

**Dr. R C Panda,**  
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**List of Publications(Last Five Years):**

1. T. Senthilvelan, J Kanagaraj, **R C Panda, 2015**, Degradation of Azo Dyes by Laccase: Biological Method to Reduce Pollution Load in Dye Waste Water, Clean Technologies & Environmental Policy;17(6), p1443 , IF=3.18
2. **Rames C. Panda**, C. Sreepradha, T. Narayani, V. Sivakumar and A B Mandal **2015**, Control Techniques for Odor-Reduction in Wastewater in Tannery, I.Manager\_Journal of Future Engg & Tech, 10 (2), 20-29. (IF=3.4)
3. Boopathy R, **Panda, R.C.** and Sekharan, G., **2015**, Studies on reactive precipitation of sodium chloride crystals from evaporative residue, I.Manager\_Journal of Future Engg & Tech, 10(3), Feb-Apr-2015, 18-27. (IF=3.4)
4. Narayani T. and **Rames C. Panda, 2015**, Modelling, identification and control for production of glycerol by hydrolysis of tallow fat –, Chem Eng Reviews, 31(4), 345-60. IF=3.18
5. Kanagaraj J., T. Senthivelan, **R.C. Panda**, S. Kavitha, **2015**, Eco-friendly Waste Management Strategies for Greener Environment towards Sustainable Development in Leather Industry: A Comprehensive Review, J Cleaner Prod., 2, 89-99(IF=3.59)
6. Kanagraj J., **R C Panda** and T. Senthilvelan, **2015**, Green remediation of sulfide in oxidative dehairing: correlation by mathematical model – An eco-friendly approach Process Safety & Env Protection, vol 100, 36-48.(IF=2.551)
7. **Panda R C.**, Siddharthan Selvasakhar, Murugan D., Sivakumar V, T. Narayani and C. Sreepradha, **2015**, Optimized production of basic chromium sulfate – with a review of sustainable cleaner production options –J Clean prod, 112 (5), 4854-4862 (IF=3.84)
8. Kanagaraj J., **R C Panda** and V. Sumathi, **2015**, Synthesis of graft-copolymer adsorbent through green route and studies on its interactions with chromium (III) through active functional groups: kinetics and improved adsorption supported by SEM-EDX and AFM, RSC Adv. **2015**, 5, 45300-45319.(IF=3.5)
9. Sivakumar V. and **Panda R.C.**, Clean bill of health and safety, Leather International, May **2015**, 38-41. (IF=0.2)
10. Kanagaraj J., **R C Panda** and V. Sumathi, **2015**, A Water Soluble Graft Copolymer Synthesized from Collagenous Waste and PEG with Functional Carboxylic Chains: A Highly Efficient Adsorbent for Chromium (III) with Continuous Recycling and Molecular Docking Studies, Ind. Eng Chem Res, 54(30), 7401-14. (IF=2.58)
11. T. Narayani, **R C Panda**, S. Sobana and C Muralidharan, **2015**, Online monitoring of temperature using wireless module in a rotating drum-applicable to leather industries, Sensors and Transducers (IFSA), Vol.190, No.7, July 2015, pp. 47-52. IF=0.13
12. J.Nivetha, V.Vijayan, S.Devakumar, C.Selvakumar, **R.C.Panda, 2015**, Design of tunable method of PID controller for integrating process, IJECS, 4(12), 15148-51, IF=4.09
13. M Arivalagan, **R C Panda**, K Rajkumar, S. Appunraj, Mathematical modeling and simulation analysts of a continuous stirrer tank reactor, IJAER, 10, 33, **2015**

