## International Journal

1. Bhattacharya, Sagnik, Pradip Kumar Sadhu, and Anik Goswami. "Energy estimation of FSPV-based microgrid for sustainable electricity generation and water conservation in hot semi-arid urban areas." Microsystem Technologies (2024): 1-13. https://doi.org/10.1007/s00542-024-05639-6 (Q3)

2. Dhara, S., Shrivastav, A. K., Bhaumik, K., & Sadhu, P. K. (2024). Analysis and investigation of synchronous machine rotor winding short-circuit fault in a distribution system. Microsystem Technologies, 1-16. https://doi.org/10.1007/s00542-024-05640-z (Q3)

3. Chakrabarti, A., Sadhu, P. K., Pal, P., & Bihari, S. P. (2024). An Intelligent Optimized Control System for Induction Heating Application. Electric Power Components and Systems, 1-17.. https://doi.org/10.1080/15325008.2024.2328798 (Q4)

4. Dhar, S., Sadhu, P. K., Chaudhuri, S. R., & Das, S. (2024). Enhancing energy efficiency and cost redemption through solar-powered electric vehicles with induction cooking system for mobile hospitality in India. Clean Technologies and Environmental Policy, 1-33. https://doi.org/10.1007/s10098-024-02764-8 (Q2)

5. Bhattacharjee, B., Sadhu, P. K., Ganguly, A., & Naskar, A. K. (2024). Photovoltaic energy based fast charging strategy for VRLA batteries in small electric vehicles for sustainable development. Microsystem Technologies, 30(2), 141-153. https://doi.org/10.1007/s00542-023-05551-5 (Q3)

6. Kumar, Kundan, and Pradip Kumar Sadhu. "Performance prediction of a circularly polarized graphene-dielectric resonator-based antenna for THz frequency application using machine learning algorithms." Applied Optics 63, no. 6 (2024): A1-A6. https://doi.org/10.1364/AO.502463 (Q3)

7. Kumar, K., Sadhu, P.K. Efficient modeling of graphene-dielectric resonator based hybrid MIMO antenna for THz application using machine learning algorithms. Optical and Quantum Electronics 56, 172 (2024). https://doi.org/10.1007/s11082-023-05756-y (Q2)

8. Shukla, A., Dutta, S., Sadhu, P.K. et al. An island detection methodology with protection against cyber attack. Microsystem Technologies (2024). https://doi.org/10.1007/s00542-023-05596-6 (Q3)

9. Shukla, A., Dutta, S., Sadhu, P. K., & Dey, B. (2024). An intelligent Island detection scheme to enhance grid resilience. Microsystem Technologies, 1-17. https://doi.org/10.1007/s00542-023-05602-x (Q3)

10. Kurre, M., Roy, P., Banerjee, A. et al. Nine level asymmetrical switched capacitor multilevel inverter fed induction heated autoclave system for medical applications. Microsystem Technologies (2024). https://doi.org/10.1007/s00542-023-05593-9 (Q3)

11. Mishra, S., Roy, S., Routray, A. et al. Enhanced fault classification in underground cable systems: a three-step framework utilizing evolutionary optimization for signal tracking and parameter estimation. Microsystem Technologies (2023). https://doi.org/10.1007/s00542-023-05570-2 (Q3)

12. Dash, D.K., Sadhu, P.K. & Shrivastav, A.k. A robust super twisting sliding mode controller for optimal grid synchronization of photovoltaic system. Microsystem Technologies (2023). https://doi.org/10.1007/s00542-023-05573-z (Q3)

13. Roy, Tapas, and Pradip Kumar Sadhu. "A step-up multilevel inverter with reduced devices and input current ripple." International Journal of Electronics 110, no. 12 (2023): 2244-2264. https://doi.org/10.1080/00207217.2022.2140837 (Q4)

14. Shukla, A., Dutta, S., Sahu, S.K. et al. A narrative perspective of island detection methods under the lens of cyber-attack in data-driven smart grid. Journal of Electrical Systems and Inf Technol 10, 14 (2023). https://doi.org/10.1186/s43067-023-00083-4 (Q3)

15. Singh, N.K., Sadhu, P.K. The investigation of energy and economy for floating solar PV system on saline water. Microsyst Technol (2023). https://doi.org/10.1007/s00542-023-05509-7 (Q3)

Modified on 23rd April 2024

16. Rangarajan, S. S., Raman, R., Singh, A., Shiva, C. K., Kumar, R., Sadhu, P. K., Collins, E. R., et al. (2023). DC Microgrids: A Propitious Smart Grid Paradigm for Smart Cities. Smart Cities, 6(4), 1690–1718. MDPI AG. Retrieved from http://dx.doi.org/10.3390/smartcities6040079

17. Karmakar, A., Sadhu, P.K. & Das, S. A CMPA based cost-effective photovoltaic power generation system and utilization. Microsyst Technol 29, 865–874 (2023). https://doi.org/10.1007/s00542-023-05483-0

18. Dhara, S., Shrivastav, A.K. & Sadhu, P.K. Radial basis function network based PV and wind system using maximum power point tracking. Microsyst Technol (2023). https://doi.org/10.1007/s00542-023-05485-y

19. Dash, D. K., & Sadhu, P. K. (2023). A Review on the Use of Active Power Filter for Grid-Connected Renewable Energy Conversion Systems. Processes, 11(5), 1467. MDPI AG. Retrieved from http://dx.doi.org/10.3390/pr11051467

20. Bhattacharya, S., Goswami, A. & Sadhu, P.K. Design, development and performance analysis of FSPV system for powering sustainable energy based mini micro-grid. Microsyst Technol (2023). https://doi.org/10.1007/s00542-023-05457-2

21. Raman, R., Kumar, A., Mohamed, H. G., Sadhu, P. K., Kumar, R., Rangarajan, S. S., Collins, E. R., et al. (2023). An Experimental Investigation and Feasibility Analysis of a Novel Modified Vienna Rectifier for Harmonic Mitigation in an Induction Heating System. Machines, 11(4), 488. MDPI AG. Retrieved from http://dx.doi.org/10.3390/machines11040488

22. Chakraborty, Moumita, Pradip Kumar Sadhu, and Brajesh Kumar. "Study of a non-contact opto-electronic liquid level transmitter for a conducting liquid using MZI technique." Microsystem Technologies (2023): 1-13. https://doi.org/10.1007/s00542-023-05431-y (Q3)

23. Kumaraswamy A, Ananyo Bhattacharya & Pradip Kumar Sadhu (2023) Dual Output and Dual-Frequency Resonant Inverter-based Induction Heating Using ADC Control, IETE Journal of Research, DOI: 10.1080/03772063.2023.2175047

24. Kumaraswamy, A., Ananyo Bhattacharya, and Pradip Kumar Sadhu. "Dual output direct AC–AC series resonant converter for all metal induction heating system with a hybrid control technique." Electrical Engineering (2023): 1-13. https://doi.org/10.1007/s00202-023-01743-4 (Q3)

25. Singh, Nimesh Kumar, Anik Goswami, and **Pradip Kumar Sadhu**. "Energy economics and environmental assessment of hybrid hydel-floating solar photovoltaic systems for cost-effective low-carbon clean energy generation." Clean Technologies and Environmental Policy (2022): 1-22. https://doi.org/10.1007/s10098-022-02448-1 (Q2)

26. Dash, Dipak Kumar, **Pradip Kumar Sadhu**, and Bidyadhar Subudhi. "Photovoltaic grid management systems with sliding mode control." Microsystem Technologies 28, no. 12 (2022): 2775-2783. https://doi.org/10.1007/s00542-022-05349-x (Q3)

27. Bhaumik, Kallol, and **Pradip Kumar Sadhu**. "Effect of leakage inductance on solar panel based multiple output inverter for induction heating system." Microsystem Technologies 28, no. 12 (2022): 2723-2729. https://doi.org/10.1007/s00542-022-05320-w (Q3)

28. Roy, Tapas, and **Pradip Kumar Sadhu**. "A step-up multilevel inverter with reduced devices and input current ripple." International Journal of Electronics (2022): 1-21. https://doi.org/10.1080/00207217.2022.2140837 (Q4)

29. Raman, Rahul, **Pradip Kumar Sadhu**, Ritesh Kumar, Shriram Srinivasarangan Rangarajan, Umashankar Subramaniam, Edward Randolph Collins, and Tomonobu Senjyu. "Feasible Evaluation and Implementation of Shunt Active Filter for Harmonic Mitigation in Induction Heating System." Electronics 11, no. 21 (2022): 3464. https://doi.org/10.3390/electronics11213464 (Q3)

30. Sarkar, Debayan, and **Pradip Kumar Sadhu**. "Critical Comprehensive Performance Analysis of Static BIPV Array Configurations to Reduce Mismatch Loss and Enhance Maximum Power Under Partial Shading." IETE Technical Review (2022): 1-33. https://doi.org/10.1080/02564602.2022.2127944 (Q3)

Modified on 23rd April 2024

31. Dhara, S., **P. K. Sadhu**, and A. K. Shrivastav. "Controlling of transient and harmonics using UPFC in an interconnected power grid." Microsystem Technologies (2022): 1-11. https://doi.org/10.1007/s00542-022-05374-w (Q3)

32. Bihari, Shiv Prakash, and **Pradip Kumar Sadhu**. "A novel function roach and intelligence control technique for power quality improvement in grid incorporated solar photovoltaic system." International Journal of Green Energy 19, no. 11 (2022): 1170-1190. https://doi.org/10.1080/15435075.2021.1986403 (Q3)

33. Dash, D.K., **Sadhu, P.K.** & Subudhi, B. Photovoltaic grid management systems with sliding mode control. Microsystem Technologies (2022). https://doi.org/10.1007/s00542-022-05349-x (Q3)

34. Sarkar, Debayan,, **Pradip Kumar Sadhu**. "Estimation of Maximum Power from roof-integrated BIPV modules using Lambert W function aided three-diode model." Journal of Electrical Systems & Automation 1 (2022). https://revues.imist.ma/index.php/JESA/article/download/33862/17475.

