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KARYA ILMIAH: PROSIDING**

Judul Jurnal Ilmiah (Paper) : Synthesis and characterization carboxyl functionalized Multi-Walled Carbon Nanotubes (MWCNT-COOH) and NH₂ functionalized MultiWalled Carbon Nanotubes (MWCNTNH₂)

Penulis/Jumlah Penulis : S. A. Wulandari, Arifin, Hendri Widiyandari, Agus Subagio/ 4 orang

Status Pengusul : Penulis Anggota

Identitas Jurnal Ilmiah : a. Nama Prosiding : 7th International Seminar on New Paradigm and Innovation on Natural Sciences and Its Application, ISNPINSA 2017 Institute of Physics Publishing

b. ISBN/ISSN : 1742-6588

c. Tahun Terbit, Tempat Pelaksanaan : 2018, Semarang, Indonesia

d. Penerbit/Organizer : Institute of Physics Publishing

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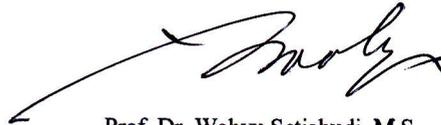
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Reviewer II



Prof. Dr. Heri Sutanto, S.Si, M.Si
NIP. 197502151998021001
Unit Kerja: Departemen Fisika, Fakultas Sains dan Matematika
UNDIP Semarang

Reviewer I



Prof. Dr. Wahyu Setiabudi, M.S
NIP. 195806151985031002
Unit Kerja: Departemen Fisika, Fakultas Sains dan
Matematika UNDIP Semarang

$$= 3,5$$

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c. Kecukupan dan kemutakhiran data/informasi dan metodologi (30%)	9,00		8
d. Kelengkapan unsur dan kualitas penerbit (30%)	9,00		8
Total = (100%)	30,00		

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1. less word perfectly, lengkap
2. tergantung hasil pada pendahuluan, bisa & detail lebih banyak pustaka lebih baik
3. 15 page 28 pustaka lebih & baik, kurang isi tabel file lebih jelas lebih baik.
- 4 - Pembahasan pustaka perlu lebih konsisten, kualitas table, angka file.

Reviewer 1



Prof. Dr. Wahyu Setiabudi, M.S
NIP. 195806151985031002

Unit Kerja: Departemen Fisika, Fakultas Sains dan Matematika UNDIP Semarang

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Reviewer II



Prof. Dr. Heri Sutanto, S.Si, M.Si
NIP. 197502151998021001

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Code 136783

Synthesis and characterization carboxyl functionalized Multi-Walled Carbon Nanotubes (MWCNT-COOH) and NH₂ functionalized Multi-Walled Carbon Nanotubes (MWCNTNH₂) (Conference Paper) (Open Access)

Wulandari, S.A.^a, Arifin^b, Widiyandari, H.^b, Subagio, A.^b

^aElectrical Engineering Department, Dian Nuswantoro University, Indonesia

^bPhysics Department, Diponegoro University, Indonesia

Abstract

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A making of MWCNTs-COOH has been conducted to improve the compatibility of carbon nanotubes and MWCNTs-NH₂, in order to have conductive properties. The MWCNTs- COOH study was performed, using the first reflux method using HNO₃ for 6 hours heated with 60° C (concentrated HNO₃ ratio with MWCNTs is 1: 5), followed by the second reflux using SOCl₂ for 5 hours heated to 70°C (concentrated HNO₃ ratio with MWCNTs is 1: 3). Meanwhile, the making of MWCNTs-NH₂ used homogenization process, used magnetic stirrer, with comparison between MWCNTs-COOH with Etanadamine 1: 2000, for 8 hours at 40oC. Both products were analyzed using Fourier transform infrared (FTIR), Scanning Electron Microscopy (SEM) and Energy Dispersive X-Ray Spectroscopy (EDS). The C-O bond on MWCNTs-COOH is indicated by absorption at wavelength 1672.28 cm⁻¹ and O-H bond at 3431.36 cm⁻¹ N-H bond on MWCNTs-NH₂ shown at wavelength 1440.83. The SEM analysis indicates that both products have a tubular surface morphology. © Published under licence by IOP Publishing Ltd.

