

LIST OF PUBLICATIONS

- **Munna Kumar**, Durga Prasad, R.S.Singh*, “Performance enhancement of IMC-PID controller design for stable and unstable second order time delay processes”, **J. Cent. South Univ.** (2020) 27: 88–100, doi.org/10.1007/s11771-020-4280-7.
- **M. Kumar**, Durga Prasad, Balendu Shekhar Giri and R.S. Singh, “Temperature control of fermentation bioreactor for ethanol production using IMC-PID controller. *Biotechnology Reports*, 22, e00319 (2019) 1-10.
- M. Kumar, R.S. Singh, "PID Controller Design for SOPDT using Direct Synthesis Method", *International Journal of Intelligent Systems and Applications (IJISA)*, 9, (2019) 56-64.
- M. Kumar, R.S. Singh, “Comparison of non-linear, linearized 2nd order and reduced to FOPDT models of CSTR using different tuning methods”. *Resource-Efficient Technologies 2* (2016) S71–S75.

International and National Conference

- Munna Kumar, Awadhesh K. Tiwari, Koteswara Rao Maradana and R.S. Singh, “Control of pH neutralization process using nonlinear adaptive scheme along with self-tuning PID controller” CHEMCON-2014, Punjab University, Chandigarh.
- Munna Kumar, Awadhesh. K. Tiwari, R.S. Singh, “A comparative Study on Tuning of PID-Controller”, CHEMCON-2015, IIT Guwahati.
- Munna Kumar, R.S. Singh, “Comparison of non-linear, linearized 2nd order and reduced to FOPDT models of CSTR using different tuning methods”, TECHNOSCAPE-2016, VIT, Vellore.
- Munna Kumar, Durga Prasad and R.S. Singh, “Maximum sensitivity-based tuning of PID controller using direct synthesis method for stable system”, CHEMCON-2017, HIT- Haldia.