

- Purification and production of bio-ethanol through the control of a pressure swing adsorption plant. (2023). *ENERGY*. <https://tlapiakali.conahcyt.mx/s/Mr9ezJy6sCBXek7>
- Synthetic biology: on the development of genetic circuits and their potential applications in biosciences and biofuels. (2023). *TIP REVISTA ESPECIALIZADA EN CIENCIAS QUÍMICO-BIOLÓGICAS* DOI: 10.22201/fesz.23958723e.2023.538
- Experimental validation of fractional pid controllers applied to a two-tank system. (2023). *MATHEMATICS*. <https://tlapiakali.conahcyt.mx/s/ewFB8TGCcygmqjH>
- A method for perception and assessment of semantic textual similarities in english. (2023). *MATHEMATICS*. DOI: 10.3390/math11122700
- Fault tolerant control via input-output linearization method for led-driver using a boost converter. (2023). *IEEE ACCESS*. <https://tlapiakali.conahcyt.mx/s/wMERgEqixRr3RkD>
- Active fault-tolerant control applied to a pressure swing adsorption process for the production of bio-hydrogen. (2023). *MATHEMATICS*. <https://tlapiakali.conahcyt.mx/s/2yZFK3amTdtXEeH>
- Actuator and sensor fault detection and isolation system applied to a distillation column. (2023). *IEEE ACCESS*. <https://tlapiakali.conahcyt.mx/s/ew29ydybDSYcQGg>
- Control for bioethanol production in a pressure swing adsorption process using an artificial neural network. (2023). *MATHEMATICS*. <https://tlapiakali.conahcyt.mx/s/tZmetpsx4ytJLTz>
- Pressure swing adsorption plant for the recovery and production of biohydrogen: optimization and control. (2023). *PROCESSES*. <https://tlapiakali.conahcyt.mx/s/m4sEqEp7RAEFYAW>
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- Fault-tolerant control implemented to hammersteinwiener model: application to bio-ethanol dehydration. (2022). *FUEL*. <https://tlapiakali.conahcyt.mx/s/K4oWMkHTq4pNr5g>
- Establishment of the upstream processing for renewable production of hydrogen using vermicomposting-tea and molasses as substrate. (2022). *WASTE MANAGEMENT*. <https://tlapiakali.conahcyt.mx/s/3npHEMdfRf9pxi>
- Optimization and recovery of a pressure swing adsorption process for the purification and production of bioethanol. (2022). *FERMENTATION*. <https://tlapiakali.conahcyt.mx/s/gJ3QGMdyGcNW7w9>
- Simulation and state feedback control of a pressure swing adsorption process to produce hydrogen. (2022). *MATHEMATICS*. <https://tlapiakali.conahcyt.mx/s/yjqSCZ3TdM24sq7>
- Discrete state-feedback control design with d-stability and genetic algorithm for led driver using a buck converter. (2022). *INTERNATIONAL TRANSACTIONS ON ELECTRICAL ENERGY SYSTEMS*. <https://tlapiakali.conahcyt.mx/s/wwwJpsgR7edHAS39>
- Fault diagnosis of induction motor using d-q simplified model and parity equations. (2022). *ENERGIES*. <https://tlapiakali.conahcyt.mx/s/tkdSn6ZQEB6sT7E>
- Design and control applied to an extractive distillation column with salt for the production of bioethanol. (2022). *PROCESSES*. <https://tlapiakali.conahcyt.mx/s/N6dyMndYdSAQqBs>

- Review of the pressure swing adsorption process for the production of biofuels and medical oxygen: separation and purification technology. (2022). *ADSORPTION SCIENCE & TECHNOLOGY*. <https://tlapiakali.conahcyt.mx/s/MtXrxMpwNeBoyBY>
- Concentration estimation and fault tolerant control in a cstr modelled as a quasi linear parameter varying system. (2021). *REVISTA MEXICANA DE INGENIERÍA QUÍMICA* <https://tlapiakali.conahcyt.mx/s/DFxGJ6zNgAqgeHe>
- Soft exoskeletons: development, requirements, and challenges of the last decade. (2021). *ACTUATORS*. <https://tlapiakali.conahcyt.mx/s/jKdK5FWtoJipkn2>
- Fault estimation and fault tolerant control strategies applied to vtol aerial vehicles with soft and aggressive actuator faults. (2020). *IEEE ACCESS*. <https://tlapiakali.conahcyt.mx/s/ZNokTE2ZTrJkJE7>
- Adsorption and separation of the h₂o/h₂so₄ and h₂o/c₂h₅oh mixtures: a simulated and experimental study. (2020). *PROCESSES*. <https://tlapiakali.conahcyt.mx/s/Qgbc4kywsAAce2c>

CAPÍTULOS DE LIBRO

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LIBROS

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- *Seminario de ingenierías entre cuerpos académicos*. (2022). AMAT EDITORIAL. <https://tlapiakali.conahcyt.mx/s/rsxao9KqZSsrLi4>