35. Dhara, Saumen, Alok Kumar Shrivastav, and **Pradip Kumar Sadhu**. "Smart Grid Modernization: Opportunities and Challenges." Electric Grid Modernization (2022): 5. DOI: 10.5772/intechopen.97892

36. Chakrabarti, Arijit, **Pradip Kumar Sadhu**, and Palash Pal. "A novel dead-time elimination strategy for voltage source inverters in induction heating systems through fractional order controllers." revue roumaine des sciences techniques—série électrotechnique et énergétique 67, no. 2 (2022): 181-185. https://journal.iem.pub.ro/rrst-ee/article/view/83/175 (Q4)

37. Sarkar, Debayan, and **Pradip Kumar Sadhu**. "A new hybrid BIPV array for enhancing maximum power with reduced mismatch losses under extreme partial shading scenarios." Energy Sources, Part A: Recovery, Utilization, and Environmental Effects 44, no. 2 (2022): 5172-5198. https://doi.org/10.1080/15567036.2022.2083271 (Q3)

38. Chakrabarti, A., Sadhu, P.K. & Pal, P. AWS IoT Core and Amazon DeepAR based predictive real-time monitoring framework for industrial induction heating systems. Microsyst Technol (2022). https://doi.org/10.1007/s00542-022-05311-x (Q3)

39. Ghosh, P.K., **Sadhu, P.K.**, Basak, R. et al. Optimization of Performance Variables and Cost of Single-Phase Squirrel-Cage Type Induction Motors. J. Inst. Eng. India Ser. B 103, 567–576 (2022). https://doi.org/10.1007/s40031-021-00648-9

40. Debayan Sarkar & **Pradip Kumar Sadhu** (2022) A Novel Fixed BIPV Array for Improving Maximum Power with Low Mismatch Losses Under Partial Shading, IETE Journal of Research, DOI: 10.1080/03772063.2022.2060871. (Q3)

41. Riyaz Ahmed, **Sadhu Pradip Kumar**, Iqbal Atif, Tariq Mohd, "Power quality enhancement of a hybrid energy source powered packed e-cell inverter using an intelligent optimization technique" in Journal of Intelligent & Fuzzy Systems, vol. 42, no. 2, pp. 817-825, 25 January 2022, DOI: 10.3233/JIFS-189751 (Q4)

42. Tabrez Mda, **Sadhu Pradip Kumar**, Iqbal Atif, Husain Mohammed Aslam, Bakhsh Farhad Ilahid, Singh, S. P., "Equivalent circuit modelling of a three-phase to seven-phase transformer using PSO and GA" in Journal of Intelligent & Fuzzy Systems, vol. 42, no. 2, pp. 689-698, 25 January 2022, DOI: 10.3233/JIFS-189741 (Q4)

43. Shiv Prakash Bihari, **Pradip Kumar Sadhu**, " Techno-economic analysis for fertilizer house using hybrid power stations" in Soft Computing, Springer Nature, 07 February 2022, https://doi.org/10.1007/s00500-022-06731-7 (Q2)

44. Saumen Dhara, **Pradip Kumar Sadhu**, Alok Kumar Shrivastav, "Analysis of over current relay and hybrid filter including the utilization of SFCL in a distribution network with DG" in AIMS Electronics and Electrical Engineering, Volume 6, Issue 1: Pages 81-107, 2022, doi: 10.3934/electreng.2022006

45. Anik Goswami, **Pradip Kumar Sadhu**, "Nature inspired evolutionary algorithm integrated performance assessment of floating solar photovoltaic module for low-carbon clean energy generation" in Sustainable Operations and Computers, Elsevier, Volume 3, Pages 67-82, 2022, https://doi.org/10.1016/j.susoc.2021.10.002

Modified on 23rd April 2024

46. Suman Kumar Laha, **Pradip Kumar Sadhu**, Ankur Ganguly, Ashok Kumar Naskar, "A comparative study on thermal performance of a 3-D model based solar photovoltaic panel through finite element analysis" in Ain Shams Engineering, Elsevier, Volume 13, Issue 2, March 2022, https://doi.org/10.1016/j.asej.2021.06.019 (Q1)

47. Bihari, Shiv Prakash, **Pradip Kumar Sadhu**, Kumari Sarita, Baseem Khan, L. D. Arya, R. K. Saket, and D. P. Kothari. , "A Comprehensive Review of Microgrid Control Mechanism and Impact Assessment for Hybrid Renewable Energy Integration," in IEEE Access, vol. 9, pp. 88942-88958, 17 June 2021, doi: 10.1109/ACCESS.2021.3090266 (Q2)

48. Anik Goswami, **Pradip Kumar Sadhu**, "Degradation analysis and the impacts on feasibility study of floating solar photovoltaic systems", Sustainable Energy Grids & Networks, Science Direct (Thomson Reuters - Science Citation Index Expanded SCIE), Volume 26, June 2021, 100425, https://doi.org/10.1016/j.segan.2020.100425 (Q1)

49. A Goswami, **PK Sadhu**. 2021. Adoption of floating solar photovoltaics on waste water management system: a unique nexus of water-energy utilization, low-cost clean energy generation and water conservation. Clean Technologies and Environmental Policy. pp. 1-26. DOI: 10.1007/s10098-021-02077-0. (SCIE- Q2, I.F- 2.429) (Q2)

50. Anik Goswami, **Pradip Kumar Sadhu**, "Stochastic firefly algorithm enabled fast charging of solar hybrid electric vehicles", Ain Shams Engineerin**g** Journal, Science Direct (Thomson Reuters - Science Citation Index Expanded SCIE), Volume 12, Issue 1, March 2021, Pages 529-539, https://doi.org/10.1016/j.asej.2020.08.016 (Q1)

51. Apoorva Shukla, Soham Dutta, **Pradip Kumar Sadhu**,. "An island detection approach by μ-PMU with reduced chances of cyber attack", International Journal of Electrical Power & Energy Systems, Volume 126, Part A, March 2021, 106599, https://doi.org/10.1016/j.ijepes.2020.106599 (Q1)

52. Bidrohi Bhattacharjee, **Pradip Kumar Sadhu**, Ankur Ganguly, Ashok Kumar Naskar, "INTEGRATED GREEN SUBMERSIBLE PUMPING SYSTEM FOR FUTURE GENERATION", FACTA UNIVERSITATIS Series: Electronics and Energetics Vol. 34, No 1, March 2021, pp. 37-51. https://doi.org/10.2298/FUEE2101037B (Q4)

53. Soham Dutta, Sachin Ola, **Pradip Kumar Sadhu**,. "A secured, reliable and accurate unplanned island detection methodin a renewable energy based microgrid", Engineering Science and Technology, an International Journal, https://doi.org/10.1016/j.jestch.2021.01.015 (Q1)

54. Sarkar, D, Kumar, A, **Sadhu, PK**. "Different diode models comparison using Lambert W function for extracting maximum power from BIPV modules." International Journal of Energy Research. 2021; 45: 691– 702. https://doi.org/10.1002/er.5801 (Q1)

55. Laha, S.K., **Sadhu, P.K.**, Dhar, R.S. et al. "Analysis of mechanical stress and structural deformation on a solar photovoltaic panel through various wind loads." Microsystem Technologies, 27, 3465–3474 (2021). https://doi.org/10.1007/s00542-020-05142-8 (Q3)

56. Anand Kumar, Debayan Sarkar & **Pradip Kumar Sadhu** (2020) "Power Quality Improvement in Induction Heating System Using Vienna Rectifier Based on Hysteresis Controller", Electric Power Components and Systems, 48, P.P. – 9-10, 892-905, DOI: 10.1080/15325008.2020.1821840 (Q4)

57. Saikat Kumar Bera, **Pradip Kumar Sadhu**, "Investigation on a flow transducer using modified force sensing technique" IET Science Measurement & Technology, (Thomson Reuters – Science Citation Index SCI & Science Citation Index Expanded SCIE), 2020, Volume 14, Issue 10, 20 December 2020, pp. 1019 – 1028, DOI: 10.1049/iet-smt.2020.0134 (Q2)

58. Ahmed, Riyaz; **Sadhu, Pradip Kumar**; Iqbal, Atif; Md. Abdullah Ansari, "Performance analysis of packed U-cell based inverter-fed five-phase induction motor drive using SINPWM technique", International Journal of Power Electronics and Drive Systems; Yogyakarta Vol. 11, Iss. 4, (Dec 2020): 1899-1907. DOI:10.11591/ijpeds.v11.i4.pp1899-1907

59. Sujit Dhar, **Pradip Kumar Sadhu**, Debabrata Roy, Soumya Das, Dwaipayan Das, "Stability analysis of solar based induction heater" Microsystem Technologies (Issue 9 / 2020) 26, ISSN: 0946-7076, https://doi.org/10.1007/s00542-020-04924-4, 16 June 2020. (Q3)

Modified on 23rd April 2024

60. Roy, T., **Sadhu, P.K.** A novel symmetric switched capacitor multilevel inverter using non-isolated power supplies with reduced number of components. Sādhanā 45, 111 (2020). https://doi.org/10.1007/s12046-020-01357-7 (Q4)

61. Soham Dutta, Maddikara Jaya Bharata Reddy, Dusmanta Kumar Mohanta, Makrand Sing Kushwah, **Pradip Kumar Sadhu**,. "μPMU-based intelligent island detection–the first crucial step toward enhancing grid resilience with MG", IET Smart Grid, 3(2), pp.162-173, April 2020, DOI: 10.1049/iet-stg.2019.0161 (ESCI) (Q2)

62. Pritish Kumar Ghosh, **Pradip Kumar Sadhu**, Raju Basak, Amarnath Sanyal, "Energy efficient design of three phase induction motor by water cycle algorithm", Ain Shams Engineering, Elsevier, ISSN: 2090-4479, Volume 11, Issue 4, December 2020, Pages 1139-1147 https://doi.org/10.1016/j.asej.2020.01.017, 13 March 2020. (Q2)

