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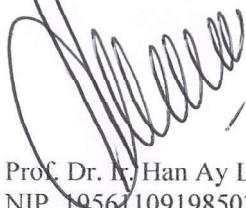
Judul Jurnal Ilmiah (Artikel) : The Use of Natural Zeolite As an Additives in Warm Mix Asphalt With Polymer Modified Asphalt Binder
 Jumlah Penulis : 3 orang (Handayani, A.T., Setiadji, B.H., dan Wardani, S.P.R)
 Status Pengusul : penulis ke-3
 Identitas Jurnal Ilmiah : a. Nama Jurnal : International Journal of Engineering Research in Africa (Q4)
 b. Nomor ISSN : 1663-4144
 c. Vol, No., Bln Thn : Volume 15, April 2015, Halaman 35-46
 d. Penerbit : Trans Tech Publications
 e. DOI artikel (jika ada) : <https://doi.org/10.4028/www.scientific.net/JERA.15.35>
 f. Alamat web jurnal : <https://www.scientific.net/JERA.15.35>
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Nilai Pengusul = $40\%/2 \times 18,37 = 3,67$			

Reviewer I



Prof. Dr. Ir. Han Ay Lie, M.Eng.
 NIP. 195611091985032002

Unit kerja : Departemen Teknik Sipil FT UNDIP

Reviewer II



Prof. Dr. Ir. Sri Tadjono, MS.
 NIP. 195303091981031005

Unit kerja : Departemen Teknik Sipil FT UNDIP

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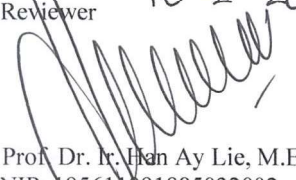
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Semarang, 10-2-2020
 Reviewer


 Prof. Dr. Ir. Han Ay Lie, M.Eng
 NIP. 195611091985032002
 Unit kerja : Departemen Teknik Sipil FT UNDIP

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Prof. Dr. Ir. Sri Tadjono, MS
 NIP. 195303091981031005
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The Use of Natural Zeolite as an Additive in Warm Mix Asphalt with Polymer Modified Asphalt Binder

AT Handayani, BH Setiaji... - International Journal of ..., 2015 - Trans Tech Publ

Asphalt Concrete mixture of polymer modification are used to reduce the damage early and increasing the durability of pavement to various damage such as permanent deformation, cracking due to temperature changes, fatigue During this process the polymer asphalt ...

☆ 77 Cited by 2 Related articles All 6 versions

Evaluation of natural zeolite as warm mix asphalt additive and its comparison with other warm mix additives

B Sengoz, A Topal, C Gorkem - Construction and Building Materials, 2013 - Elsevier

... Please enable JavaScript to use all the features on this page ... In the light of findings from MI values, it is possible to consider that the utilization of 5% of synthetic zeolite is ... It can also be considered that natural zeolite can be used as an alternative WMA additive to synthetic zeolite ...

☆ 77 Cited by 54 Related articles All 3 versions

Evaluation of moisture characteristics of warm mix asphalt involving natural zeolite

B Şengöz, A Topal, C Gorkem - Road materials and pavement ..., 2013 - Taylor & Francis

... Lottman test, it is possible to consider that asphalt specimen prepared with natural zeolite has shown a ... Anti-stripping agents may be used to improve the resistance to moisture susceptibility to adequate ... Pavement engineering materials: Review on the use of warm-mix asphalt ...

☆ 77 Cited by 24 Related articles All 4 versions

Modified asphalt binder with natural zeolite for warm mix asphalt

M Dubravský, J Mandula - Selected Scientific Papers-Journal of Civil ..., 2015 - degruyter.com

... The extensive uses of zeolites are mainly due to the specific physico-mechanical properties ... Natural zeolite as an ingredient has been used product from the company Zeocem Bystré under ... Synthesis of warm mix asphalt paving strategies for use in Montana highway construction ...

☆ 77 Cited by 10 Related articles All 8 versions

Properties of the Warm Mix Asphalt involving clinoptilolite and Na-P1 zeolite additives

A Wozzuk, W Franus - Construction and Building Materials, 2016 - Elsevier

... to decrease the mix asphalt production and compaction temperature [2], [7]. The beginnings of WMA use included application ... Another asphalt foaming method is application of zeolites ... The type of materials used for tests has an effect on the results' divergence: both the zeolite ...

☆ 77 Cited by 37 Related articles All 5 versions

Evaluation of mixture characteristics of warm mix asphalt involving natural and synthetic zeolite additives

A Topal, B Sengoz, BV Kok, M Yilmaz... - ... and Building Materials, 2014 - Elsevier

... The load pulse application was adjusted to 3.0 s. ITSM tests were conducted at three different temperatures (20 °C, 25 °C and 30 °C) ... The UTM was also used for this purpose ... Standard test method for soundness of aggregates by use of sodium sulfate or magnesium sulfate ...