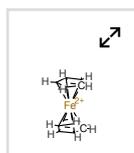
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Substances



Author keywords

MWCNTs MWCNTs-COOH and MWCNTs-NH₂ SEM

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Funding details

Funding text

We are grateful for technical support from Integrated Laboratory, Universitas Diponegoro Semarang and LPPM Universitas Dian Nuswantoro Semarang. We express our gratitude to RISTEK DIKTI for financial support of this research.

ISSN: 17426588

Source Type: Conference Proceeding

Original language: English

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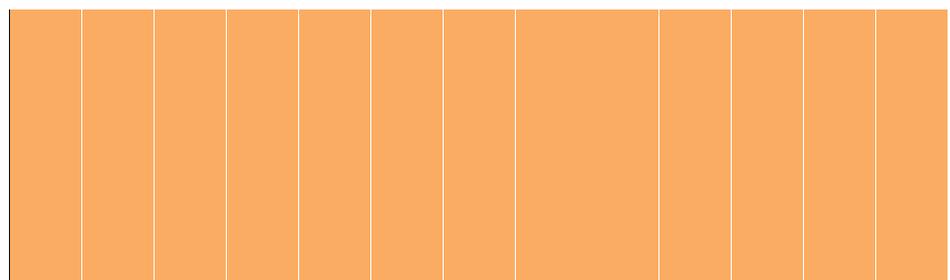
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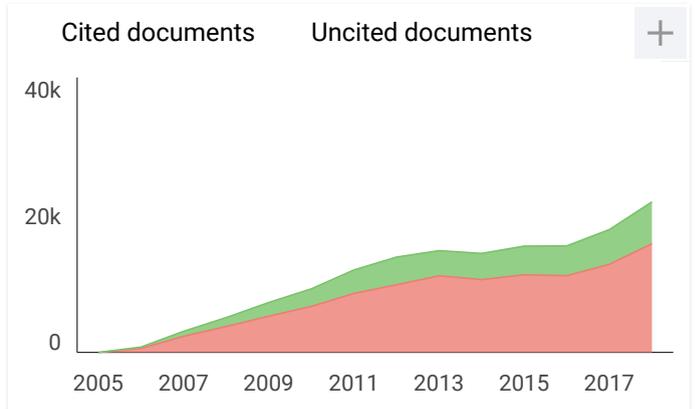
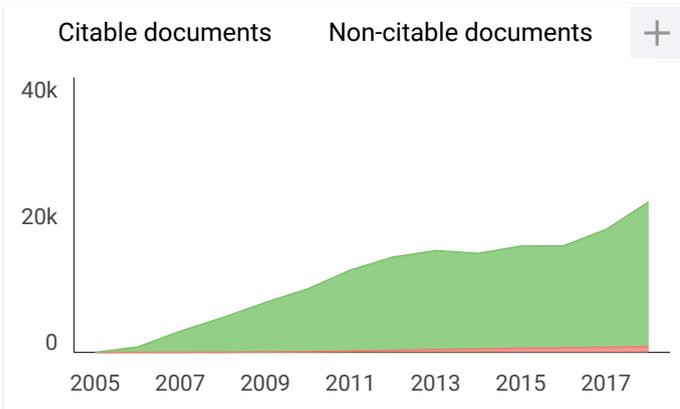
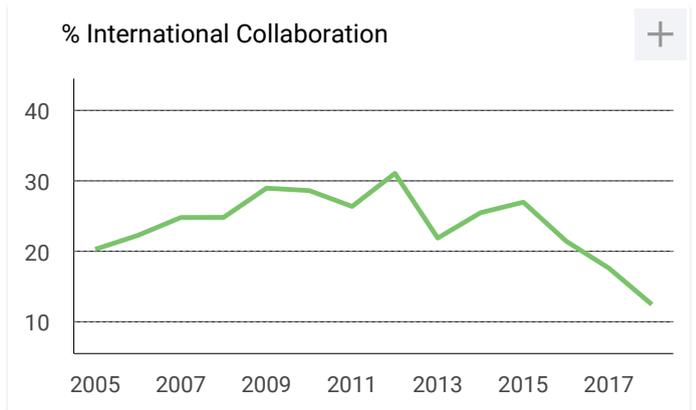
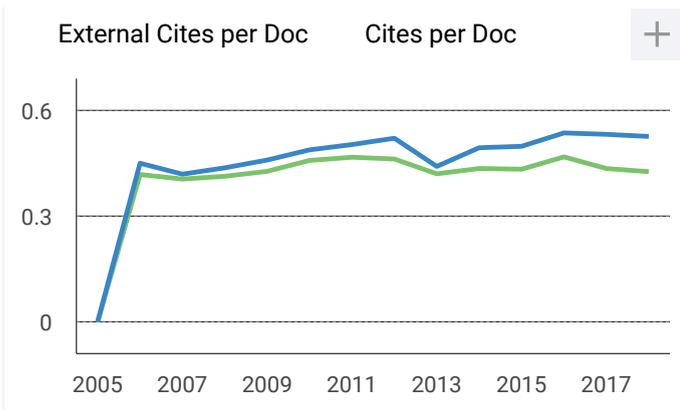
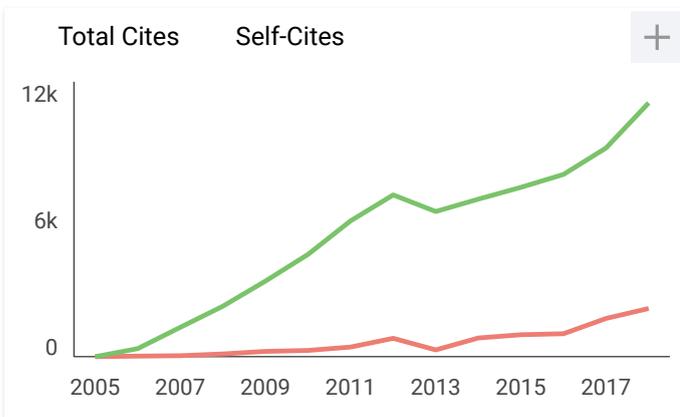
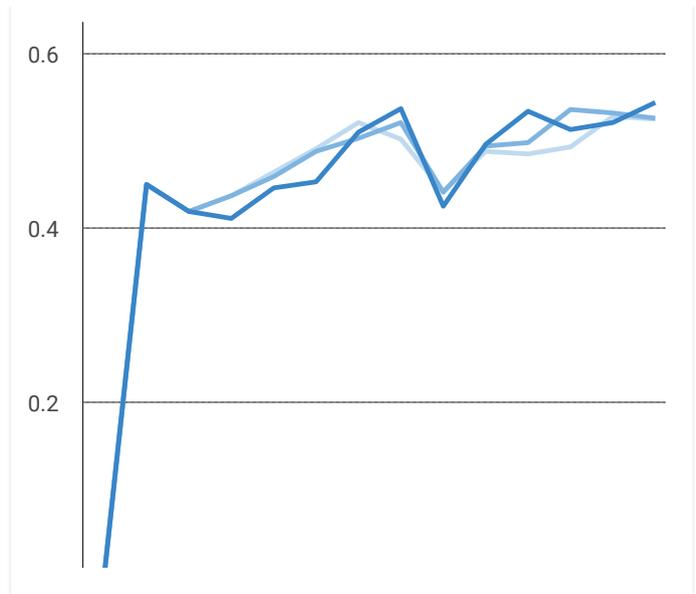
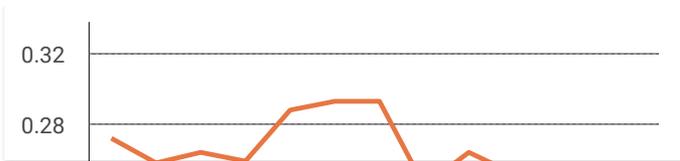
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