63. Md Tabrez, **Pradip Kumar Sadhu**, Atif Iqbal, Farhad I. Bakhsh, "Analysis of a three-phase to seven-phase transformer under unbalanced input" Microsystem Technologies (2020) 26, ISSN: 0946-7076, https://doi.org/10.1007/s00542-020-04791-z, P.P. – 2507–2516, 9 March 2020. (Q3)

64. Tapas Roy, **Pradip Kumar Sadhu**, "A Step-up Multilevel Inverter Topology using Novel Switched Capacitor Converters with Reduced Components" IEEE Transactions on Industrial Electronics, vol. 68, no. 1, pp. 236-247, Jan. 2021, doi: 10.1109/TIE.2020.2965458, 15 January 2020. (Q1)

65. Anik Goswami, Paromita Sadhu, **Pradip Kumar Sadhu**, "Development of a Grid Connected Solar-Wind Hybrid System With Reduction in Levelized Tariff for a Remote Island in India", JOURNAL OF SOLAR ENERGY ENGINEERING-TRANSACTIONS OF THE ASME, VOL. 142, NO. 4, PP. 044501-1, 08 January 2020. (Q2)

66. Shiv Prakash Bihari, **Pradip Kumar Sadhu**, "Design analysis of high level inverter with EANFIS controller for grid connected PV system" Analog Integrated Circuits and Signal Processing, Volume 103, Issue 3, Jun 2020 pp 411–424, https://doi.org/10.1007/s10470-019-01578-9, 07 January 2020. (Q3)

67. Saumen Dhara, **Pradip Kumar Sadhu**, Alok Kumar Shrivastav, "Modelling And Analysis of an Efficient Dc Reactor Type Superconducting Fault Current Limiter Circuit", REVUE ROUMAINE DES SCIENCES TECHNIQUES-SERIE ELECTROTECHNIQUE ET ENERGETIQUE (Thomson Reuters – Science Citation Index Expanded SCIE),ISSN: 0035-4066, Vol. 64, no. 3, P.P. – 205-210, 2019. (Q4)

68. Avijit Chakraborty, Arijit Chakrabarti, **Pradip Kumar Sadhu**, "Analysis Of A Full-Bridge Direct Ac-Ac Boost Converter Based Domestic Induction Heater", REVUE ROUMAINE DES SCIENCES TECHNIQUES-SERIE ELECTROTECHNIQUE ET ENERGETIQUE (Thomson Reuters – Science Citation Index Expanded SCIE), ISSN: 0035-4066, Vol. 64, no. 3, P.P. – 223-228, 2019. (Q4)

69. Shiv Prakash Bihari, **Pradip Kumar Sadhu**, Soumya Das, P. Arvind, Anagh Gupta, "Design And Implementation Of A Photovoltaic Wind Hybrid System With The Assessment Of Fuzzy Logic Maximum Power Point Technique", REVUE ROUMAINE DES SCIENCES TECHNIQUES-SERIE ELECTROTECHNIQUE ET ENERGETIQUE (Thomson Reuters – Science Citation Index Expanded SCIE),ISSN: 0035-4066, Vol. 64, no. 3, P.P. – 235-240, 2019. (Q4)

70. Avijit Chakraborty, Arijit Chakrabarti, **Pradip Kumar Sadhu**, "Source Current Harmonics Suppression in Domestic Induction Heater", REVUE ROUMAINE DES SCIENCES TECHNIQUES-SERIE ELECTROTECHNIQUE ET ENERGETIQUE (Thomson Reuters – Science Citation Index Expanded SCIE), ISSN: 0035-4066, Vol. 64, no. 1, P.P. – 45–50, 2019. (Q4)

71. Nirmal Kumar Agarwal, **Pradip Kumar Sadhu**, Suprava Chakraborty, "MPPT Based PMSG Wind Turbine System Using Sliding Model Control (SMC) and Artificial Neural Network (ANN) Based Regression Analysis", IETE Journal of Research, (Thomson Reuters - Science Citation Index Expanded SCIE), DOI: 10.1080/03772063.2019.1662336, 2 October, 2019, P.P. – 1-9. (Q4)

72. Murari Lal Azad, **Pradip Kumar Sadhu**, P. Arvind, Anagh Gupta, Tuhin Bandyopadhyay, Soumya Das, Sabyasachi Samanta, "An efficient Mppt approach of PV systems: incremental conduction pathway" – Indonesian Journal of Electrical Engineering and Computer Science (SCOPUS), ISSN: 2502-4752, http://doi.org/10.11591/ijeecs.v15.i3.pp1189-1196, Vol. 15, No. 3, September 2019, pp. 1189-1196.

Modified on 23rd April 2024

73. Anik Goswami, Paromita Sadhu, **Pradip Kumar Sadhu**, "Hybrid K Based Influential Parameter Determination and Design Optimization of 220 kV High Voltage Insulator", ELEKTRONIKA IR ELEKTROTECHNIKA, (Thomson Reuters - Science Citation Index Expanded SCIE), VOL. 25, NO. 14, 12 August, 2019, P.P. – 23-28, https://doi.org/10.5755/j01.eie.25.4.23966. (Q4)

74. Anik Goswami, Subhajit Basu, **Pradip Kumar Sadhu**, "Improvement of Energy Efficiency and Effectiveness of Cooking for Parabolic-Type Solar Cooker Used with Activated-Carbon-Coated Aluminium Cooking Pot"- Global Challenges. (Thomson Reuters – Science Citation Index Expanded SCIE), DOI: **10**.1002/gch2.201900047, ISSN: 2056-6646, 7 August 2019 (Q1)

75. S. Saha, S. K. Bera, H. Mandal, **P. K. Sadhu** and S. C. Bera, "A Temperature Compensated Non-Contact Pressure Transducer Using Hall Sensor and Bourdon Tube," in IEEE Sensors Journal, vol. 19, no. 14, pp. 5429-5438, 15 July15, 2019, doi: 10.1109/JSEN.2019.2904767. (Q1)

76. Anik Goswami, Paromita Sadhu, Utpal Goswami and **Pradip Kumar Sadhu**, "Floating solar power plant for sustainable development: A techno-economic analysis" Environmental Progress & Sustainable Energy, (Thomson Reuters – Science Citation Index SCI, Science Citation Index Expanded SCIE), DOI: 10.1002/ep.13268, ISSN: 1944-7442, 22 May 2019 (Q1)

77. H. Mandal, S. K. Bera, **P. K. Sadhu** and S. C. Bera, "Further Study of the Sensing Ring Position on the Orifice-Type Capacitive Flow Sensor," in IEEE Transactions on Instrumentation and Measurement, vol. 69, no. 4, pp. 1812-1820, April 2020, doi: 10.1109/TIM.2019.2913060. (Q1)

78. Debayan Sarkar, Anand Kumar & **Pradip Kumar Sadhu**, "A Survey on Development and Recent Trends of Renewable Energy Generation from BIPV Systems" in IETE Technical Review, (Thomson Reuters – Science Citation Index Expanded SCIE), https://doi.org/10.1080/02564602.2019.1598294, ISSN: 0256-4602, 04 Apr 2019. (Q3)

79. Anand Kumar, Rahul Raman, **Pradip Kumar Sadhu**, "Dynamic Behavior Improvement of Induction Heating Converters using Fuzzy Logic Controller", ROUMAINE DES SCIENCES TECHNIQUES-SERIE ELECTROTECHNIQUE ET ENERGETIQUE REVUE (Thomson Reuters – Science Citation Index Expanded SCIE),ISSN: 0035-4066, Vol. 64, no. 2, P.P. – 163-168, April 2019. (Q4)

80. Sirshendu Saha, Saikat Kumar Bera, Hiranmoy Mandal, **Pradip Kumar Sadhu**, Satish Chandra Bera," Study of an accurate electronic power measurement technique using modified current transformer and potential transformer", Transactions of the Institute of Measurement and Control (Thomson Reuters – Science Citation Index Expanded SCIE),ISSN: 0142-3312, , https://doi.org/10.1177/0142331219835010, Volume: 41 issue: 13, page(s): 3666-3678, 24th March 2019. (Q3)

81. Prabhat Chandra Ghosh, **Pradip Sadhu** and Ankita Ghosh, "Analysis of a three-coil contactless power transfer system for high-power applications" Journal of the Chinese Institute of Engineers, (Thomson Reuters – Science Citation Index Expanded SCIE), DOI: https://doi.org/10.1080/02533839.2018.1559767, ISSN: 0253-3839, 30 January 2019 (Q4)

82. Kaushik Neogi, Moumita Sadhu, Niladri Das, **Pradip Kumar Sadhu**, Agamani Chakraborty, Ankur Ganguly, Atanu Banerjee, "A new approach for the stability analysis of high-frequency series resonant inverter-fitted induction heater", Ain Shams Engineering Journal (Thomson Reuters – Science Citation Index Expanded SCIE), ISSN: 2090-4479, Vol. 10, no. 1, P.P. – 185-194, 1st March 2019. (Q2)

83. T. Roy, **P. K. Sadhu** and A. Dasgupta, "Cross-Switched Multilevel Inverter Using Novel Switched Capacitor Converters," in IEEE Transactions on Industrial Electronics, vol. 66, no. 11, pp. 8521-8532, Nov. 2019, doi: 10.1109/TIE.2018.2889632, 1st March 2019. (Q1)

84. Pankaj Kumar, Himanshu Sharma, Nitai Pal, **Pradip Kumar Sadhu**, "Comparative Assessment and Obstacles in the Advancement of Renewable Energy in India and China" PROBLEMY EKOROZWOJU, (Thomson Reuters – Social Science Citation Index SSCI), ISSN: 1895-6912, Vol. 14, no. 2, P.P. – 191-200, 2019. (Q4)

85. Tapas Roy, Neha Aarzoo, **Pradip Kumar Sadhu**, Abhijit Dasgupta, "A novel three-phase multilevel inverter structure using switched capacitor basic unit for renewable energy conversion systems" International Journal of Power

Electronics, (SCOPUS) DOI:, doi.org/10.1504/IJPELEC.2019.096818, ISSN: 1756-638X, Vol. 10, No. 1-2, pp. 133-154 , January 2019.