☆ 77 Cited by 52 Related articles All 5 versions

Warm mix asphalt: an overview

MC Rubio, G Martínez, L Baena, F Moreno - Journal of Cleaner Production, 2012 - Elsevier

... The application of LCA in the construction of asphalt pavements is relatively recent, as underlined by ... of plant modification (if necessary), the costs of the additives (if additives are used), and technology ... all of which may increase the total cost of this type of mix (The use of Warm ...

☆ 77 Cited by 406 Related articles All 3 versions

Effect of zeolite properties on asphalt foaming

A Wozzuk, A Zofka, L Bandura, W Franus - Construction and Building ..., 2017 - Elsevier

... strictly defined structure parameters which is dictated by a particular industrial application (eg selective ... Up to date the WMA technologies include the use of synthetic zeolites manufactured using ... In the final evaluation of zeolite properties, SEM-EDS device was used to evaluate ...

☆ 77 Cited by 29 Related articles All 5 versions

Behavior of a warm mix asphalt using a chemical additive to foam the asphalt binder

HA Rondón-Quintana... - Revista Facultad de ..., 2016 - scielo.org.co

... of the stiffer modified asphalt binder stemming from the additive's application (see Figures ... G. Castaño, "Rheological Properties of Asphalt Binders with Chemical Tensioactive Additives Used in Warm ... and F. Martinho, "Pavement Engineering Materials: Review on the Use of Warm ...

☆ 77 Cited by 7 Related articles All 17 versions

Evaluation of potential processes for use in warm mix asphalt

GC Hurley, BD Prowell - Journal of the Association of Asphalt ..., 2006 - warmmixasphalt.org

Evaluation of Potential Processes for Use in Warm Mix Asphalt ... In summary, in the Fischer-Tropsch synthesis, coal or natural gas (methane) is partially oxidized to carbon ... Analysis of Variance (ANOVA) was used to analyze the densification data with air voids as the response ...

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Volume 15

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Papers

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>

Paper Title

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Wind Energy Potential in Kuching Areas of Sarawak for Small-Scale Power Application

1

Authors: S.M. Lawan, W.A.W.Z. Abidin, W.Y. Chai, Azhaili Baharun, Thelaha Masri

Abstract: Energy is a catalyst for national development; most of the countries depend on hydrocarbon fuels for power generation. The traditional sources of [...more](#)

Nanotechnology for Photovoltaic Cells and Energy Efficiency.

11

Authors: Santina Di Salvo

Abstract: Abstract. The intent of this paper is to connect science and technology in order to demonstrate how, in the field of on photovoltaic technologies, thin film [...more](#)

Modelling and Simulation of Trigeration Systems Integrated with Gas Engines

18

Authors: M.C. Ekwonu, Simon Perry, E.A. Oyedoh

Abstract: In this paper, the integration of Gas Engines with the Rankine cycle and Organic Rankine cycle for use as a combined cooling, heating and power (CCHP)

[...more](#)

Gas Control Technology under Unstable Disturbance Stress

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Authors: Wei Min Cheng, Lu Lu Sun, Gang Wang, Hong Yuan Qu

Abstract: Under the action of unstable disturbance stress, the stress concentration and roadway deformation are serious when tunneling along the

[...more](#)

The Use of Natural Zeolite as an Additive in Warm Mix Asphalt with Polymer Modified Asphalt Binder

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Authors: Ani Tjitra Handayani, Bagus Hario Setiaji, Sri Prabandiyani

Abstract: Asphalt Concrete mixture of polymer modification are used to reduce the damage early and increasing the durability of pavement to various damage

[...more](#)

Analyses of Deteriorating Old Masonry Buildings; Characterisation of Materials for Establishment of their Compatible Repairs

47

Authors: John K. Makunza, G. Senthil Kumaran

Abstract: Most of the Governmental and religious building structures in Rungwe district are masonry structures built during the German East Africa period. These

[...more](#)

Using Non-Destructive Methods for the Characterization of Concrete in Aggressive Environments

62

Authors: Khial Nassima, Rachid Mehaddene

Abstract: The durability of reinforced concrete structures is reduced by the chloride penetration and susceptibility of the reinforcement to chloride induced

[...more](#)

An Assessment of Extended Surfaces-Two Dimensional Effects

71

Authors: Karinate Valentine Okiy

Abstract: This article looks at the effects of considering two-dimensional temperature distributions in analyzing different fin configurations (radial

[...more](#)

Relationship between the Geometric Properties and the Shear Modulus of an Adhesive, and Optimization of Mechanical Behavior of Bonded Assemblies

86

Authors: Ghazi Abdelkader

Abstract: The bonding is a method of maintaining solidly and permanently attaching two surfaces, similar or different of materials by adhesive. It is known

[...more](#)

Importance of Material's Dynamic Stress Intensity Factor Calculation in the Design of High Strength Structures

97

Authors: Raja Ahsan Javed, Shi Fan Zhu, Feng Chun Jiang

Abstract: The researchers and scientists have concluded that material dynamic fracture properties must be considered during the design stage of the modern

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