MALAYSIAN JOURNAL OF CHEMISTRY (MJChem)

Published by Institut Kimia Malaysia (Malaysian Institute of Chemistry): e-ISSN 2550-16580

Contents

88 (

Malaysian Journal of Chemistry Volume 25(5), 2023

In Silico Studies of Carotenoids from <i>Chlorella</i> sp. Microalgae against S-Shaped Amyloid Beta Fibril Norzalina Zakaria, Nur Juliyana Bella Hanifah, Siti Nor Ani Azaman and Nur Hana Faujan*	1
Facile Preparation and Characterisation of Oxygen-rich Reduced Graphene Oxide for Improved Electrochemical Performance: A Preliminary Study Mohamad Aliff Bin Ali Rahman, Soon Poh Lee, Kwok Feng Chong and Ellie Yi Lih Teo*	13
Optimization of a Phenytoin-loaded Nanoemulsion Formulation for Parenteral Use in the Treatment of Epilepsy Mavin Yap Chong Yang, Shobna Thuraisingam, Emilia Abdulmalek, Mohd. Basyaruddin Abd Rahman, Hamidon Basri and Norazlinaliza Salim*	23
Evaluation of Gellan Gum-glufosinate Ammonium Beads and its Release Study Performance Nurul Atiqah Azahari, Adila Mohamad Jaafar*, Marwah Rayung, Norhayu Asib and Mazidah Mamat	36
Bulk and Precipitation Polymerization Techniques in Alpha Mangostin Imprinted Polymers Synthesis Neena Zakia*, Muhammad Ali Zulfikar, and Muhammad Bachri Amran	46
Development and Application of Co-C Electrodes for Potentiometric Determination of Phosphate Ion in Agricultural Soils Compared to Spectrophotometric Method Siswoyo Siswoyo*, Lia Indah Wardiyani and Yudi Aris Sulistiyo	51
The Analysis of Catechin and Caffeine in Green Tea Capsules and Teabags using High-Performance Liquid Chromatography Amirah Najihah Mohd Affandi, Wan Nazihah Wan Ibrahim, Hairul Amani Abdul Hamid, Noraini Hamzah and Nursyamsyila Mat Hadzir*	57

Analysis of Flavonoid Levels in Processed Moringa Leaf Products (<i>Moringa oleifera Lam</i>) as a Source of Chemistry Learning Nur Azizah* and Jamaludin M. Sakung	63
Analysis of Flavonoids and Alkaloids on Stick Based on Cham Flour (Sechium edule) Regita Cahyani* and Jamaludin M. Sakung	69
Analysis of Tannins and Saponins in Sticks Made from Chayote Flour (<i>Sechium edule</i>) Nurul Hatifah* and Jamaludin M. Sakung	76
Anammox Microbial Biodiversity in the Karangkates Reservoir Malang and Its Activity as an Ammonia-Rich Waste Degradation Abdul Khafid Syahroni, Eli Hendrik Sanjaya*, Much. Sayfulloh Alwy, Mohd Fadhil MDDin, Hong Chen, Sitoresmi Prabaningtyas, Suharti, Mieke Alvionita and Anugrah Ricky Wijaya	81
Exploration and Characterization of Extracellular Protease Producing Bacteria from Bledug Kuwu and Its Potential in Degrading Chicken Feathers Suharti Suharti*, Nur Faridah, Surjani Wonorahardjo and Mieke Alvionita	88
Identification of Indigenous Wood Rot Fungus from East Java Based of ITS Sequence and Their Ligninolytic Activity in Kirk Medium Evi Susanti*, Suharti, Eli Hendrik Sanjaya, M. Irhamul Iqbal dan Avin Arinta	101
<i>In Vitro</i> Immunomodulatory Activity of Calamansi Orange Peel (<i>Citrus microcarpa</i> Bunge) Essential Oil on Mice Lymphocyte Cell Proliferation Gustria Ernis*, Dyah Fitriani and Yeni Saputri	107
Initial Characterization of Keratinase by <i>Bacillus proteolyticus</i> GAM 15 Isolated from Palangkaraya Peat Soil, Central Kalimantan and Its Application for Goat Skin Dehairing Hanif Nur Rozaq, Andriyani Andriyani and Suharti Suharti*	111
Pectin Extraction from Cocoa Pod Husk Prepared with Various Drying Temperature and Extracting Solvents Anak Agung Istri Ratnadewi*, Ariza Budi Tunjung Sari, Vida Prasetianingtias, Ifah Wilda Qonita and Yeni Maulidah	118
Potential of East Java Indigenous Anammox Microbes from Selorejo Reservoir as Degrading Agents of Ammonia Wastewater Much. Sayfulloh Alwy, Eli Hendrik Sanjaya*, Abdul Khafid Syahroni, Mohd Fadhil MD Din, Suharti Suharti, Mieke Alvionita, Anugrah Ricky Wijaya, Muntholib Muntholib, Sitoresmi Prabaningtyas and Hong Chen	124