86. Bhattacharya Saunak, Chakraborty Moumita, **Sadhu Pradip Kumar** and Bhadra Bias, "Study of A PID Control System for Liquid Level Measurement Using Non Contact Type Sensor" (March 22, 2019). International Journal of Computational Intelligence & IoT, Vol. 2, No. 3, 2019, https://ssrn.com/abstract=3358271

87. Moumita Sadhu, Utpal Goswami, Niladri Das, **Pradip Kumar Sadhu** and Anik Goswami, "Improvement of energy forecasting model to safeguard energy security in India", Journal of Renewable and Sustainable Energy **10**, 065907 (2018); (Thomson Reuters – Science Citation Index SCI & Science Citation Index Expanded SCIE), ISSN: 1941-7012, doi: 10.1063/1.5053109, 2018 (Q3)

88. H. Mandal, S. K. Bera, S. Saha, **P. K. Sadhu** and S. C. Bera, "Study of a Modified LVDT Type Displacement Transducer With Unlimited Range," in IEEE Sensors Journal, vol. 18, no. 23, pp. 9501-9514, 1 Dec.1, 2018, doi: 10.1109/JSEN.2018.2872510. (Q1)

89. Soham Dutta, **P.K. Sadhu**, M.Jaya Bharata Reddy and D.K. Mohanta, "Shifting of Research Trends in Islanding Detection Method - A Comprehensive Survey", Protection and Control of Modern Power Systems (Springer publication), Vol.3, no.1, pp. 1-20, Dec 2018. https://doi.org/10.1186/s41601-017-0075-8 (Q2)

90. Soham Dutta, **P.K. Sadhu**, M.Jaya Bharata Reddy and D.K. Mohanta, "Smart Inadvertent Islanding Detection employing p-type μPMU for an Active Distribution Network", IET Generation Transmission & Distribution, (Thomson Reuters – Science Citation Index SCI & Science Citation Index Expanded SCIE) ISSN: 1751-8687, Vol. 12, no. 20, pp 4615 – 4625, Nov. 2018. (Q2)

91. Anand Kumar**, P.K. Sadhu**, D.K. Mohanta and M. Jaya Bharata Reddy,"An effective switching algorithm for single phase matrix converter in induction heating applications", Electronics (Switzerland) (Thomson Reuters – Science Citation Index Expanded SCIE), ISSN: 2079-9292 Vol. 7, no. 8, Article number 149, August 2018. (Q3)

92. Pritish Kumar Ghosh, **Pradip Kumar Sadhu**, Amarnath Sanyal, DebabrataRoy, Biswajit Dutta, "Design approach to a wound rotor induction motor towards optimization", Journal of Applied Mathematics and Mechanics (Thomson Reuters – Emerging Science Citation Index E-SCI), ISSN: 0973-8975, Vol.-13, No.-3, pp. 159-172 July-August (2018)

93. Tapas Roy, Bidrohi Bhattacharjee, **Pradip Kumar Sadhu**, Abhijit Dasgupta and Srikanta Mohapatra, "Step-up Switched Capacitor Multilevel Inverter with a Cascaded Structure in Asymmetric DC Source Configuration" Journal of Power Electronics (Thomson Reuters – Science Citation Index Expanded SCIE), ISSN: 1598-2092, Vol. 18, No. 4, pp. 1051-1066, July 2018. (Q3)

94. Utpal Goswami, **Pradip Kumar Sadhu**, Suprava Chakraborty, "Enhancement of Reliability of Process Power Plant by Connecting SVC in Generator Bus during Grid Fault", Journal of Power Technologies (Thomson Reuters – ESCI), ISSN: 2083-4187, Vol.-98, No.-3, pp. 239–244, 2nd November, 2018 (Q4)

95. Prabhat Chandra Ghosh, **Pradip Kumar Sadhu**, Ankita Ghosh, Nitai Pal, "Nanocrystallines as core materials for contactless power transfer (CPT)", Journal of Power Technologies (Thomson Reuters - ESCI), ISSN: 2083-4187, 98 (1), pp. 20–29, 2018 (Q4)

96. Alok Kumar Shrivastav, **Pradip Kumar Sadhu** , Ankur Ganguly,(2018) "Stability and Harmonic Analysis of A Transient Current Limiter in Distribution System", Microsystem Technologies, Volume 25Issue 5May 2019 pp 1833–1839https://doi.org/10.1007/s00542-018-3833-2, 16th March, 2018 (Q3)

97. Arijit Chakrabarti, **Pradip Kumar Sadhu**, Avijit Chakraborty, Amrik Basak and Nitai Pal, "Asymmetrical Duty Cycle Phase-Shifted Dual Output Induction Cooker" Rev. Roum. Sci. Techn. – Électrotechn. Et Énerg. (Thomson Reuters – Science Citation Index Expanded SCIE), 63(1), ISSN: 0035-4066, pp. 65-70, Bucarest, 2018. (Q4)

98. Arijit Chakrabarti, **Pradip Kumar Sadhu**, Avijit Chakraborty and Palash Pal, "Brain Emotional Learning based Intelligent Controller for Induction Heating Systems" Rev. Roum. Sci. Techn. – Électrotechn. Et Énerg. (Thomson Reuters – Science Citation Index Expanded SCIE), 63(1), ISSN: 0035-4066, pp. 58-64, Bucarest, 2018. (Q4)

Modified on 23rd April 2024

99. Himanshu Sharma, Pankaj Kumar, Nitai Pal, **Pradip Kumar Sadhu** "Problems in the Accomplishment of Solar and Wind Energy in India" Problemy Ekorozwoju/Problems of Sustainable Development (Social Science Citation Indexed Journal), ISSN: 1895-6912 vol. 13, no 1, 41-48, 2018. (Q4)

100. Soumya Das, **Pradip Kumar Sadhu**, Anup Majhi, Udayan Ghatak, Tuhin Bandyopadhya, "Parameters estimation and life cycle economic analysis of a PV powered tri-cycle in India" Archives of Electrical Engineering, (Thomson Reuters – Emerging Sources Citation Index ESCI) ISSN: 1427-4221, Vol. 67, no. 3, P.P. – 655-665, 2018. (Q4)

101. Prabhat Chandra Ghosh, **Pradip Kumar Sadhu**, Ankita Ghosh, Nitai Pal, "A new circuit topology using Z-source resonant inverter for high power contactless power transfer applications" Archives of Electrical Engineering, (Thomson Reuters – Emerging Sources Citation Index ESCI) ISSN: 1427-4221, Vol. 66, no. 4, P.P. – 843-854, 20th December, 2017. (Q4)

102. A. Chakrabarti, A. Chakraborty, and **P. K. Sadhu**, "A Fuzzy Self-Tuning PID Controller with a Derivative Filter for Power Control in Induction Heating Systems," Journal of Power Electronics, vol. 17, no. 6, pp. 1577–1586, Nov. 2017. (Q3)

103. M. Tabrez, **P. K. Sadhu** and A. Iqbal, "A Novel Three Phase to Seven Phase Conversion Technique Using Transformer Winding Connections" Engineering, Technology & Applied Science Research (ESCI Indexed Journal), ISSN: 2241-4487, Vol. 7, No. 5, pp. 1953-1961, October 2017 (Q3)

104. Dhar Sujit, Dutta Biswajit, Ghoshroy Debasmita, **Sadhu Pradip Kumar**, Ganguly Ankur, Das Soumya, "A new approach to working coil design for a high frequency full bridge series resonant inverter fitted contactless induction heater," Advances in Computational Design, vol. 2, no. 4, pp. 283–291, Oct. 2017. https://doi.org/10.12989/acd.2017.2.4.283 (Q2/ Q3)

105. Tapas Roy, **Pradip Kumar Sadhu** and Abhijit Dasgupta, "A New Single Phase Multilevel Inverter Topology with Two-step Voltage Boosting Capability" Journal of Power Electronics (SCIE Indexed Journal), ISSN: 1598-2092, Vol. 17, No. 5, pp. 1173-1185, September 2017. (Q3)

106. Kallol Bhaumik, Avik Datta, **Pradip Kumar Sadhu**, "Analysis of Leakage Inductance for Multi-Zone Induction Heater", Rev. Roum. Sci. Techn. – Électrotechn. Et Énerg. (Thomson Reuters – Science Citation Index Expanded SCIE), 62(4), ISSN: 0035-4066, pp. 388-393, Bucarest, 2017. (Q3)

107. Prabhat Chandra Ghosh, **Pradip Kumar Sadhu**, Soumya Das, "A High-Performance Z-Source Resonant Inverter for Contactless Power Transfer", Rev. Roum. Sci. Techn. – Électrotechn. Et Énerg. (Thomson Reuters – Science Citation Index Expanded SCIE), 62(3), ISSN: 0035-4066, pp. 282-287, Bucarest, 2017. (Q3)

108. MeetaraniTripathy, Manish Kumar, **Pradip Kumar Sadhu**, "Photovoltaic system using Lambert W function-based technique"- Solar Energy, (Thomson Reuters – Science Citation Index SCI & Science Citation Index Expanded SCIE) ISSN: 0038-092X, Vol. 158, pp.432-439, 2017. (Q1)

109. MeetaraniTripathy, SomilYadav, **Pradip Kumar Sadhu**, Sarat Kumar Panda,"Determination of optimum tilt angle and accurate insolation of BIPV panel influenced by adverse effect of shadow"- Renewable Energy, (Thomson Reuters - Science Citation Index Expanded SCIE) ISSN: 0960-1481, Vol. 104, pp.211-223, 2017. (Q1)

110. Meetarani Tripathy, Somil Yadav, **Pradip Kumar Sadhu**, Sarat Kumar Panda,"Performance of building integrated photovoltaic thermal systems for the panels installed at optimum tilt angle"- Renewable Energy, (Thomson Reuters - Science Citation Index Expanded SCIE) ISSN: 0960-1481, Vol. 113, pp.1056-1069, 2017. (Q1)

111. Arijit Chakrabarti , **Pradip Kumar Sadhu** , Avijit Chakraborty , Palash Pal, "A Fuzzy PID Controller for Induction Heating Systems with LLC Voltage Source Inverter" International Journal of Power Electronics and Drive System (IJPEDS)(SCIMago, SCOPUS Indexed Journal), ISSN: 2088-8694, Vol. 8, No. 3, September 2017, pp. 1168-1175.

