

## **ALCHEMY Jurnal Penelitian Kimia**

### **DEWAN EDITOR**

#### **Ketua Dewan Editor**

Dr. Fitria Rahmawati, Program Studi Kimia FMIPA Universitas Sebelas Maret, Indonesia

#### **Dewan Editor**

Dr. Triana Kusumaningsih, Program Studi Kimia FMIPA Universitas Sebelas Maret, Indonesia

Prof. Dr. rer.nat. Gunawan Indrayanto, Fakultas Farmasi, Universitas Airlangga, Indonesia

Dr. Eny Kusrini, Departemen Teknik Kimia, Fakultas Teknik, Universitas Indonesia, Indonesia

Dr. Dani Gustaman Syarif, PSTNT BATAN BANDUNG, Indonesia

Dr. Teguh Endah Saraswati, Program Studi Kimia FMIPA Universitas Sebelas Maret Surakarta, Indonesia

Dr. Desi Suci Handayani, Program Studi Kimia FMIPA Universitas Sebelas Maret

#### **Journal Manager**

Dr. Khoirina Dwi Nugrahaningtyas, M.Si., Program Studi Kimia FMIPA Universitas Sebelas Maret Surakarta, Indonesia

#### **Editor Pelaksana**

Dr. Abu Masykur, Program Studi Kimia FMIPA Universitas Sebelas Maret Surakarta, Indonesia

Candra Purnawan, M. Sc., Program Studi Kimia FMIPA Universitas Sebelas Maret, Indonesia

Muhammad Widyo Wartono, M.Si., Program Studi Kimia FMIPA Universitas Sebelas Maret, Indonesia

Edi Pramono, M.Si, Program Studi Kimia FMIPA Universitas Sebelas Maret, Indonesia

#### **Tim IT**

Rujito Sesariojiwandono Rubiansyah, S.Si., Program Studi Kimia FMIPA Universitas Sebelas Maret Surakarta, Indonesia

Heriyanto, S.Si., Program Studi Kimia FMIPA Universitas Sebelas Maret Surakarta, Indonesia

Viona Natalia, S.Si., Program Studi Kimia FMIPA Universitas Sebelas Maret Surakarta, Indonesia

### **Alamat Penerbit**

Program Studi Kimia Fakultas Matematika dan Ilmu Pengetahuan Alam Universitas Sebelas Maret (UNS)

Jl. Sutami 36A, Ketingan, Surakarta

email: [alchemymipauns@gmail.com](mailto:alchemymipauns@gmail.com)

<https://jurnal.uns.ac.id/index.php?journal=alchemy&page=index>

## DAFTAR ISI

---

EFFECT OF GARLIC POWDER ADDITION TO GELATIN BIOCOSPOSITE ON ITS ANTIBACTERIAL ACTIVITY Pramudita Putri Kusuma, Ganjar Fadillah, Husna Syaima, Teguh Endah Saraswati	1
STUDY OF SYNTHESIS AND CHARACTERIZATION OF METAL-ORGANIC FRAMEWORKS MOF-5 AS HYDROGEN STORAGE MATERIAL Prapti Rahayu, Witri Wahyu Lestari	14
THERMODYNAMIC PROPERTIES AND CHARACTERIZATIONS OF CHITOSAN NANO-PARTICLES CORROSION INHIBITION ON THE SURFACE OF MILD STEEL IN PEAT WATER MEDIA Maria Erna, Emriadi Emriadi, Admin Alif, Syukri Arief	28
MODIFICATION OF SCREEN PRINTED CARBON ELECTRODE BY POLYPYRROLE FOR DETERMINATION OF HYDROQUINONE Khoirul Ngibad, Ani Mulyasuryani, Diah Mardiana	37
THE DEVELOPMENT OF GLUCOSE SENSOR BASED ON SiO <sub>2</sub> -CuO MATERIALS USING SCREEN PRINTED CARBON ELECTRODE (SPCE) Intan Frina Utamiyanti, Barlah Rumhayati, Ani Mulyasuryani	51
SYNTHESIS OF ACTIVATED CARBONS ORIGINATED FROM ORANGE PEEL BY SUBCRITICAL CO <sub>2</sub> ACTIVATION METHOD Arenst Andreas Arie, Emerentina Maerilla Puspaningrum, Henky Muljana	62
BACTERIAL CELLULOSE FROM RICE WASTE WATER AND ITS COMPOSITE WHICH ARE DEPOSITED NANOPARTICLE AS AN ANTIMICROBIAL MATERIAL Eli Rohaeti, Endang W Laksono, Anna Rakhmawati	71
ANTI-HYPERCHOLESTEROLEMIA ACTIVITY OF ETHANOL EXTRACT <i>Peperomia pellucid</i> Chasanah Mazroatul, Glar Donia Deni, Nur Ahmad Habibi, Gita Febri Saputri	89
ASSESSING THE CHEMICAL PROPERTIES OF DAMMAR ASPHALT USING FOURIER TRANSFORM INFRARED SPECTROSCOPY Ary Setyawan, M Fachri, A Sumarsono	96

---