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Últimas Publicaciones

- 1.- Espinosa, E.; Melín, P.; Baier, C. **Espinoza, J.**, Garcés, H. "An Efficiency Analysis of 27 Level Single-Phase Asymmetric Inverter without Regeneration," *Energies*, vol. 14, pp., Mar. 2021, DOI: 10.3390/en14051459.
- 2.- Rohten, J.; Muñoz, J.; Pulido, E.; Silva, J.; Villarroel, F.; **Espinoza, J.** "Very Low Sampling Frequency Model Predictive Control for Power Converters in the Medium and High-Power Range Applications," *Energies*, vol. 14, pp., Jan. 2021, DOI: 10.3390/en14010199.
- 3.- Ramírez, R.; Baier, C.; Villarroel, F.; **Espinoza, J.**; Pou, J.; Rodríguez, J. "A Hybrid FCS-MPC with Low and Fixed Switching Frequency without Steady-State Error Applied to a Grid-Connected CHB Inverter," *IEEE Access*, vol. 8, pp. 223637-223651, DIC. 2020, DOI: 10.1109/ACCESS.2020.3044226.
- 4.- Rohten, J.; Silva, J.; Muñoz, J.; Villarroel, F.; Dewar, D.; Rivera, M.; **Espinoza, J.** "A Simple Self-Tuning Resonant Control Approach for Power Converters Connected to Micro-Grids with Distorted Voltage Conditions," *IEEE Access*, vol. 8, pp. 216018-216028, Dec. 2020, DOI: 10.1109/ACCESS.2020.3041528.
- 5.- Ramírez, R.; Baier, C.; **Espinoza, J.**; Villarroel, F. "Finite Control Set MPC with Fixed Switching Frequency Applied to a Grid Connected Single-Phase Cascade H-Bridge Inverter," *Energies*, vol. 13, pp., Oct. 2020, DOI: 10.3390/en13205475.
- 6.- Ruiz, F.; Pérez, M.; **Espinoza, J.**; Gajowik, T.; Stynski, S.; Malinowski, M. "Surveying Solid-State Transformer: Structures and Controls Providing Highly Efficient and Controllable Power Flow in Distribution Grids," *IEEE Industrial Electronics Magazine*, vol. 1, pp. 56-70, Mar. 2020, DOI: 10.1109/MIE.2019.2950436.
- 7.- Melín, P.; Guzmán, J.; Hernández, F.; **Espinoza, J.**; Espinosa, E. "Analysis and control strategy for a current-source based D-STATCOM towards minimum losses," *International Journal of Electrical Power and Energy Systems*, vol. 166, pp., Mar. 2020, DOI: 10.1016/j.ijepes.2019.105532.
- 8.- Silva, J.; **Espinoza, J.**; Rohten, J.; Torres, M.; Reyes, M. "MPC algorithm with reduced computational burden and fixed switching spectrum for a multilevel inverter in a photovoltaic system," *IEEE Access*, vol. 8, pp. 77405-77414, Abr. 2020, DOI: 10.1109/ACCESS.2020.2988627.
- 9.- Bierhoff, M.; Soliman, R.; **Espinoza, J.** "Analysis and Design of Grid-Tied Inverter with LCL Filter," *IEEE Open Journal of Power Electronics*, vol. 1, pp. 161-169, May. 2020, DOI: 10.1109/OJPEL.2020.2995105.