112. Anand Kumar, Moumita Sadhu, Niladri Das, **Pradip Kumar Sadhu**, Debabrata Roy, Ankur Ganguly, "A Survey on High-Frequency Inverter and Their Power Control Techniques for Induction Heating Applications", Journal of Power Technologies (Thomson Reuters – ESCI), ISSN: 2083-4187, 97 (3), pp. 201–213, 2017 (Q4)

Modified on 23rd April 2024

113. Soumya Das, **Pradip Kumar Sadhu**, Biplab Satpati, Alok Kumar Shrivastav, "An Innovative Harmonic Reduction Strategy to Ascertain the Stability of A Grid-Connected Photovoltaic System", Rev. Roum. Sci. Techn. – Électrotechn. et Énerg. (Thomson Reuters - Science Citation Index Expanded SCIE), 62(2), ISSN: 0035-4066, pp. 165–169, Bucarest, 2017 (Q3)

114. Avijit Chakraborty, Debabrata Roy, Titas Kumar Nag, **Pradip Kumar Sadhu**, Nitai Pal, "Open Loop Power Control of a Two-Output Induction Heater", Rev. Roum. Sci. Techn. – Électrotechn. et Énerg. (Thomson Reuters - Science Citation Index Expanded SCIE), 62(1), ISSN: 0035-4066, pp. 48–54, Bucarest, 2017 (Q3)

115. Rajesh Dey , Suman Kumar Laha , **Pradip Kumar Sadhu** , Ankur Ganguly , Achintya Das, "System Identification through different variants of adaptive algorithim", Sci.Int. (Lahore), (Thomson Reuters- Zoological Record), ISSN 1013-5316, Vol.29(4), pp.807-811, 2017

116. Agamani Chakraborty, Debabrata Roy, **Pradip Kumar Sadhu**, Ankur Ganguly, Atanu Banerjee, "(0549) An Interference of High Frequency Series Resonant Inverter in Domestic Induction Heater Estimation in Emission Control Using FEM" Journal of Power Technologies, (Thomson Reuters – Emerging Science Citation Index E-SCI) Vol.97(4), pp.283-288, 2017 (Q4)

117. Debabrata Roy, Ashok Kr Naskar and **Pradip Kumar Sadhu**, "(0531) A Mathematical Analysis of Two Dimensional Steady State Heat Conduction in the Coil of an Induction Heater Using Finite Element Method" Journal of Power Technologies, (Thomson Reuters – Emerging Science Citation Index E-SCI) Vol.97(3), pp.214-219, 2017 (Q4)

118. Murari Lal Azad, **Pradip Kumar Sadhu**, Soumya Das, Biplab Satpati, Anagh Gupta, P. Arvind, Riya Biswas, "An Improved Approach to Design a Photovoltaic Panel"- Indonesian Journal of Electrical Engineering and Computer Science, Vol. 5(3), pp.515-520, 2017. DOI: 10.11591/ijeecs.v5.i3.pp515-520 (SCOPUS)

119. Soumya Das, **Pradip Kumar Sadhu**, Biplab Satpati, Alok Kumar Shrivastav, "Design and Implementation of An Intelligent Dual Axis Automatic Solar Tracking System", Rev. Roum. Sci. Techn. – Électrotechn. et Énerg. (Thomson Reuters - Science Citation Index Expanded SCIE), 61(4), ISSN: 0035-4066, pp. 383–387, Bucarest, 2016

120. Palash Pal, Debabrata Roy, AvikDatta, **Pradip Kumar Sadhu**, Atanu Banerjee, "A Closed-Loop Power Controller Model of Series-Resonant-Inverter-Fitted Induction Heating System", Archives of Electrical Engineering (Thomson Reuters - Emerging Sources Citation Index Journal E-SCI), ISSN: 1427-4221, VOL. 65(4), pp. 827-841, 2016.

121. MeetaraniTripathy, **Pradip Kumar Sadhu**, Sarat Kumar Panda, "A critical review on building integrated photovoltaic products and their applications"- Renewable and Sustainable Energy Reviews, Vol. 61, pp. 451-465, 2016. (Thomson Reuters - Science Citation Index Expanded SCIE)

122. Partha Sarothi Sikder, Nitai Pal and **Pradip Kumar Sadhu**, "Study on Sustainable Hybrid Off-grid Power Supply System for Isolated Sagar Island"- Indian Journal of Science and Technology (Thomson Reuters- Zoological Record), Vol 9(44), DOI: 10.17485/ijst/2016/v9i44/88856, pp. 1-11, November 2016,.

123. Ananyo Bhattacharya, **Pradip Kumar Sadhu**, Aritra Bhattacharyya, Nitai Pal, "Voltage Controlled Hybrid Resonant Inverter – An Essential Tool for Induction Heated Equipment"- Revue Roumaine des Sciences Techniques Série Électrotechnique et Énergétique, (Thomson Reuters - Science Citation Index Expanded SCIE), Vol. 61, no. 3, pp. 273-277, Bucarest, 2016.

124. Goswami, U., **Sadhu, P. K**., & Chakraborty, S., "Enhancement of controllability to improve the transient performance for captive power plant in islanding condition: A case of study" - International Journal of Electrical Power & Energy Systems, (Thomson Reuters - Science Citation Index Expanded SCIE) 83, 2016, pp.188-202.

125. Alok Kumar Shrivastav, **Pradip Kumar Sadhu**, Ankur Ganguly, Saumen Dhara, "An Approach to Voltage Quality Enhancement by Introduction of CWVM for Distribution System" International Journal of Power Electronics and Drive System (IJPEDS) (SCOPUS, SCIMago Journal), ISSN: 2088-8694, Vol. 7, No. 4, December 2016, pp. 1276-1282, http://doi.org/10.11591/ijpeds.v7.i4.pp1276-1282

Modified on 23rd April 2024

126. Saumen Dhara, Alok Kumar Shrivastav, **Pradip Kumar Sadhu**, Ankur Ganguly, "A Fault Current Limiter Circuit to Improve Transient Stability in Power System" International Journal of Power Electronics and Drive System (IJPEDS) (SCOPUS, SCIMago Journal), ISSN: 2088-8694, Vol. 7, No. 3, September 2016, pp. 769-780, http://doi.org/10.11591/ijpeds.v7.i3.pp769-780

127. Saumen Dhara, Alok Kumar Shrivastav, **Pradip Kumar Sadhu**, Ankur Ganguly, "Harmonics Reduction in a Current Source Fed Quasi-Resonant Inverter Based Induction Heater" International Journal of Power Electronics and Drive System (IJPEDS) (SCOPUS, SCIMago Journal), ISSN: 2088-8694, Vol. 7, No. 2, June 2016, pp. 431-439, http://doi.org/10.11591/ijpeds.v7.i2.pp431-439

128. Suprava Chakraborty , **Pradip Kumar Sadhu**, "Mathematical Methodology to Predict Energy Generation of Grid Connected PV Power Plants in India", Current World Environment (Thomson Reuters- Zoological Record), Vol. 11(1), pp. 156-166, 2016.

129. Soumya Das, **Pradip Kumar Sadhu**, Suprava Chakraborty, Saumen Dhara, Shramabati Sen, "Design and Implementation of A PV Powered Tri-Cycle", Current World Environment (Thomson Reuters- Zoological Record), Vol.11(1), pp. 83-88, 2016.

130. Chakraborty, S., **Sadhu, P**., & Goswami, U. "Barriers in the Advancement of Solar Energy in Developing Country like India" Problemy Ekorozowju/Problems of Sustainable Development, (Thomson Reuters – Social Science Citation Index SSCI), 11(2), 2016, p.p.75-80.

131. Avijit Chakraborty, **Pradip Kumar Sadhu**, Kallol Bhaumik, Palash Pal, and Nitai Pal. "Performance Analysis of High frequency Parallel Quasi Resonant Inverter Based Induction Heating System." International Journal of Electrical and Computer Engineering (IJECE) (SCOPUS Indexed Journal), Vol.6, no. 2, April 2016, pp. 447-457.

132. Ananyo Bhattacharya, Kaushik Sit, **Pradip Kumar Sadhu**, Nitai Pal- "A Novel Circuit Topology of Modified Switched Boost Hybrid Resonant Inverter Fitted Induction Heating Equipment"- Archives of Electrical Engineering (ESCI under Thomson Reuters), ISSN: 1427-4221, Vol. 65 (4), pp. 815-826, 2016

133. Kaushik Neogi, **Pradip Kumar Sadhu** and Atanu Banerjee, " A review work on high frequency Induction curing of porous asphalt concrete" International Journal of Power Electronics and Drive system (IJPEDS), ISSN: 2088-8694, Vol. 7, No. 3, pp. 866-873, September 2016. (SCOPUS)

134. Debabrata Roy, AnkurGanguly, **Pradip Kumar Sadhu**, "A New Approach to Stability Analysis of Pc Based Monitoring Condition of Human Heart Sounds Using Matlab for Miners", Majlesi Journal of Multimedia Processing, Print-ISSN: 2251-6255, Online-ISSN: 2423-4737, 5(1), June 2016

135. Soumya Das, **Pradip K Sadhu** , Suprava Chakraborty, Saumen Dhara and Shramabati Sen, "Design and Implementation of A PV Powered Tri-Cycle", Current World Environment (Thomson Reuters- Zoological Record) ISSN**:** 0973-4929**,** Vol.11, No.1, 2016.

