



**LIST OF GRADUATE THESES
as of October 2021**

Master of Science in Chemical Engineering

- Abaricia, C. P. (2004). *The effects of temperature, blower speed, and speed of LK stenter machine on the finishing of fabrics* [Master's Thesis, MSCHE]. School of Graduate Studies, Mapua Institute of Technology.
- Abdolvahab S. (2020). *Development of a New Process of LNG Production to Decrease Energy Consumption Using Absorption Refrigeration System* [Master's Thesis, MSCHEM]. School of Graduate Studies, Mapua University.
- Abdon, R. G. P. (2006). *In vitro screening of eggshell-substituted bioactive glass* [Master's Thesis, MSCHE]. School of Graduate Studies, Mapua Institute of Technology.
- Antonio-Sevilla, U. T. M. (2004). *Characterization of polyvinyl alcohol and kappa-carrageenan film blends* [Master's Thesis, MSCHE]. School of Graduate Studies, Mapua Institute of Technology.
- Austria, M. (2014). *Design and computational fluid dynamics (CFD) simulation of a microfluidics-based polymerase chain reaction (PCR) for Plasmodium falciparum* [Master's Thesis, MSCHE]. School of Graduate Studies, Mapua Institute of Technology.
- Bamba, J. N. Y. (2021). *Anaerobic Co-digestion of Sugarcane Wastes: Effects of Pretreatments and Nutrient Supplementation for Enhanced Biogas Production* [Master's Thesis, MSCHE]. School of Graduate, Mapua University.
- Bismonte, M. E. (2018). *Alcohol dehydration performance of reduced graphene oxide-graphene quantum dot nanocomposite filler in polymeric pervaporation composite membrane* [Master's Thesis, MSCHE]. School of Graduate, Mapua University.
- Bunquin, R.M.A. (2020). *Prediction of the Heat Capacity, Surface Tension, and Viscosity of NH₄⁺- and PH₄⁺-based Deep Eutectic Solvents using Artificial Neural Network* [Master's Thesis, MSCHE]. School of Graduate, Mapua University.
- Capor, R. R. B. (2018). *Viability of macro air interconnected coating that utilizes expanded polystyrene in the construction of lightweight partitions for residential units* [Master's Thesis, MSCHE]. School of Graduate, Mapua University.
- Castaneda, C. L. (2006). *Response of chironomids to Cu²⁺ Cd²⁺ and Pb²⁺ metal ions using 96-hour toxicity test and the effects of different substrate characteristics on metal accumulation* [Master's Thesis, MSCHE]. School of Graduate Studies, Mapua Institute of Technology.
- Chavez, E. B. (2008). *Recycled tiles from styro-oyster shell (conradostra lawrencei)* [Master's Thesis, MSCHE]. School of Graduate Studies, Mapua Institute of Technology.



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- Cruz, R. A. T. (2020). *Facile Synthesis of Organo-conjugated Carbon Quantum Dots from Glycerol via Full-Factorial Design Approach* [Master's Thesis, MSCHE]. School of Graduate Studies, Mapua University.
- Cuanang, J. C. (2018). *Photocatalytic degradation of 1-Naphthyl methyl carbanate (carbaryl) in batch UV LED reactor using titanium dioxide as catalyst* [Master's Thesis, MSCHE]. School of Graduate Studies, Mapua University.
- Dagdag-Santos, N. (1999). *Gum from saluyot (corchorus olitorius) leaves as thickening agent.* [Master's Thesis, MSCHE]. School of Graduate Studies, Mapua Institute of Technology.
- De Castro, K. A. (2004). *A DFT study on the enantioselectivity of asymmetric allylic alkylation substitution reaction using pyridine-pyrrolidine ligands* [Master's Thesis, MSCHE]. School of Graduate Studies, Mapua Institute of Technology.
- Esberto, E. H. B. (2006). *Determination of heavy metals concentration in bone-ash substituted bioactive glass* [Master's Thesis, MSCHE]. School of Graduate Studies, Mapua Institute of Technology.
- Espejo, R. E. A. (2004). *Determination of a suitable nonionic surfactant in the wastewater treatment of oil and grease in an electronics manufacturing company* [Master's Thesis, MSCHE]. School of Graduate Studies, Mapua Institute of Technology.
- Espiritu, E. S. (2013). *Thermophysical Property Characterization of EG-based (DEG/TEG/T4EG) and PG-based (PG/DPG/TPG/) Glycols + TRIS + Water: Measurements and Correlations* [Master's Thesis, MSCHE]. School of Graduate Studies, Mapua Institute of Technology.
- Fadol, F. M. (1998). *A practicum project paper on standardizing SCC's quality system* [Master's Thesis, MSCHE]. School of Graduate Studies, Mapua Institute of Technology.
- Fowler, P.M.P.T. (2020). *Low-energy Zwitterionization of Expanded Poly(tetrafluoroethylene) via Dopamine-Assisted Consecutive Immersion Coating for Enhanced Biocompatibility* [Master's Thesis, MSCHE]. School of Graduate Studies, Mapua University.
- Geron, M. F. M. (2005). *Synthesis and characterization of homobimetallic ruthenium and heterobimetallic ruthenium-rhodium complexes* [Master's Thesis, MSCHE]. School of Graduate Studies, Mapua Institute of Technology.



