



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

**Master of Science in Materials Science and Engineering**

- Aguirre, A. F. (2011). *Development of thermally-sprayed carbon nanotube nano alumina matrix composite*. [Master's Thesis, MSMS]. School of Graduate Studies, Mapua Institute of Technology.
- Asuncion, H. T. (2011). *A reliability assessment of silver-filled epoxy with HNT-Clay nanocomposite using thermal cycling for power semiconductor applications* [Master's Thesis, MSMS]. School of Graduate Studies, Mapua Institute of Technology.
- Calderon, A. D. (2009). *Synthesis and characterization of melt intercalated acrylonitrile butadiene styrene-organically modified montmorillonite nanocomposites* [Master's Thesis, MSMS]. School of Graduate Studies, Mapua Institute of Technology.
- Caranguian, K. C. (2015). *Preparation and Optimization of Carbon Black Precursor from Coconut Shell and Sugarcane by Hydrolysis-Carbonization* [Master's Thesis, MSMS]. School of Graduate Studies, Mapua Institute of Technology.
- Clemente, R. Q. (2010). *Board-level solder joint reliability and finite element modeling of carbon nanotube-filled Pb free solder alloy on QFN packages* [Master's Thesis, MSMS]. School of Graduate Studies, Mapua Institute of Technology.
- Cortez, A. C. (2009). *Development and characterization of electrospun polylactic acid-montmorillonite nanocomposites for electronics packaging application* [Master's Thesis, MSMS]. School of Graduate Studies, Mapua Institute of Technology.
- Cosico, J. A. M. C. (2020). *Sonochemically-Assisted Samarium-Doped Copper (II) Oxide Nanostructures as Potential Component in P-N Junction Devices* [Master's Thesis, MSMS]. School of Graduate Studies, Mapua University.
- Dandal, J. N. (2006). *Development of a material selection scheme for dejunk application in the semiconductor industry* [Master's Thesis, MSMS]. School of Graduate Studies, Mapua Institute of Technology.
- De Guzman, J. G. (2020). *Synthesis and Characterization of Copper Treated Zeolite and Thin Film Composite Membrane via Interfacial Polymerization* [Master's Thesis, MSMS]. School of Graduate Studies, Mapua University.
- De Vera, J. S. (2018). *Molecular design and fabrication of a universal coating of materials with antibacterial and self-cleaning properties* [Master's Thesis, MSMS]. School of Graduate Studies, Mapua University.



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- Elkoubaa, F. (2014). *The Fabrication and The Characterization of Cadmium Sulfide Quantum Dots Chitosan Biocomposites* [Master's Thesis, MSMS]. School of Graduate Studies, Mapua Institute of Technology.
- Jacobe, M. A. B. (2016). *Board Level Reliability Development of Low Temperature Cure Polybenzoxazole (PBO) As Repassivation Layer for Water Level Chip Scale Packages (WLCSP)* [Master's Thesis, MSMS]. School of Graduate Studies, Mapua Institute of Technology.
- Junio, J. B. (2017). *Influence of Nano-Titanium Dioxide (TiO<sub>2</sub>) Layer Thickness and Particle Size on the Efficiency of Quantum Dot Sensitized Solar Cells (QDSSC)* [Master's Thesis, MSMS]. School of Graduate Studies, Mapua University.
- Millare, J. C. (2010). *Chitosan reinforced polycaprolactone nanostructured membrane: fabrication and adsorption kinetics for Cu (II) removal from wastewater* [Master's Thesis, MSMS]. School of Graduate Studies, Mapua Institute of Technology.
- Palaganas, N. B. (2018). *3D printing of photocurable cellulose nanocrystal composite for fabrication of complex architectures via Stereolithography* [Master's Thesis, MSMS]. School of Graduate Studies, Mapua University.
- Pascual, R. P. II M. (2010). *Development of a gyratory needleless electrospinning for producing nanofibers* [Master's Thesis, MSMS]. School of Graduate Studies, Mapua Institute of Technology.
- Pelayo, L. J. (2016). *Influence of Thermal on the Microstructure and Mechanical Strength of the Lead-Free Solder and Under Bump Metallization of a Wafer Level Chip Scale Package* [Master's Thesis, MSMS]. School of Graduate Studies, Mapua Institute of Technology.
- Salle, M. G. S. (2016). *Influence of Thermal Aging on the Solderability of Nickel-Palladium-Gold Preplated Lead frames* [Master's Thesis, MSMS]. School of Graduate Studies, Mapua Institute of Technology.
- Sudario, F. A. (2010). *Silver filled epoxy (SFE)/ Halloysite Nanotube (HNT) nanocomposite as die attach material in semiconductor devices* [Master's Thesis, MSMS]. School of Graduate Studies, Mapua Institute of Technology.
- Sy, J. A. C. (2015). *Synthesis and Characterization of Titanium Dioxide (TiO<sub>2</sub>) Nanoparticles via SOL-GEL Method* [Master's Thesis, MSMS]. School of Graduate Studies, Mapua Institute of Technology.



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- Tan, C. M. E. (2016). *Tunable Thermo responsive Zwitterionic Copolymer Coating grafted onto Polydimethyl siloxane (PDSMS)* [Master's Thesis, MSMS]. School of Graduate Studies, Mapua Institute of Technology.
- Valino, A. D. (2016). *Fabrication and Characterization of Abaca-Glass Fiber-Epoxy Hybrid Composites* [Master's Thesis, MSMS]. School of Graduate Studies, Mapua Institute of Technology.