136. MeetaraniTripathy, **Pradip Kumar Sadhu**,"Building Integrated Photovoltaic is a Cost Effective and Environmental Friendly Solution"- Indonesian Journal of Electrical Engineering and Computer Science, Vol. 14(1), pp.49-54, 2015. (SCOPUS)

137. MeetaraniTripathy, **Pradip Kumar Sadhu**, "Building Integrated Photovoltaic Market trend and its Applications"- Indonesian Journal of Electrical Engineering and Computer Science, Vol. 14(2), pp.185-190, 2015. (SCOPUS)

138. Alok Kumar Shrivastav, **Pradip Kumar Sadhu**, Ankur Ganguly, Nitai Pal, "A Novel Transient Current Limiter Based on Three-Phase Thyristor Bridge for Y-yg Transformers" International Journal of Power Electronics and Drive System (IJPEDS)(SCIMago, SCOPUS Indexed Journal), ISSN: 2088-8694, Vol. 6, No. 4, December 2015, pp. 747–758.

139. Himanshu Sharma, Nitai Pal, Yaduvir Singh, **Pradip Kumar Sadhu**, "Development and Simulation of Stand Alone Photovoltaic Model Using Matlab/Simulink" International Journal of Power Electronics and Drive System (IJPEDS)(SCIMago, SCOPUS Indexed Journal), ISSN: 2088-8694, Vol. 6, No. 4, December 2015, pp. 703–711

Modified on 23rd April 2024

140. Soumya Das, Suprava Chakraborty, **Pradip K. Sadhu** and Oruganti Sankara Sastry, "Design and experimental execution of a microcontroller (μC)-based smart dual-axis automatic solar tracking system" Energy Science & Engineering 2015, (Thomson Reuters - Science Citation Index Expanded SCIE) ISSN: 2050-0505, Nov 25, 2015, Volume 3, Issue 6, doi: 10.1002/ese3.102, pp. 558-564.

141. Suprava Chakraborty and **Pradip Kumar Sadhu**, "Technical mapping of solar photovoltaic for the Coal City of India" Renewables: Wind, Water, and Solar, ISSN: 2198-994X, Vol. :2:11, July 2015, DOI 10.1186/s40807-015-0013-1

142. Soumya Das, **Pradip Kumar Sadhu**, Suprava Chakraborty, Akanksha Ranjan and Monika Yadav, "New Generation PV Powered Country Boat Using Buck-Boost Chopper and PWM for Green Sailing" International Journal of Mechatronics, Electrical and Computer Technology (IJMEC) PISSN: 2411-6173, EISSN: 2305-0543, Vol. 5(16), Jul, 2015, pp. 2217-2228.

143. Palash Pal, **Pradip Kumar Sadhu** and Nitai Pal, "Design and simulation of Fuzzy Logic Controller Based Modified Half Bridge Resonant Inverter Fed Induction Heating System" International Journal of Mechatronics, Electrical and Computer Technology (IJMEC) PISSN: 2411-6173, EISSN: 2305-0543, Vol. 5(16), Jul, 2015, pp. 2239-2245.

144. **Pradip Kumar Sadhu,** Soumen Dhara, Alok Kumar Shrivastav and Debabrata Roy, "Superconducting Fault Current Limiters for Micro Grid Application" International Journal of Mechatronics, Electrical and Computer Technology (IJMEC) PISSN: 2411-6173, EISSN: 2305-0543, Vol. 5(16), Jul, 2015, pp. 2246-2257.

145. Prabhat Chandra Ghosh, **Pradip K Sadhu**, Debabrata Roy and Soumya Das, "Selection of semiconductor switches in high frequency inverter fitted contactless power transfer system for reducing input current distortion" World Journal of Engineering, (ESCI under Thomson Reuters), ISSN: 1708-5284, 12(5) (2015), pp. 471-478.

146. Nibedita Das, Nitai Pal, **Pradip Kumar Sadhu**, "Design of Interior Daylighting Shading Control using LV and PVsyst Software" TELKOMNIKA Indonesian Journal of Electrical Engineering, (SCIMago, SCOPUS Indexed Journal), ISSN: 2302-4046, Vol. 14, No. 3, June 2015, pp. 388-401..

147. Suprava Chakraborty, **Pradip Kumar Sadhu** and Nitai Pal, "Technical mapping of solar PV for ISM-an approach toward green campus" Energy Science & Engineering, (Thomson Reuters - Science Citation Index Expanded SCIE) ISSN: 2050-0505, Vol. 3, No. 3, May 2015, pp. 196-206.

148. Debabrata Roy, **Pradip Kumar Sadhu**, Nitai Pal, "Reduction of Harmonics Contained in the Input Power Supply – Dynamic Tool for Current Source Full-Bridge Inverter Based Induction Heater" PRZEGLAD ELEKTROTECHNICZNY (ESCI under Thomson Reuters), ISSN: 0033-2097, R. 91, NR 4/2015, April 2015, pp. 123-126

149. Palash Pal**, Pradip Kumar Sadhu,** Nitai Pal, and Sourish Sanyal, "An Exclusive Design of EMI-RFI Suppressor for Modified Half Bridge Inverter Fitted Induction Heating Equipment" International Journal of Mechatronics, Electrical and Computer Technology (IJMEC) PISSN: 2411-6173, EISSN: 2305-0543, Vol. 5(15), April, 2015, pp. 2084-2100.

150. **Pradip Kumar Sadhu**, Palash Pal**,** Animesh Halder, Ankur Ganguly, Nitai Pal, and Prabir Bhowmik. "A New Approach of Localized Human Blood Reheating Using High Frequency Converter." TELKOMNIKA Indonesian Journal of Electrical Engineering, (SCIMago, SCOPUS Indexed Journal) Vol. 14, no. 1 April 2015, pp. 97 – 102. DOI: 10.11591/telkomnika.v14i1.7262

151. Moumita Sadhu, Suprava Chakraborty, Niladri Das, **Pradip Kumar Sadhu**, "Role of Solar Power in Sustainable Development of India" TELKOMNIKA Indonesian Journal of Electrical Engineering, (SCIMago, SCOPUS Indexed Journal) ISSN: 2302-4046, Vol. 14, No. 1, April 2015, pp. 34-41.

152. Nibedita Das, Nitai Pal, **Sadhu K. Pradip**, "Economic cost analysis of LED over HPS flood lights for an efficient exterior lighting design using solar PV" Building and Environment, (Thomson Reuters - Science Citation Index Expanded SCIE) 89 (2015), ISSN: 0360-1323, http://dx.doi.org/10.1016/j.buildenv.2015.03.005, pp. 380-392.

153. Soumya Das, **Pradip K Sadhu**, Suprava Chakraborty, Malayendu Saha and Moumita Sadhu, "Life cycle economic analysis of stand-alone solar pv system in India – a relative study" World Journal of Engineering, (ESCI under Thomson Reuters), ISSN: 1708-5284, 12(1) (2015), pp. 37-44.

Modified on 23rd April 2024

154. S. Vamsi Krishna, Dr. Nitai Pal **and Prof. Pradip Kumar Sadhu**, "Post Disaster Illumination for Underground Mines" TELKOMNIKA Indonesian Journal of Electrical Engineering (SCIMago Journal), ISSN: 2302-4046, Vol. 13, No. 3, March 2015, pp. 425-430. DOI: 10.11591/telkomnika.v13i3.7069

155. **Pradip Kumar Sadhu**, Palash Pal, Nitai Pal and Sourish Sanyal, "Selection of Power Semiconductor Switches in M.H.B.R.I. Fitted Induction Heater for Less Harmonic Injection in Power Line" International Journal of Power Electronics and Drive System (IJPEDS)(SCIMago, SCOPUS Indexed Journal), ISSN: 2088-8694, Vol. 6, No. 1, March 2015, pp. 121–128. DOI:10.11591/ijpeds.v6.i1.pp121-128

156. Soumya Das, **Pradip Kumar Sadhu**, Nitai Pal, Gourav Majumdar and Saswata Mukherjee, "Solar Photovoltaic Powered Sailing Boat Using Buck Converter" International Journal of Power Electronics and Drive System (IJPEDS) (SCOPUS, SCIMago Journal), ISSN: 2088-8694, Vol. 6, No. 1, March 2015, pp. 129-136. DOI:10.11591/ijpeds.v6.i1.pp129-136

157. Ananyo Bhattacharya, **Pradip Kumar Sadhu** and Nitai Pal, "An Energy Efficient Circuit Topology of Z-Source Hybrid Resonant Inverter Fitted Induction Heating Equipment" International Journal of Mechatronics, Electrical and Computer Technology (IJMEC) PISSN: 2411-6173, EISSN: 2305-0543, Vol. 5(14), Jan, 2015, pp. 1933-1939.

158. Agamani Chakraborty, Atanu Banerjee, **Pradip Kumar Sadhu**, "A Comparative Analysis for Optimization of Switching Frequency in Induction Heated System Employed For Hyperthermia Treatment" Research Journal of Pharmaceutical, Biological and Chemical Sciences, 6(1), ISSN:0975-8585, pp.1506-1510, 2015.

159. Agamani Chakraborty, **Pradip Kumar Sadhu**, Atanu Banerjee**, "**Review of Induction Heating system – a comprehensive replacement BSD 2000 in Hyperthermia Treatment Technology", Journal of Biological Pharmaceutical and Chemical Research,2(1),ISSN-2349-3076, pp.1-12,2015.

160. Suprava Chakraborty, **Pradip Kumar Sadhu**, Nitai Pal, "HVDC Application for Different Solar PV Technology Combinations in India" TELKOMNIKA Indonesian Journal of Electrical Engineering, (SCIMago, SCOPUS Indexed Journal) ISSN: 2302-4046, Vol. 12, No. 12, December 2014, pp. 8008-8014. DOI: 10.11591/telkomnika.v12i12.6822

161. Suprava Chakraborty, **Pradip Kumar Sadhu**, Nitai Pal, "New Location Selection Criterions for Solar PV Power Plant" International Journal of Renewable Energy Research (IJRER), (SCIMago, SCOPUS Indexed Journal) ISSN: 1309-0127, Vol.4, No.4, 2014, pp. 1020-1030.

