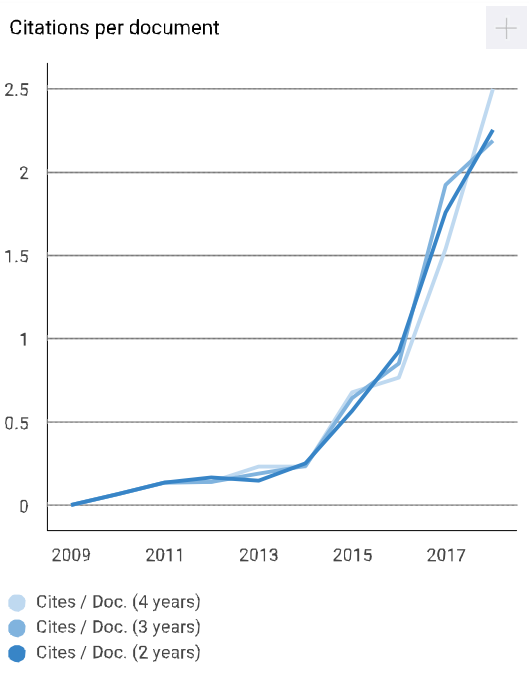
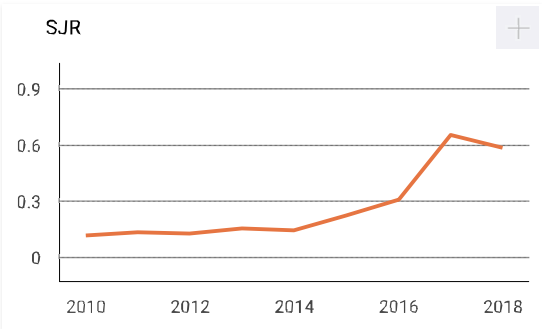
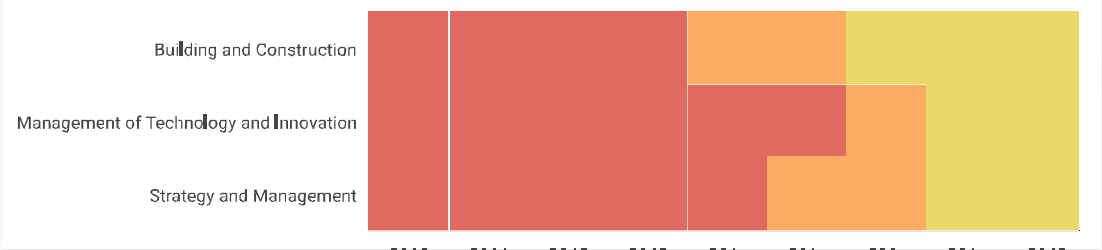


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