14. C. Sreepradha, Deepa, P., **Rames C. Panda**, Manamalli, D. and R Sivakumar, **2016**, Synthesis of fuzzy sliding mode controller for liquid level control in spherical tank, Cogent Engineering 3 (1), 12220-42, 2016, IF=0.69
15. Senthilvelan T, J Kanagaraj and **R C Panda**, **2016**, Recent trends in fungal laccase for various industrial applications: an eco-friendly approach - a review, Biotechnology and Bioprocess Engineering., 21(1), 19-38 (IF=1.278)
16. J. Kanagaraj, **R C Panda**, M. SenthilVelan, Sanjeev Gupta, **2016**, Cleaner approach in leather dyeing using graft copolymer as high performance auxiliary: related kinetics and mechanism, Journal of Cleaner Production, 112 (5), 4863-4878(IF=3.84)
17. Sobana S., **R C Panda**, Bidisha P, **2016**, Studies on Performances of Membrane, Draw Solute and Modeling of Forward Osmosis Process in Desalination – A Review, Desalin & Water Treatment, 70 (2017) 46-63
18. G. Atchaya, P.Deepa, V.Vijayan, **R.C.Panda**, Design of PID Controller with Compensator using Direct Synthesis Method for Unstable System, IJECS, 5(4), **2016**, 16202-206
19. J. Kanagaraj, T Senthilvelan and **R C Panda**, **2017**, Enhanced biodegradation of lignin by laccase through HOBt mediator: Mechanistic studies supported by FT-IR and GCMS studies, Environmental Process, 4(1), 201-217
20. Senthilvelan T, Kanagaraj J, R C Panda, **2017**, Effective bioremoval of syntan using laccase: An eco-friendly way for reducing pollution in waste water., Int J of Env Sci & Tech, (4), DOI 10.1007/s13762-017-1495-8
21. Sreepradha C., **Rames C Panda**, N S Bhubaneswari, **2017**, Dynamic analysis of boiler drum of a coal fired thermal power plant, Simulation: Transactions of The Society for Modeling and Simulation International, DOI: 10.1177/0037549717703465 (IF=0.94)
22. C. Sreepradha, **Rames C Panda**, N S Bhubaneswari, , **2017**, Predictive modeling of integrated boiler unit for a coal fired thermal power plant, International Journal of Emerging Electric Power Systems, De-Gruyter , 18(3), DOI: <https://doi.org/10.1515/ijeeps-2016-0189>, IF=0.68
23. C. Sreepradha, **R C Panda**, N S Bhubaneswari, C. Poogalenth, **2017**, Statistical modeling of an integrated boiler for coal fired thermal power plant, Heylion, e00322, 3, 1-15 IF=0.62
24. V. Sujatha, **Rames C. Panda**, **2017**, Control Configuration Selection for Non-square Multi Input Multi Output System, Journal of control and Instrumentation Engineering, 3(2), pp.1-6
25. Shegaw Ahmed Mohammed, **Rames C. Panda**, Balaraman Madhan, Berhanu Assefa Demessie, Extraction of bio-active compounds from Ethiopian plant material Rumex abyssinicus (mekmeko) root – A study on kinetics, optimization, antioxidant and antibacterial activity, J Taiwan Instt Chem Engrs, June **2017** 75:228-35. IF=4.217
26. K. Jayakumar, **Rames C. Panda**, Ashutosh Panday, Santosh K. Gupta, **2017**, Simulation and optimization of an LPG absorber in an industrial amine treating unit (ATU), Int J Chem Reacn Engg, 9(1), 69-87 IF=1.29
27. K. Jayakumar, **Rames C. Panda**, Ashutosh Panday, **2017**, A Review: State-of- the-Art LPG Sweetening Process, International Journal of Chemical engineering Research (IJCHER), 9(2), 175-207.