162. Soumya Das, **Pradip Kumar Sadhu**, Suprava Chakraborty, Nitai Pal and Gourav Majumdar "New Generation Solar PV Powered Sailing Boat Using Boost Chopper" TELKOMNIKA Indonesian Journal of Electrical Engineering (SCI Mago, SCOPUS Indexed Journal), ISSN: 2302-4046, Vol. 12, No. 12, December 2014, pp. 8077-8084. DOI: 10.11591/telkomnika.v12i12.6677

163. Soumya Das, **Pradip Kumar Sadhu**, Nitai Pal and Suprotim Mukherjee "Single Axis Automatic Solar Tracking System using Microcontroller" TELKOMNIKA Indonesian Journal of Electrical Engineering (SCI Mago, SCOPUS Indexed Journal), ISSN: 2302-4046, Vol. 12, No. 12, December 2014, pp. 8028-8032. DOI: 10.11591/telkomnika.v12i12.6725

164. Suprava Chakraborty, **Pradip Kumar Sadhu**, Nitai Pal, "A New Approach towards Ideal Location Selection for PV Power Plant in India" TELKOMNIKA Indonesian Journal of Electrical Engineering (SCI Mago, SCOPUS Indexed Journal),, ISSN: 2302-4046, Vol. 12, No. 11, November 2014, pp. 7681-7689. DOI: 10.11591/telkomnika.v12i11.6677

165. Debabrata Roy, **Pradip Kumar Sadhu**, Nitai Pal, "Hysteresis Current Control with Input Filter Design for High Frequency Series Resonant Full Bridge Inverter" TELKOMNIKA Indonesian Journal of Electrical Engineering (SCI Mago, SCOPUS Indexed Journal),, ISSN: 2302-4046, Vol. 12, No. 11, November 2014, pp. 7650-7658. DOI: 10.11591/telkomnika.v12i11.6573

166. **Pradip Kumar Sadhu**, Debabrata Roy, Nitai Pal, Sourish Sanyal "Design and Analysis of EMI and RFI Suppressor for High Frequency Full Bridge Resonant Inverter Fitted Induction Heater" International Journal of Mechatronics, Electrical and Computer Technology (IJMEC) ISSN: 2305-0543, Vol. 4(12), Jul, 2014, pp. 1328-1352,

Modified on 23rd April 2024

167. **Pradip Kumar Sadhu**, Debabrata Roy, Nitai Pal and Sourish Sanyal, "Selection of Appropriate Semiconductor Switches for Induction Heated Pipe-Line using High Frequency Full Bridge Inverter" International Journal of Power Electronics and Drive System (IJPEDS, SCIMago & SCOPUS Journal), ISSN: 2088-8694, Vol. 5, No. 1, July 2014, pp. 112–118. DOI: 10.11591/ijpeds.v5i1.6108

168. Nitai Pal, S. V. Krishna and **Pradip Kumar Sadhu**, "Designing Haul Road Lighting System" – published in the Australasian Mine Safety Journal (AMSJ), Issue 18, Spring (October) 2013, pp 42-45.

169. Dola Sinha, **Pradip Kumar Sadhu**, Nitai Pal and Nirmal Baran Hui, "Genetic neural-based modeling of AC resistance of heating coil used for high-frequency inverter-fed induction cooker", Neural Computing & Application (Springer), (Thomson Reuters - Science Citation Index Expanded SCIE) ISSN : 0941-0643, Vol. 22, No. 7-8, Jun 2013, pp. 1379 – 1388.

170. S. Vamsi Krishna, Nitai Pal and **Pradip Kumar Sadhu**, "Evolution of Efficient Lighting System in Underground Mines" – published in the International Journal of Indian School of Mines (JISM), ISSN : 0973-4295, Volume 1, 2012, pp 07-13

171. Nitai Pal, **Pradip Kumar Sadhu** and Atanu Bandyopadhyay "Selection of Switching Frequency for H.F. Mirror Inverter Employed in Industrial Induction Heating" - International Journal of Computer and Electrical Engineering, Vol. 4, No. 1, ISSN : 1793-8163, January, 2012, pp. 14-18.

172. Niladri Banerjee, **Pradip Kumar Sadhu** and Nitai Pal, "Sensor – Aided Localized Capsule – Cooling Technique for Energy – Efficient Refrigeration" – Journal of Energy, Heat & Mass Transfer, Asia and the Pacific; Vol 33, 2011, P.P. 153-168.

173. Nitai Pal, **Pradip Kumar Sadhu**, Dola Sinha and Atanu Bandyopadhyay, "Selection of Pan Material – A Tool to Improve Output Heating Response of Hybrid Resonant Inverter Fed Four Zones Induction Cooker" – Journal of Energy, Heat & Mass Transfer, Asia and the Pacific; Vol 33, 2011, P.P. 169-185.

174. Nitai Pal, **Pradip Kumar Sadhu**, Dola Sinha and Atanu Bandyopadhyay "Selection of Power Semiconductor Switches – a Tool to Reduce Switching & Conduction Losses of High Frequency Hybrid Resonant Inverter fed Induction Cooker" - International Journal of Computer and Electrical Engineering, Vol. 3, No. 2, ISSN : 1793-8163, April, 2011, pp. 265-270.

175. **Pradip Kumar Sadhu**, Dola Sinha, Nitai Pal and Atanu Bandyopadhyay "A New Generation IGBT Based High-Frequency Mirror Inverter for Induction Heating" - International Journal of Electrical Engineering and Electrical Systems, Vol. 03, Issue No. 01, Fall Edition 2010, July 2010 – September 2010, pp. 38-44.

176. Mohanta Dusmanta Kumar, **Sadhu Pradip Kumar,** Chakrabarti R.,"Safety and reliability optimisation of captive power plants using intelligent maintenance scheduling"- International Journal of Reliability and Safety, Volume 1, Numbers 1-2, 31 August 2006 , pp. 155-167(13)

177. Dusmanta Kumar Mohanta, **Pradip Kumar Sadhu**, R. Chakrabarti, "Deterministic and stochastic approach for safety and reliability optimization of captive power plant maintenance scheduling using GA/SA-based hybrid techniques: A comparison of results" – Reliability Engineering & System Safety (Thomson Reuters – Science Citation Index SCI & Science Citation Index Expanded SCIE) ISSN: 0951-8320, 92 (2007), Science Direct, Elsevier; P.P. – 187-199, 7th February 2006.

178. Dusmanta Kumar Mohanta, **Pradip Kumar Sadhu**, Rupendranath Chakrabarti, "Fuzzy Markov Model for Determination of Fuzzy State Probabilities of Generating Units Including the Effect of Maintenance Scheduling" – IEEE Transactions on Power Systems, (Thomson Reuters - Science Citation Index Expanded SCIE) Volume 20, Number 4, November 2005, P.P. – 2117-2124.

179. **Pradip Kumar Sadhu**, Narendranath Jana, Rupendranath Chakrabarti and Dilip Kumar Mittra "A Unique Induction Heated Cooking Appliances Range Using Hybrid Resonant Converter" – Journal of Circuits, Systems and Computers, World Scientific, (Thomson Reuters - Science Citation Index Expanded SCIE) ISSN: 0218-1266, Volume 14, Number 3, June 2005, P.P. – 619-630. (SCIE)

Modified on 23rd April 2024

180. Dusmanta Kumar Mohanta, **Pradip Kumar Sadhu**, Rupendranath Chakrabarti, "Optimization of safety and reliability of captive power plant maintenance scheduling using genetic algorithm and simulated annealing" – International Journal of Emerging Electric Power Systems, (ESCI under Thomson Reuters) Berkeley Electronic Press (bepress); ISSN: 1553-779X Vol 3 [2005], Issue 1, Article 1037.

181. Dusmanta Kumar Mohanta, **Pradip Kumar Sadhu**, R. Chakrabarti, "Fuzzy reliability evaluation of captive power plant maintenance scheduling incorporating uncertain forced outage rate and load representation" – Electric Power Systems Research, Science Direct, Elsevier; (Thomson Reuters - Science Citation Index Expanded SCIE) ISSN: 0378-7796, Vol 72, Issue 1, 15 Th November 2004, P.P. – 73-84.

182. **P. K. Sadhu**, S. K. Mukherjee, R.N. Chakrabarti, S. P. Chowdhury and B. M. Karan, "Microprocessor – based energy efficient sterilization for surgical instrument using a new generation inverter topology" – Journal of Energy, Heat & Mass Transfer, Asia and the Pacific; Vol 23, Number 1, March 2001, P.P. – 39-53.

## *NATIONAL JOURNAL*

1. Sujit Dhar, **Pradip Kumar Sadhu**, Debabrata Roy, Soumya Das, "Feasibility Study of the Solar-Powered and Induction CookingBased Mobile Food Court Station in Rural Area of West Bengal" Journal of Institution of Engineers (India) Ser. B 101(2), https://doi.org/10.1007/s40031-020-00444-x, P.P. – 185–191, April 2020.

2. Anand Kumar, Debayan Sarkar, **Pradip Kumar Sadhu**, "Feasibility Study of the Solar-Powered and Induction Cooking Based Mobile Food Court Station in Rural Area of West Bengal" Engineering, Technology & Applied Science Research, Vol. 8, No. 6, P.P. – 3530-3535, 2018.

3. **Pradip Kumar Sadhu**, Nitai Pal, Dola Sinha and Tarun Kumar Chatterjee, "A Comparative Survey on High Efficient Clean Heat Production through Microwave Oven and Induction Cooker" – Industrial Engineering Journal of Indian Institution of Industrial Engineering, Navi Mumbai, Vol II & Issue No. 23, May 2011, pp 08-12.