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- Giray, E. A. (2001). *Environmental campus audit: an assessment of the quality of food served at P.U.P. community* [Master's Thesis, MSCHE]. School of Graduate Studies, Mapua Institute of Technology.
- Guamos, A. G. (2006). *Development and characterization of fiber reinforced plastic for anti-riot shield* [Master's Thesis, MSCHE]. School of Graduate Studies, Mapua Institute of Technology.
- Gundayao, F. A. (1999). *A proposed design of Xanland place sewage treatment plant* [Master's Thesis, MSCHE]. School of Graduate Studies, Mapua Institute of Technology.
- Halabaso, E. R. (2018). *Slow Pyrolysis of Kitchen Waste: Investigation of Pyrolysis Temperature Effects and Evaluation of Biochar Products* [Master's Thesis, MSCHE]. School of Graduate Studies, Mapua Institute of Technology.
- Javier, N. C. (2013). *Fuzzy Logic-Based Two degree of freedom Robotic Arm Movement* [Master's Thesis, MSCHE]. School of Graduate Studies, Mapua Institute of Technology.
- Landingin, J. G. (2017). *Beta-isotactic polypropylene (B-iPP) formation in electrospun isotactic polystyrene (iPS)-filled iPP and crystallization kinetics at different process conditions* [Master's Thesis, MSCHE]. School of Graduate Studies, Mapua University.
- Lapira, J. A. (2002). *Use of bottom ash from the Batangas coal fired thermal power plant as agricultural soil amendment* [Master's Thesis, MSCHE]. School of Graduate Studies, Mapua Institute of Technology.
- Leron, G. M. (2003). *Effects of destructive and non-destructive conditioning processes prior to flotation on the properties of recycled PET* [Master's Thesis, MSCHE]. School of Graduate Studies, Mapua Institute of Technology.
- Lopez-Lozano, L. (1999). *Aluminum levels in four (4) selected Filipino dishes cooked in aluminum pans.* [Master's Thesis, MSCHE]. School of Graduate Studies, Mapua Institute of Technology.
- Lorenzo, M. C. M. (2017). *Liquid Foundation Formulation Containing Kaolin Clay and Herbal Oils in Oil-in Water Emulsion* [Master's Thesis, MSCHE]. School of Graduate Studies, Mapua Institute of Technology.
- Macni, C. R.M. (2020). *Mitigating the Fouling of Mixed-Matrix Cellulose Acetate Membranes for Oil-Water Separation Through Modification with Polydopamine Particles* [Master's Thesis, MSCHE]. School of Graduate Studies, Mapua University.



