

# Dr. Elías Heriberto Arias Nava

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- Research Topics
  - Degradation Analysis
  - Reliability Analysis
  - Applied Statistics
- Research Projects
  - A Biopolymer Degradation Analysis: Accelerated Life Testing Study to Characterize Polylactic Acid Durability
  - Diagnosability and reconfigurable manufacturing: from general requirements to enabling technologies
- Publications
- **Arias Nava, Elías**, Delia J. Valles-Rosales, Brendan Sullivan. (2021). “Biopolymer degradation under accelerated destructive degradation tests: A non-parametric analysis.” *Latin American Conference on Statistical Computing* . Accepted
- Brendan P. Sullivan, Paolo Rosa, **Elías Arias Nava**, Francesco Maria Augusto Ghidoni, Sergio Terzi, (2020). “Economic Feasibility Study of Material Recovery from Batteries Utilized in Electric Transportation Systems”, *IET Collaborative Intelligent Manufacturing*. Accepted
- **Arias Nava, Elías**, Delia J. Valles-Rosales. (2018). "Mechanical Properties of Poly Lactic Acid: An Accelerated Destructive Degradation Test". *American Journal of Engineering Research*. Volume-7, Issue-9, pp-167-172. e-ISSN: 2320-0847 p-ISSN: 2320-0936
- **Arias Nava, Elías**, Delia J. Valles-Rosales, Luis A. Rodríguez-Picon, Luis A. Mendez-Gonzalez, and Juan M. Díaz-Mendoza. (2018). "Effect Analysis of Fuse Deposition Modeling Processes on Mechanical Properties of Wood Plastic Composites". *International Journal of Engineering Sciences & Research Technology*. Volume-7, Issue-5, ISSN: 2277-9655.
- **Arias-Nava, E. H.**, Ríos-Lira, A., Vázquez-López, J., & Pérez-González, R. (2015). Estudio comparativo entre los enfoques de diseño robusto Taguchi y tradicional en presencia de interacciones de control por control. *Ingeniería, Investigación y Tecnología*, [Volumen 16, No 1 \(2015\)](#), 131-142. ISSN: 1405-7743. Index: SciELO Citation Index (Thomson Reuters).
- Galindo, J., Ríos, A. J., Simpson, J. R., & **Arias, E. H.** (2016). Foldover Plans for Resolution IV Designs with 11 to 16 Factors. *Quality and Reliability Engineering International*. Volume 32, Issue 3, 1237–1252. Index: ISI Journal Citation Reports.
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