



# Curriculum Vitae

## Department of Agricultural Engineering

### Universitas Brawijaya

<b>Name</b>	<b>Dr. Yusuf Wibisono, STP., M.Sc.</b>		
<b>Position</b>	<i>Teaching area: Biomaterials and Membrane Processes</i> <i>Assistant Professor in Bachelor of Bioprocess Engineering Study Programme</i>		
<b>Academic career</b>	<b>Initial academic appointment</b>	<i>Agricultural Engineering Department, Universitas Brawijaya</i>	<i>2002</i>
	<b>Doctoral degree</b>	<i>Chemical Engineering, University of Twente, The Netherlands</i>	<i>2014</i>
	<b>Master degree</b>	<i>Materials and Chemical Engineering, Chung Yuan Christian University, Taiwan</i>	<i>2009</i>
	<b>Undergraduate degree</b>	<i>Agricultural and Biosystem Engineering, IPB University, Indonesia</i>	<i>2002</i>
<b>Employment</b>	<b>Lecturer</b>	<i>Agricultural Engineering Department, Universitas Brawijaya</i>	<i>2002-Now</i>
	<b>Researcher</b>	<i>KWR Watercycle Research Institute and Wetsus, European Centre of Excellence for Sustainable Water Technology</i>	<i>2010-2014</i>
<b>Research and development projects over the last 5 years</b>	<ul style="list-style-type: none"> <li>- <i>Application of Cross Flow Ultrafiltration Membrane (UF) in the Harvesting of Microalgae as an Alternative Source Of Biodiesel Raw Materials, 2017, 12M IDR</i></li> <li>- <i>Development of mixed matrix membrane with biofouling reducer agents for juice clarification, 2017-2018, 220M IDR</i></li> <li>- <i>Development of Chitosan Membranes with Natural Antimicrobial Substances for Drinking Water Processing in accordance with the Halal Toyyiban Production System, 2018, 6M IDR</i></li> <li>- <i>Synthesis of Nanostructured Lipid Carrier (NLC) for Kaempferol Delivery System, 2019, 36 M IDR</i></li> <li>- <i>Membrane surface patterning as fouling mitigation strategy in liquid filtration: a review, 2019, 24M IDR</i></li> <li>- <i>Insight into the Sustainable Integration of Bio-and Petroleum Refineries for the production of Fuels and Chemicals, 2019, 28M IDR</i></li> <li>- <i>The water flux Dynamic in a Hybrid Forward Osmosis-Membrane Distillation for Produced Water Treatment, 2019, 8M IDR</i></li> <li>- <i>Response Surface Methodology (RSM) Application for Modeling and Optimization of Biological Systems, 2019, 10M IDR</i></li> <li>- <i>Design of Portable Point of Use Drinking Water Treatment Using Filtration and Ultraviolet, 2019, 20M IDR</i></li> <li>- <i>Design of membrane plate-and-frame using natural antibiofoulant phenolic powder for juice clarification and concentration, 2019-2021, 487M IDR</i></li> <li>- <i>Forward osmosis fertigation for saline rice field, 2019-2021, 562M IDR</i></li> </ul>		

	<ul style="list-style-type: none"> <li>- <i>Fabrication of bioceramic membrane for oligosaccharide separation of goat milk, 2019-2021, 196M IDR</i></li> <li>- <i>Formulation and Synthesis of Slow Release Fertilizer for Vegetable and Fruit Plants Based on Hydroxyapatite of Crab Shell, 2020, 4M IDR</i></li> <li>- <i>Design of Fruit Juice Clarifier and Concentrator Using Plate and Frame Membrane with Natural Antibiofoulant Phenolic Powder (NAPP), 2020, 170.188M IDR</i></li> <li>- <i>Anti-algal surface engineered by using charged hydrophilic polymer for multipurposes in aqueous systems, 300K JPY</i></li> </ul>
Industry collaborations over the last 5 years	<ul style="list-style-type: none"> <li>- <i>Development of demineralized water instrument – PT. Mili Water</i></li> <li>- <i>Ministry of Research and Technology of the Republic of Indonesia, (2017-2020)</i></li> </ul>
Patents and proprietary rights	<ul style="list-style-type: none"> <li>- <i>Mixed matrix membrane with natural biofouling reducer agents Nanoparticle hydroxyapatite derived from fish scales for slow-release fertilizer</i></li> </ul>
Important publications over the last 5 years	<p><i>Selected recent publications from a total of approx. 60 articles:</i></p> <ul style="list-style-type: none"> <li>- <b>Y Wibisono</b>, MR Bilad. 2020. <i>Design of forward osmosis system</i>, in Current Trends and Future Developments on (Bio-) Membranes: Reverse and Forward Osmosis: Principles, Book published by Elsevier</li> <li>- <b>Y Wibisono</b>, CR Fadila, S Saiful, MR Bilad. 2020. <i>Facile approaches of polymeric face masks reuse and reinforcements for micro-aerosol droplets and viruses filtration: A review</i>. <i>Polymers</i> 12 (5) (MDPI, Q1, SCI Impact Factor: 3.426)</li> <li>- <b>Y Wibisono</b>, WA Nugroho, LA Devianto, AA Sulianto, MR Bilad. 2019. <i>Microalgae in food-energy-water nexus: A review on progress of forward osmosis applications</i>. <i>Membranes</i> 9 (12) (MDPI, SCI Impact Factor: 3.094)</li> </ul>
Activities in specialist bodies over the last 5 years	<ul style="list-style-type: none"> <li>- <b>Korean Society for Agricultural Machinery (KSAM)</b> – selected as Editor Board of official journal of the society (<i>Journal of Biosystems Engineering</i>), url:<a href="https://www.springer.com/journal/42853/editors">https://www.springer.com/journal/42853/editors</a></li> </ul>