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as of October 2021**

Master of Science in Chemical Engineering

- Maganto, H.L. C. (2020). *Improved Performance of Mixed-Matrix Nanocomposite NF Membranes Modified by Blending Polydopamine / Silver-Polydopamine Nanoparticles for Dye Desalination and Induced Antibacterial Function* [Master's Thesis, MSCHE]. School of Graduate Studies, Mapua University.
- Mamuad, R. Y. (2015). *Factors Affecting Oxalate Recovery from Wastewater in Fluidized Bed reactor* [Master's Thesis, MSCHE]. School of Graduate Studies, Mapua Institute of Technology.
- Manuel, J. T. M. (2014). *Optimization of the drying parameter for the short-form and tall-form spray dryer producing powered egg with 20% tapioca starch additive* [Master's Thesis, MSCHE]. School of Graduate Studies, Mapua Institute of Technology.
- Marquez, A. R. D. (1999). *Effective method of production of citric acid in the Philippines* [Master's Thesis, MSCHE]. School of Graduate Studies, Mapua Institute of Technology.
- Miranda, M. A. (2003). *Isolation and structural elucidation of diterpene constituent in the leaves of makahia (mimosa pudica linn)* [Master's Thesis, MSCHE]. School of Graduate Studies, Mapua Institute of Technology.
- Ngo, R. L. (2001). *Hazardous wastes management plan for the general chemistry laboratories of the Mapua Institute of Technology* [Master's Thesis, MSCHE]. School of Graduate Studies, Mapua Institute of Technology.
- Noa, E. V. (1999). *Isolation and identification of the tannin present in freeze-dried and oven-dried peeling of musa paradisiacal linn.var.compressa (saba banana)* [Master's Thesis, MSCHE]. School of Graduate Studies, Mapua Institute of Technology.
- Osia, J. M. L. (2017). *Degradation of Methylene Blue and Rhodamine B Utilizing Cobalt-impregnated Zeolite Beta via Sulfate Radical-based Advance Oxidation Process* [Master's Thesis, MSCHE]. School of Graduate Studies, Mapua University.
- Pabustan, M. M. (2008). *Process designs and development of lithium complex grease* [Master's Thesis, MSCHE]. School of Graduate Studies, Mapua Institute of Technology.
- Pouriman, M. (2015). *Preparation and Characterization of HDPE-Salago Fibre (genus Wikstroemia Spp.) Composite* [Master's Thesis, MSCHE]. School of Graduate Studies, Mapua Institute of Technology.



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- Quintana, A. M. M. Y. (2018). *Development of technical safety layouts using CFD modelling of CO₂ modelling CO₂ dispersions from bioethanol fermentor tanks*. [Master's Thesis, MSCHE]. School of Graduate Studies, Mapua University.
- Quiton, K. G. N. (2015). *Hexavalent Chromium and Bivalent Zinc Removal from Aqueous Solutions using Kaolin-Supported Bacterial Biofilms of E. Coli and S. Epidermidis* [Master's Thesis, MSCHE]. School of Graduate Studies, Mapua Institute of Technology.
- Rubi, R. V. C. (2005). *In vitro biocompatibility of bioactive fluoro apatite glass-ceramics from bone ash* [Master's Thesis, MSCHE]. School of Graduate Studies, Mapua Institute of Technology.
- Rubio, M. F. C. (2017). *Reduction of Pollution Load in Selected Tributaries of Manila Bay Region Using Phytoremediation and Bioaugmentation* [Master's Thesis, MSCHE]. School of Graduate Studies, Mapua University.
- Soriano, A. N. (2003). *A study on the effect of basis sets and electron correlation on the determination of the optimum level of theory toward the development of Quantum-based force field equation for ionic liquids* [Master's Thesis, MSCHE]. School of Graduate Studies, Mapua Institute of Technology.
- Tupas-Mansat, M. B. S. (1999). *Flour from breadfruits (camansi, rimas and jackfruit) as substitute for all-purpose flour: a comparative study* [Master's Thesis, MSCHE]. School of Graduate Studies, Mapua Institute of Technology.
- Velarde, H. C. (2002). *Effect of level of shellac coating film on the moisture content, disintegration, dissolution and assay of ferrous sulfate + folic acid tablets* [Master's Thesis, MSCHE]. School of Graduate Studies, Mapua Institute of Technology.
- Villa, J. F. (1998). *A study on wastewater treatment plant operations of Pharagon Semiconductors Philippines, Inc.* [Master's Thesis, MSCHE]. School of Graduate Studies, Mapua Institute of Technology.
- Villando, A. C. (2014). *Thermophysical Characteristics of Aqueous Potassium and Sodium Salts of Aminiacaproic acid and L-lysine* [Master's Thesis, MSCHE]. School of Graduate Studies, Mapua Institute of Technology.



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