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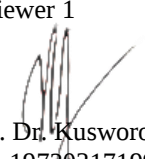
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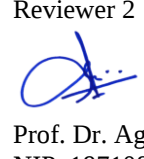
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 Prof. Dr. Kusworo Adi, S.Si., M.T.
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 Unit Kerja : Fisika/FSM/UNDIP
 Bidang Ilmu: Fisika Instrumentasi

Semarang, 18 Januari 2023
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 Prof. Dr. Agus Subagio, S.Si., M.Si.
 NIP. 19710813 1995121001
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Penulisan artikel sudah baik dan mengikuti standard penulisan artikel di jurnal, yaitu abstrak, introduction, experimental technique, result and discussion, conclusions, acknowledgement and references. Substansi artikel sesuai bidang ilmu pengusul

2. Ruang lingkup dan kedalaman pembahasan:

Lingkup bahasan dari artikel ini adalah bidang fisika. Pembahasan cukup baik yaitu menyajikan Elektrohodinamik (EHD) yang dihasilkan oleh lucutan plasma korona positif. Kawat elektroda yang digunakan adalah terbuat dari bahan stainless steel dengan panjang 5 cm dan variasi diameter dari 0,11 mm hingga 0,38 mm. Kedalaman pembahasan baik.

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Informasi yang disajikan cukup baru dan hasil yang diperoleh memuat substansi orisinil dengan aspek aplikasi yang penting. Sumber gagasan penulis untuk artikel ini kurang komprehensif. Dari 15 referensi yang dipakai terdapat 9 paper yang lebih dari 10 tahun terakhir (out of date). Metodologinya dan penulisannya kurang terstruktur.

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- Kesesuaian dan kelengkapan unsur isi jurnal:**
 Penulisan jurnal untuk artikel telah diikuti dengan lengkap, terdapat introduction, experimental technique, result and discussion, conclusion, references.
- Ruang lingkup dan kedalaman pembahasan:**
 Pembahasan artikel terkait dengan studi elektrohdrodinamika pada positive corona plasma discharge telah dijelaskan secara mendalam untuk mengetahui nilai maksimum sudut terjadinya angin ion pada corona plasma discharge. Artikel ini juga dilengkapi dengan referensi pada bagian pembahasan untuk menguatkan diskusi, namun demikian masih sedikit yang digunakan.
- 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



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Advances in Physics Theories and Applications
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 Vol.30, 2014

Evaluating the mechanical properties of Epoxy resins and Silica fume as fillers

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Abstract
 Composite material consists of merging two composite materials or more are different physical properties, in this study a composite polymeric material has been prepared, it is of cracks that happened in concrete slabs, by using Epoxy resin as a major substance were the Fly ash and Silica fume. Samples were prepared by hand-made molds has specified to the American Standards for Testing and Materials (ASTM) and adding each filler ratios as (10%, 20%, 30 %, 40% and 50%), then studying the mechanical properties tensile, hardness, compression, impact and bending properties.
Key Words : Epoxy resin, Fly ash, Silica fume, fillers.

1. Introduction
 Ash residues are wastes of coal fired plants and they are produced at the boiler including fly ashes and bottom ashes [1]. The demand for the lightweight materials such as had led to the development of fly-ash based thermosetting resins [2-6]. In fiber epoxy resin fly ash led to a reduction of the density and increase in modulus of composites [4]. At widely used in various engineering and structural applications such as electrical industries, military aircrafts industries. In order to improve their processing and product performance various fillers are introduced into the resins during processing [7].

2. Matrix materials
2.1 Epoxy resin
 Epoxy resins are the most commonly used thermoset plastic in polymer matrix are a family of thermoset plastic materials which do not give off reaction products with low cure shrinkage. They also have good adhesion to other materials, good chemical resistance, good chemical properties and good insulating properties. The epoxy is manufactured by reacting epichlorohydrin with bisphenol. Different resins are formed the two: as the proportion of epichlorohydrin is reduced the molecular weight of the resins are cured by means of a curing agent, often referred as catalysts, hardeners or

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Evaluating Possible Methods and Approaches for Electromagnetic Waves Emitted from the Human Body

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Abstract

This paper presents the results of evaluation of possible biophysical methods and a various non-ionizing radiation (NIR) wave types of the human body in the electromagnetic NIR (electromagnetic waves, infrared radiation, thermo radiation, bioluminescence) body were reviewed. In particular the results of spontaneous biophoton emission and of the human body are submitted along with infrared thermography (IRT) results. It was generally emits ~85 photons for 1s. The intensity of biophoton emission ranges from (approx. ~1-1000 photons cm⁻²s⁻¹). The specific photon emission from part of the human body spectrum of various colours with the method of Color coronal spectral analysis on a made of polyethylene terephthalate (PET hostafan) with applied electric voltage of duration 10 μs, and electric current frequency 15 kHz. It was established that photon color emission of the visible electromagnetic spectrum have energy at 1.82 eV. The electromagnetic spectrum has energy at 2.05, yellow – 2.14, blue-green (cyan) – 2.43, 3.03 eV. The reliable result measurement norm was at E ≥ 2.53 eV, while the spectral range within 380-495 nm and 570-750 nm ± 5 nm. Some important physical characteristics (energy of hydrogen bonds, wetting angle, surface tension) of water by the methods of (NES) and differential non-equilibrium energy (DNES) spectrum of water, that helps to electromagnetic radiation interacts with water and establishes the structural alterations in water.

Keywords: electromagnetic waves, infrared radiation, thermo radiation, bioluminescence analysis, NES, DNES

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