

# ANELYN P. BENDOY



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## EDUCATION

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| 2008 – 2010 | Master of Science in Chemistry<br>Mindanao State University- Iligan Institute of Technology, Iligan City<br><b>Thesis Title:</b> Synthesis, Morphological and Structural Characterization of the Moisture Absorber <i>para</i> -Toluene Sulfonic Acid-doped Polyaniline |
| 2003-2007   | Bachelor of Science in Chemistry<br>Mindanao State University- Iligan Institute of Technology, Iligan City<br><b>Thesis Title:</b> Partial Isolation of the Antimicrobial Components from the Leaves of <i>Intsia bijuga</i> , "Ipil"                                   |
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## RESEARCH PUBLICATIONS

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| 2021 | H. Zeweldi, <b>A. Bendoy</b> , MJ Park, HK Shon, HS Kim, E. Johnson, H Kim, WJ. Chung, G. Nisola. Supramolecular host-guest complex of methylated $\beta$ -cyclodextrin with polymerized ionic liquid ([vbim]TFSI) <sub>n</sub> as highly effective and energy-efficient thermo-regenerable draw solutes in forward osmosis. <i>Chemical Engineering Journal</i> 411, 128520 |
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- 2021 H. Zeweldi, **A. Bendoy**, MJ Park, HK Shon, HS Kim, E. Johnson, H Kim, WJ. Chung, G. Nisola. Forward osmosis with direct contact membrane distillation using tetrabutylphosphonium p-toluenesulfonate as an effective and safe thermo-recyclable osmotic agent for seawater desalination. *Chemosphere* 263, 128070
- 2021 E. Escobarab, JE. Sio, **A. Bendoy**, R.E. Torrejos, H. Fissaha, H.Kim, WJ Chung, G. Nisola. Removal of Cs<sup>+</sup> in water by dibenzo-18-crown-6 ether tethered on mesoporous SBA-15 as a reusable and efficient adsorbent. *Journal of Water Process Engineering* 39, 101716.
- 2020 H. Zeweldi, **A. Bendoy**, MJ Park, HK Shon, HS Kim, E. Johnson, H Kim, SP Lee, WJ. Chung, G. Nisola. Tetrabutylammonium 2,4,6-trimethylbenzenesulfonate as an effective and regenerable thermo-responsive ionic liquid drawing agent in forward osmosis for seawater desalination. *Desalination* 495, 114635
- 2018 H. Zeweldi, L. Limjuco, **A. Bendoy**, HS Kim, MJ Park, HK Shon, E. Johnson, HK Lee, WJ. Chung, G. Nisola. 2018. The potential of monocationic imidazolium-, phosphonium-, and ammonium-based hydrophilic ionic liquids as draw solutes for forward osmosis. *Desalination* 444, 94 – 106.
- 2014 **Bendoy A**, Uy M and Vequizo, R. 2014. Morphology, Structural Characterization and Investigation of Moisture Absorbing Ability of the Synthesized Para-Toluene Sulfonic Acid-Doped Polyaniline. *Journal of Chemical, Biological and Physical Sciences Vol. 4, No. 4; 3124-3130.*
- 2014 Ganot S and **Bendoy A**. 2014. Anthelmintic Activities of the Decoction and the Hexane-Soluble Extracts and its Fractions from the Aerial Parts of *Cyperus Brevifolious* Rottb. *Asia-Pacific Journal of Science, Mathematics and Engineering Vol 2*
- 2012 Picardal J, **Bendoy A** and Calumba J. 2012. Impacts of Waste Disposal Practices and Water Utilization of Riverside Dwellers on Physicochemical

and Microbiological Properties of Butuanon River, Central Visayas. CNU  
*Journal of Higher Education, Vol. 6*

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## **PROFESSIONAL AFFILIATION**

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2010 to present Member, Integrated Chemist of the Philippines

2010 to present Kapisanang Kemika ng Pilipinas, Region 10

2017 to present Korean Membrane Society

2016 to present Korean Institute of Chemical Engineers

2018 to present Korean Environmental Engineers

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