

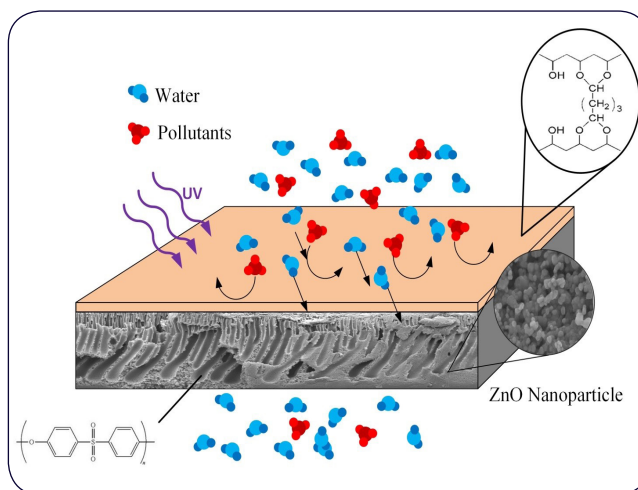
Graphical Abstracts

Research Paper

Performance Evaluation of PES-ZnO Nanohybrid using a Combination of UV Irradiation and Cross-linking for Wastewater Treatment of the Rubber Industry to Clean Water

Tutuk Djoko Kusworo ^{*,1,2}, Nita Aryanti ^{1,2}, Dani Puji Utomo ¹, Enny Nurmala ¹¹ Department of Chemical Engineering, Faculty of Engineering, University of Diponegoro, Semarang, Indonesia² Membrane Research Center (Mer-C), University of Diponegoro, Semarang, Indonesia

DOI: 10.22079/JMSR.2020.120490.1334

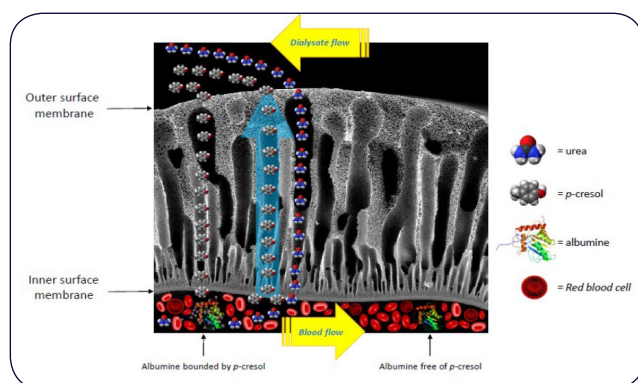


Research Paper

Effect of Polymer Loading on Membrane Properties and Uremic Toxins Removal for Hemodialysis Application

Yanuardi Raharjo ^{1,2,*}, Ahmad Fauzi Ismail ^{1,*}, Mohd Hafiz Dzarfan Othman ¹, Sarina Mat Rosid ¹, Mohd Ariff Azali ¹, Djoko Santoso ³¹ Advanced Membrane Technology Research Centre (AMTEC), School of Energy & Chemical Engineering, Faculty of Engineering, Universiti Teknologi Malaysia, 81310, Skudai, Malaysia² Membrane Science and Technology Research Group (MSTRG), Chemistry Department, Faculty of Science and Technology, Universitas Airlangga, Surabaya, Indonesia³ Division of Nephrology and Hypertension, Dr Soetomo Hospital, Faculty of Medicine, Universitas Airlangga, Surabaya, Indonesia

DOI: 10.22079/JMSR.2020.119864.1321

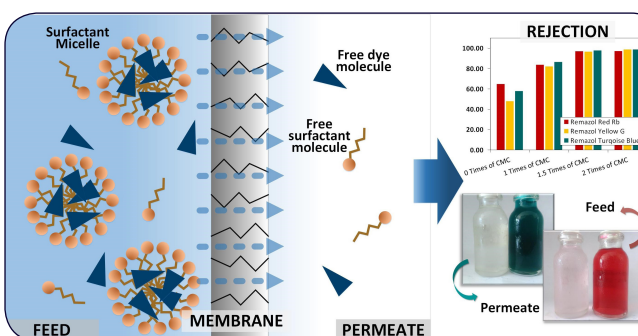


Research Paper

Separation of Reactive Dyes using Natural Surfactant and Micellar-Enhanced Ultrafiltration Membrane

Nita Aryanti ^{1,2,*}, Aininu Nafunisa ¹, Tutuk Djoko Kusworo ^{1,2}, Dyah Hesti Wardhani ¹¹ Department of Chemical Engineering, Diponegoro University, Semarang, Indonesia² Membrane Research Centre (MeR-C), Diponegoro University, Semarang, Indonesia

DOI: 10.22079/JMSR.2020.120604.1335



Graphical Abstracts

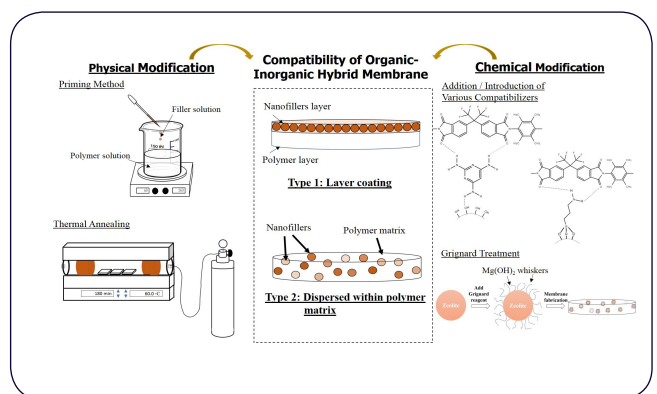
Analysis of Organic-Inorganic Compatibility to Synthesis Defect Free Composite Membrane: A Review