28. S.Inbasekaran, M.Shanmugavel, L.Edwin Paul, **R.C.Panda**, R.Keerthana Priya and J.Gopinath, 2017, Saliva Sensor on Collagen Based Film to Detect Blood Sugar Level, Int J of Sci Eng & Tech, 6(9), 324-26.IF=2.6
29. Atanu Panda, **Rames C Panda**, 2018, Adaptive Non-linear Model Based Control Scheme Implemented on the Non-linear Processes, Nonlinear Dynamics, 91(4), 2735-53.IF=3.46
30. J. Kanagaraj, **Rames C.Panda**, T SenthilVelan,T. Narayani, 2019, Screening and production of a potential extracellular fungal laccase from *Penicillium chrysogenum*: media optimization by response surface methodology (RSM) and central composite rotatable design (CCRD), BioTechnology Reports, 23 (9), e00344.IF=1.588
31. C. Sreepadha, **Rames C Panda**, N S Bhuvaneswari, Atanu P., T. Thyagarajan, 2019, Parametric estimation of integrated model of a coal fired boiler in a thermal power plant, Proc of Instt of Mech Engrs – Part A- J. Power & Energy, 20(8), doi.org/10.1177/0957650919870383(IF = 1.694)
32. T. Narayani, Binay Barnabas, **R C Panda**, 2019, Aqueous-hydrolysis of tallow for the production of glycerine – Model development and study on parametric sensitivity, Chem Eng Communications, vol.206,no.9,pp.1107-1122
33. Shegaw Ahmed Mohammed, **Rames C. Panda**, Balaraman Madhan, Berhanu Assefa Demessie, Rumex abyssinicus (Mekmeko) Extract as Cleaner Approach for Dyeing in Leather Manufacture: Optimization and Modeling studies, Asia-Pacific J Chem Eng, 2018, 13(2), pp. e2165IF=0.836
34. Atanu Panda, Shinjee Goswami, **R C Panda**, 2019, Dual estimation and combination of state and output-feedback based robust adaptive NMBC control scheme on Non-Linear processes, Int J Dynamics & Control, 7(2),725-43, 10.1007/s40435-018-0474-3(IF=1.52)
35. Karthigai Selvan, **R C Panda**, 2018, Natural gas sweetening process – a review and some new results, ChemBioEng Reviews, 5(1), 57-74
36. D. Kishore, Sethi Smruti Rajan, K. Anand Kishore & **Rames C. Panda** (2019) An improved identification and control of  $3 \times 3$  multi-input multi-output system using relay and subspace method, Indian Chemical Engineer, 61:1, 87-101. (IF=0.29)
37. C. Sreepadha, **R C Panda**, N S Bhuvaneswari, 2018, Operational control of an integrated drum boiler of a coal fired thermal power plant, Energy, 159 (9), 977-87 IF=4.962
38. Kilaru Harshvardhan, **Rames C Panda**, A. Saravanan, 2018, Removal of Zn(II) ions from aqueous solution using chemically modified *Annona reticulata* seeds; Kinetics, isotherm and thermodynamics, Desal & Wat treatment, 122, 66-77. IF=0.93
39. D. Kishore, K. Anand Kishore , **R C Panda**, 2018, Identification and control of process using the Modified asymmetrical Relay Feedback method, Procedia Computer Science, 7, pp. 1029-1034
40. Indumathy M, Sobana S and **Rames C Panda**, (2019), Parametric Identification of Process Model of Continuous High Temperature Short Time (HTST) pasteurization process using plate heat exchangers, J. Food Proc Eng, accepted(IF=1.955)
41. D Kishore, KA Kishore, **RC Panda**, 2019, Stability Analysis and Controller Design for Unstable Systems Using Relay Feedback Approach, Soft Computing for Problem Solving, 223-233.
42. Atanu Panda, Sanjay B, Parijat B, Shinjinee P, **R C Panda**, 2019, Design and application of nonlinear model-based tracking control schemes employing DEKF estimation,

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43. Kilaru Harshvardhan, P. SenthilKumar, **Rames C Panda**, 2019 A review on heavy metal pollution, toxicity and remedial measures: current trends and future perspectives, J of Molecular Liquids, 290 (6), pp. 111197 (IF=4.561)
44. J. Kanagaraj, **R. C. Panda**, G. C. Jayakumar, 2020, Interaction of glyoxal with collagenous matrix and its behavioral aspects for non-toxic and sustainable tanning system, International Journal of Environmental Science and Technology, 17, 879-90, <https://doi.org/10.1007/s13762-019-02327-1> (IF=2.037)