Exploring Hylocereus spp and Its Potential Applications: A Review Nur Syaza Iman Muhamad Salleh, Hairul Amani Abdul Hamid*, Nursyamsyila Mat Hadzir, Siti Wahidah Puasa, Noraini Hamzah and Ayub Md Som	130
Hydrogel–Collagen/PVA as Artificial Cartilage for Osteoarthritis Application Prihartini Widiyanti*, Siswanto and Desi Darmawani	147
Synthesis and Characterization of Bacterial Cellulose – Collagen – Glycerol as Artificial Dura Mater Prihartini Widiyanti*, Inas Fatimah and Adri Supardi	154
Cinnamamide Derivatives as Anticancer Agent: Study of Molecular Docking, Molecular Dynamic Simulation, and ADMET Properties Herlina Rasyid*, Firdaus, Nunuk Hariani Soekamto, Seniwati, Syadza Firdausiah, Bahrun and Wahyu Dita Saputri	160
Development of Machine Learning-Based QSAR Model for Virtual Screening of Dipeptidyl Peptidase-4 Inhibitors Salsabila Safa, A. B. S., Sudarko*, Zulfikar, Anak Agung Istri Ratnadewi and Wuryanti Handayani	168
Approaching Formaldehyde Reduction using Chestnut as Bio Scavenger Mustafidah Udkhiyati*, Nur Mutia Rosiati, Laili Rachmawati and Emiliana Anggriyani	175
Biodegradability Study on the Bioplastic Derived from Banana Peel Fruit Waste with Various Ripening Stages Azizan Nur Azfira, Abdul Rahman Wahida* and Nor Mohammed Nur Izzati	180
Biopolymer Composite Beads of Calcium Alginate-Fly Ash for Efficient Adsorption of Rhodamin B Dye Perwitasari*, Heni Anggorowati and Indriana Lestari	190
Synthesis of Polyaniline Film via Vapor Phase Polymerization: Study of Effect of Temperature and Different Substrate on Film Conductivity Tyara Salsabila Alicia Putri, Donatus Setiawan, Dwi Indarti and Bambang Piluharto*	195
The Influence of Alkali Treatment and Multi Fraction Cantala Fiber Reinforced Carbon Nanotube Composite on Mechanical Properties and Morphological Sakuri Sakuri*, Nana Supriyana, S. Sutarno and Tarsono Dwi Susanto	201
Flower Extract Tapak Dara (<i>Catharanthus roseus</i> L) as Acid–Base Indicator Sitti Rahmawati*, Sitti Aminah, Siti Nuryanti, Vivi Dia Afrianti Sangkota and Hapsarina	207

Toxicity Analysis of Flavonoid Compounds in Majapahit Leaf Extract (<i>Crescentia cujete</i>) Against Various Cancer Cell Lines Using CLC-pred Tools Program	216
Fatimah*, Rahma Diyan Martha and Danar	
Effect of Humidifier Temperature and Hydrogen Flow Rate on MEA	223
Performance of PEMFC Using Pt/C and Pd-Co/C Catalyst	
Dedi Rohendi*, Nirwan Syarif, Arsali, Dwi Hawa Yulianti , Nikea Ry Anjeli,	
Nyimas Febrika S. and Icha Amelia	
Effect of Additional Red Dragon Fruit Peel and Lemon Peel in the	230
Development of Coconut Water Fermented Beverage Products using	
Lactic Acid Bacteria to Increase Antibacterial Activity	
Sofi Nabila, Arie Srihardyastutie*, Sasangka Prasetyawan, Aulani'am and	
Rurini Retnowati	
Essential Oil of Elephant Ginger (Zingiber officinale R.), Antioxidant and	239
Sunscreen Activity and Its Formulation Tests as Sunscreen Cream	
Sutrisno* and Moh. Ajirul Abiq	
Antioxidant and Sunscreen Activities of Cananga Oil and Its Formulation	251
Test as A Facial Spray	
Sutrisno* and Savira Nuraulia Putri	