Guang Hui Teoh ¹, Peng Chee Tan ², Abdul Latif Ahmad ¹, Siew Chun Low ^{1,*}

¹ School of Chemical Engineering, Engineering Campus, Universiti Sains Malaysia, Seri Ampangan, 14300 Nibong Tebal, Pulau Pinang, Malaysia

² School of Energy and Chemical Engineering, Xiamen University Malaysia Campus, Jalan Sunsuria, Bandar Sunsuria, 43900 Sepang, Selangor, Malaysia

DOI: 10.22079/JMSR.2020.120179.1328

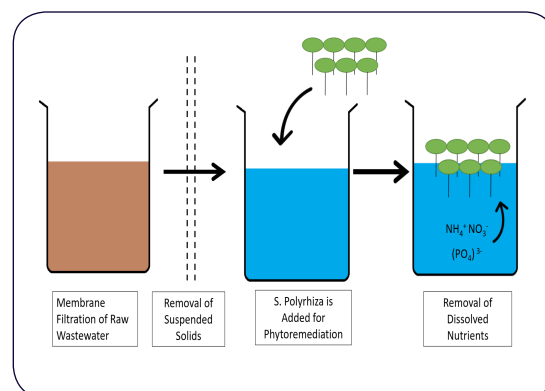


Membrane Filtration Pretreatment and Phytoremediation of Fish Farm Wastewater

Daniel Nesan, Navin Kumar Rajantrakumar, Derek Juinn Chieh Chan*

School of Chemical Engineering, Universiti Sains Malaysia, 14300 Nibong Tebal, Penang, Malaysia

DOI: 10.22079/JMSR.2020.120104.1324



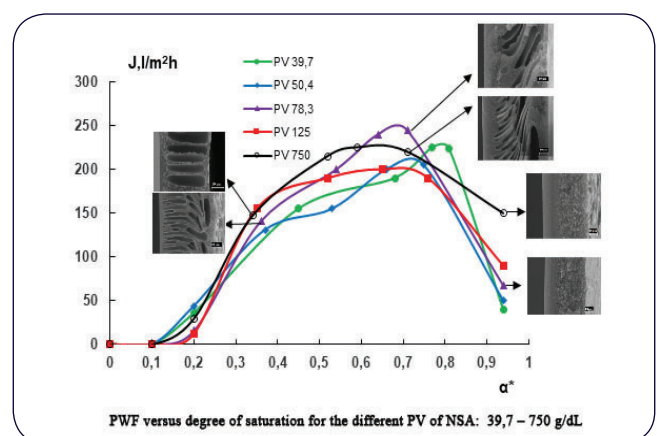
Effect of Non-Solvent Additives to the Casting Solution on the Structure and Properties of Polyethersulfone UF Membranes

Alexandr Bildyukevich ¹, Tatsiana Hliavitskaya ^{1,*}, Galina Melnikova ²

¹ Institute of Physical Organic Chemistry, National Academy of Sciences of Belarus, 13 Surganov Street, Minsk 220072, Belarus

² The A.V. Luikov Heat and Mass Transfer Institute, National Academy of Sciences of Belarus, 15 P. Brovki Street, 220072 Minsk, Belarus

DOI: 10.22079/JMSR.2020.123606.1361



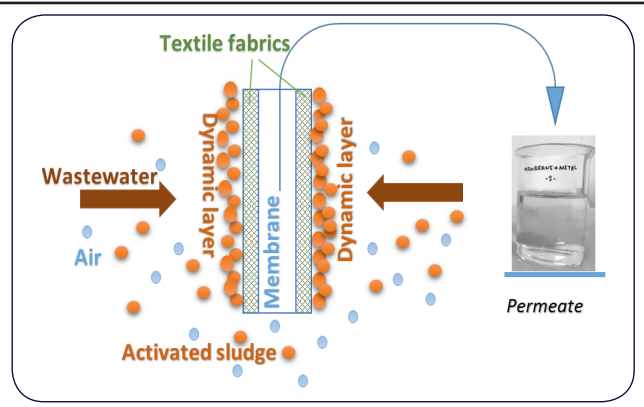
Efficient Treatment of Domestic Wastewaters by Using a Dynamic Membrane Bioreactor System

Azize Ayol ^{*,1}, Yaşar Onur Demiral ², Sinem Güneş ²

¹ Dokuz Eylül University, Department of Environmental Engineering, Tinaztepe Campus, 35160, Buca, Izmir, Turkey

² Dokuz Eylül University, Graduate School of Natural and Applied Sciences, Environmental Engineering, Izmir, Turkey

DOI: 10.22079/JMSR.2020.120244.1330



Graphical Abstracts

Development of Palm Oil-Based Synergist Liquid Membrane Formulation for Silver Recovery from Aqueous Solution

Norela Jusoh ¹, Norasikin Othman ^{1,2,*}, Raja Norimie Raja Sulaiman ^{1,2}, Norul Fatiha Mohamed Noah ¹, Khairul Sozana Nor Kamarudin ¹, Muhammad Abbas Ahmad Zaini ^{1,2}, Dilaeleyana Abu Bakar Sidik ³

¹ School of Chemical and Energy Engineering, Faculty of Engineering, Universiti Teknologi Malaysia, 81310 UTM Johor Bahru, Johor, Malaysia

² Centre of Lipids Engineering and Applied Research (CLEAR), Ibnu Sina Institute for Scientific and Industrial Research (ISI-SIR), Universiti Teknologi Malaysia, 81310 UTM Johor Bahru, Johor, Malaysia

³ Department of Science and Mathematics, Centre of Diploma Studies, Universiti Tun Hussein Onn Malaysia, 84600 Muar, Johor, Malaysia

DOI: 10.22079/JMSR.2020.122768.1353

