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HASIL PENILAIAN SEJAWAT SEBIDANG ATAU PEER REVIEW
KARYA ILMIAH : JURNAL ILMIAH

Judul Jurnal Ilmiah (Artikel) : Analysis of pH on Plasma Activated Medium in Aqueuous Solution in Cold Atmospheric Pressure Plasma Jets

Nama/ Jumlah Penulis : 3 Orang

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Identitas Jurnal Ilmiah :

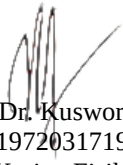
- a. Nama Jurnal : International Journal of Innovative Research in Advanced Engineering (IJIRAE)
- b. Nomor ISSN : 2349-2163
- c. Vol, No., Bln Thn : Vol 5 No 1, Hal 22-25, Januari 2018
- d. Penerbit : IJIRAE
- e. DOI artikel (jika ada) : //10.26562/IJIRAE.2018.JAAE10087
- f. Alamat web jurnal : <http://iiste.org>
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- g. Terindex : Index Copernicus, Inno Space, ISRA Journal Impact Factor, Google Scholar, Impact Factor (2016): 3.916

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Total = (100%)	18,00	18	18
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Reviewer 1



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Semarang, 18 Januari 2023

Reviewer 2



Prof. Dr. Agus Subagio, S.Si., M.Si.
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HASIL PENILAIAN SEJAWAT SEBIDANG ATAU PEER REVIEW
KARYA ILMIAH : JURNAL ILMIAH

Judul Jurnal Ilmiah (Artikel) : Analysis of pH on Plasma Activated Medium in Aqueous Solution in Cold Atmospheric Pressure Plasma Jets

Nama/ Jumlah Penulis : 3 Orang

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1. Kelengkapan unsur isi jurnal:

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2. Ruang lingkup dan kedalaman pembahasan:

Lingkup bahasan dari artikel ini adalah bidang fisika. Pembahasan cukup baik yaitu kemampuan jet plasma untuk menurunkan pH dalam air solusi. Jet plasma dihasilkan oleh tegangan tinggi AC sinusoidal pada 12 kV dan pada frekuensi 26 kHz. Plasma media aktif (PAM) diproduksi dengan memaparkan air aquadest ke CAPPJs. Kedalaman pembahasan baik.

3. Kecukupan dan kemutakhiran data/informasi dan metodologi:

Informasi yang disajikan cukup baru dan hasil yang diperoleh memuat substansi orisinal dengan aspek aplikasi yang penting. Sumber gagasan penulis untuk artikel ini cukup komprehensif. Dari 17 referensi yang dipakai tidak ada paper yang lebih dari 10 tahun terakhir (out of date). Metodologinya dan penulisannya kurang terstruktur.

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Semarang, 18 Januari 2023

Reviewer


 Prof. Dr. Kusworo Adi, S.Si., M.T.
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d. Kelengkapan unsur dan kualitas terbitan/jurnal (30%)	6			6
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- Kesesuaian dan kelengkapan unsur isi jurnal:**
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- Ruang lingkup dan kedalaman pembahasan:**
Pembahasan artikel terkait dengan studi Cold Atmospheric Pressure Plasma Jets untuk menurunkan pH pada larutan cukup baik dengan melibatkan penelitian dari referensi yang dicantumkan.
- Kecukupan dan kemutakhiran data/informasi dan metodologi:**
Metode standar serta referensi yang digunakan cukup baik.
- Kelengkapan unsur dan kualitas terbitan:**
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Semarang, 18 Januari 2023
 Reviewer 2



Prof. Dr. Agus Subagio, S.Si., M.Si.
 NIP. 19710813 1995121001
 Unit Kerja : Fisika/FSM/UNDIP
 Bidang Ilmu: Fisika Material

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Analysis of pH on Plasma Activated Medium in Aqueous Solution in Cold Atmospheric Pressure Plasma Jets

January 2018

DOI: 10.26562/IJIRAE.2018.JAAE10087

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Abstract

Cold Atmospheric Pressure Plasma Jets (CAPPJs) was generated by using column dielectric barrier discharge has been investigated. In this study, we evaluated the ability of plasma jet to decrease the pH in aqueous solutions. Plasma jet was generated by a sinusoidal AC high voltage at 12 kV and at frequency 26 kHz. Plasma activated medium (PAM) was produced by exposing aquadest water to the CAPPJs. The duration of exposing plasma jet was set at 5 minutes to 35 minutes, with an interval of 5 minutes. Plasma exposures were performed at the distance at 2 cm between plasma jet tube output and the upper surface of the liquid medium. On the results obtained in this experiment, the pH values at 2.7 in plasma-activated medium with exposure of plasma jet. We found that the pH of PAM decrease by a duration of exposure plasma jet. Cold Atmospheric Pressure Plasma Jets can significantly decrease the pH in aqueous solutions.



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06	<u>DYNAMIC ANALYSIS OF HIGH RISE STRUCTURES UNDER DIFFERENT TYPE OF REINFORCED CONCRETE SHEAR WALL FOR AN EARTHQUAKE RESISTANT BUILDING</u> Authors: Mahdi Hosseini ,Prof.N.V.Ramana Rao DOI://10.26562/IJIRAE.2018.JAAE10085	JAAE10085
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DYNAMIC ANALYSIS OF HIGH RISE STRUCTURES UNDER DIFFERENT TYPE OF REINFORCED CONCRETE SHEAR WALL FOR AN EARTHQUAKE RESISTANT BUILDING

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Abstract-- Shear walls are a type of structural system that provides lateral resistance to a building or structure. They resist in-plane loads that are applied along its height. The applied load is generally transferred to the wall by a diaphragm or collector or drag member. In the present work thirty story building with C Shape, Box shape, E Shape, I shape and Plus shape RC Shear wall at the center in Concrete Frame Structure with fixed support conditions under different type of soil for earthquake zone V as per IS 1893 (part 1) : 2002 in India are analyzed using software ETABS by Dynamic analysis. All the analyses has been carried out as per the Indian Standard code books. This paper aims to Study the behaviour of high rise structure with dual system with Different Type of RC Shear Walls (C,Box,E,I and Plus shapes) under different type of soil condition with seismic loading. Estimation of structural response such as; storey displacements, storey stiffness, Lateral loads, Mode shape of shear wall, Time period and frequency is carried out. In dynamic analysis; Response Spectrum method is used.

Keywords-- Dynamic Analysis; Soft; Medium &Hard Soil; Structural Response; RC Shear Walls; storey displacements; storey stiffness; Lateral loads; Mode shape of shear wall ; Time period and frequency;

I. INTRODUCTION

Shear Wall is a Structural Element used to Resist Lateral/Horizontal/Shear Forces Parallel to the Plane of the Wall By:

- Cantilever Action For Slender Walls Where The Bending Deformation is Dominant.
- Truss Action For Squat/Short Walls Where The Shear Deformation Is Dominant.

Shear walls resist two types of forces: shear forces and uplift forces. Connections to the Structure above transfer horizontal forces to the shear wall. This transfer creates shear forces throughout the height of the wall between the top and bottom shear wall connections.