4. R. P. Gupta, Dr. U. Prasad, **Dr. P. K. Sadhu**, Dr. N. Pal, "Efficient Lighting System for Underground Coal Mines using LED" – Journal of Institution of Engineers (I), Mining Engineering Division;; Vol 91, August 18, 2010, P.P. – 21-24.

5. **P. K. Sadhu**, N. Pal and Dola Sinha, "An Energy Efficient MCT based H.F. Inverter for Operating CFL from Solar PV Charged Batteries" – Journal of IEEMA, Mumbai; Volume 1, No – 11, July 2010, P.P. – 84-88.

6. N. Pal, **Dr. P. K. Sadhu**, Dr. R. N. Chakrabarti, "Choice of Pan Material in Radio-frequency Mirror Inverter Induction Cooker" – Journal of Institution of Engineers (I); Vol 89, March 18, 2009, P.P. – 09-18.

7. **Dr. P. K. Sadhu**, Dr. S. Chattopadhyaya, Dr. T. K. Chatterjee and Dr. D. K. Mittra, "Online Monitoring and Actuation for Curing of Rubber Conveyor Belts" – Journal of Institution of Engineers (I), Mechanical Engineering Division;; Vol 89, October 17, 2008, P.P. – 31-35.

8. Dr. R. N. Chakrabarti, D. K. Mohanta, **Dr. P. K. Sadhu**, "Possibilistic Approach for Evaluation of Forced Outage Rates of Generating Units including the Effect of Maintenance Scheduling" – Journal of Institution of Engineers (I); Vol 87, March 2007, P.P. – 48-52.

9. **Dr. P. K. Sadhu**, Nitai Pal, Prof. (Dr.) Rupendranath Chakrabarti, and Prof. (Dr.) D. K. Mittra, "A dynamic model for the simulation of induction cooktop" – Industrial Engineering Journal of Indian Institution of Industrial Engineering, Navi Mumbai; Vol XXXV, No 6, June 2006, P.P. – 37-41.

10. D. K. Mohanta, **Dr. P. K. Sadhu**, Dr. R. N. Chakrabarti, "Captive Power Plant Maintenance Scheduling using Genetic Algorithm and Simulated Annealing based Hybrid Techniques for Safety and Reliability Optimization" – Journal of Institution of Engineers (I); Vol 86, March 2006, P.P. – 319-326.

11. N. Pal, **Dr. P. K. Sadhu**, Dr. R. N. Chakrabarti, "A Comparative Study of HF Mirror Inverter for Induction Cooker through Real-time and PSPICE Simulation" – Journal of Institution of Engineers (I); Vol 86, March 2006, P.P. – 268-274.

Modified on 23rd April 2024

12. **Dr. P. K. Sadhu**, S. Chattopadhyaya, Prof. (Dr.) D. K. Mittra**,** "On-line Monitoring and Control System for Vulcanization of Truck Tyres" – Journal of Institution of Engineers (I), Mechanical Engineering Division; Vol 86, January 2006, P.P. – 175-177.

13. Nitai Pal, **Dr. P. K. Sadhu**, and Prof. (Dr.) Rupendranath Chakrabarti, "Electromagnetic and radio frequency interferences suppressor for industrial induction heating equipment" – Industrial Engineering Journal of Indian Institution of Industrial Engineering, Navi Mumbai; Vol XXXIV, No 11, November 2005, P.P. – 12-14.

14. Narendranath Jana, **Dr. P. K. Sadhu**, and Prof. (Dr.) Rupendranath Chakrabarti, "A novel high-frequency mirror inverter for industrial induction heating" – Industrial Engineering Journal of Indian Institution of Industrial Engineering, Navi Mumbai; Vol XXXIII, No 11, November 2004, P.P. – 25-29.

15. **Dr. P. K. Sadhu**, Swaroop R. and Prof. (Dr.) R. N. Chakrabarti, "A novel logic based automation concept on locker operation for banking industry" – Industrial Engineering Journal of Indian Institution of Industrial Engineering, Navi Mumbai; Vol XXXIII, No 5, May 2004, P.P. – 19-23.

16. **Dr. P. K. Sadhu**, Dr. R. N. Chakrabarti, Mrs. N. L. Nath, Naveen.K. Batchu, Smita Kumari, Kumari Rimjhim**,** "Analysis of a series resonant superimposed inverter applied to induction heating" – Journal of Institution of Engineers (I); Vol 84, March 2004, P.P. – 214-217.

17. **P. K. Sadhu**, R.N. Chakrabarti, S. P. Chowdhury and B. M. Karan, "A new generation energy efficient sterilization plant for surgical instruments" – The Indian Journal of Hospital Pharmacy, New Delhi; Vol XL, No 2, March-April 2003, P.P. – 60-64.

18. Swaroop R., **Prof. P. K. Sadhu**, Prof. (Dr.) S. K. Mukherjee, Prof. (Dr.) R.N. Chakrabarti and Prof. (Dr.) B. M. Karan, "The design of a new generation microprocessor–based interlocking device" – Industrial Engineering Journal of Indian Institution of Industrial Engineering, Navi Mumbai; Vol XXXII, No 8, Aug 2003, P.P. – 7-9.

19. **P. K. Sadhu**, S. K. Mukherjee, R.N. Chakrabarti, B. M. Karan and Swaroop R. "A new generation PC–based interlocking device" – Industrial Engineering Journal of Indian Institution of Industrial Engineering, Navi Mumbai; Vol XXXI, No 8, Aug 2002, P.P.– 7-10.

20. **P. K. Sadhu**, S. K. Mukherjee, R.N. Chakrabarti, S. P. Chowdhury and B. M. Karan, "High efficient contamination free clean heat production" – Indian Journal of Engineering & Material Sciences, National Institute of Science Communication, New Delhi; (Thomson Reuters - Science Citation Index Expanded SCIE) ISSN: 0971-4588, Vol 9, June 2002, P.P. – 172-176.

21. **P. K. Sadhu**, R.N. Chakrabarti and S. P. Chowdhury, "A new generation fluid heating in non–metallic pipe–line using BJT and IGBT" – Journal of Institution of Engineers (I); Vol 82, March 2002, P.P. – 273-280. (Awarded Certificate of merit) SCOPUS

22. **P. K. Sadhu**, S. K. Mukherjee, R.N. Chakrabarti, S. P. Chowdhury and B. M. Karan, "A new generation microprocessor based radio – frequency operated induction heating for sterilization & boiler plant" – Journal of IEEMA, Mumbai; Vol XXII, No – 2, Feb 2002, P.P. – 36-48.

23. **P. K. Sadhu**, S. K. Mukherjee, R.N. Chakrabarti, S. P. Chowdhury and B. M. Karan, "A new generation microprocessor – based series resonant inverter for induction heated cooking appliances" – Industrial Engineering Journal of Indian Institution of Industrial Engineering, Navi Mumbai; Vol XXX, No 9, Sep 2001, P.P. – 10-15.

## International Conference

1. Karmakar, S., Sadhu, P.K. (2023). Man–Machine Interface in Designing Through Simulation in Solar Power Development in India. In: Biswas, A., Islam, A., Chaujar, R., Jaksic, O. (eds) Microelectronics, Circuits and Systems. Lecture Notes in Electrical Engineering, vol 976. Springer, Singapore. https://doi.org/10.1007/978-981-99-0412-9_8

Modified on 23rd April 2024

2. Sarkar, D., Sadhu, P.K. (2022). Performance Assessment of Hybrid Triple-Tied BIPV Array Configurations for Maximising Power Output Under Patterns of Partial Shading. In: Mandal, J.K., Hsiung, PA., Sankar Dhar, R. (eds) Topical Drifts in Intelligent Computing. ICCTA 2021. Lecture Notes in Networks and Systems, vol 426. Springer, Singapore. https://doi.org/10.1007/978-981-19-0745-6_54

3. D. Sarkar, R. K. Sahoo, A. Kumar and P. K. Sadhu, "Comprehensive performance analysis of different MPPT algorithms for Building Integrated Photovoltaic system," 2021 IEEE Mysore Sub Section International Conference (MysuruCon), 2021, pp. 1-6, doi: 10.1109/MysuruCon52639.2021.9641543.

4. M. L. Azad, S. Das, P. K. Sadhu and P. Arvind, "High-Performance Algorithms to Ascertain the Power Generation In A Photovoltaic System Using Fuzzy Logic Controller," 2020 International Conference on Intelligent Engineering and Management (ICIEM), 2020, pp. 425-430, doi: 10.1109/ICIEM48762.2020.9160083.

5. M. L. Azad, P. K. Sadhu and S. Das, "Comparative Study Between P&O and Incremental Conduction MPPT Techniques- A Review," 2020 International Conference on Intelligent Engineering and Management (ICIEM), 2020, pp. 217-222, doi: 10.1109/ICIEM48762.2020.9160316.

6. S. Bihari, U. Goswami, A. Goswami and P. K. Sadhu, "Fast Estimating Method of Effective Life of Power Cable in Industrial Environment," 2019 23rd International Conference Electronics, Palanga, Lithuania, 2019, pp. 1-6, doi: 10.1109/ELECTRONICS.2019.8765696.

7. S. Dutta, S. Verma, P. K. Sadhu, M. J. B. Reddy and D. K. Mohanta, "Islanding detection in a distribution system: A pattern assessment based approach using Concordia analysis," 2019 20th International Conference on Intelligent System Application to Power Systems (ISAP), New Delhi, India, 2019, pp. 1-5, doi: 10.1109/ISAP48318.2019.9065936.

8. A. Kumar, D. Sarkar and P. K. Sadhu, "Boost Power Factor Correction Converter fed Domestic Induction Heating System," 2019 20th International Conference on Intelligent System Application to Power Systems (ISAP), New Delhi, India, 2019, pp. 1-6, doi: 10.1109/ISAP48318.2019.9065975

9. S. Verma, S. Dutta, P. K. Sadhu, M. J. Bharata Reddy and D. K. Mohanta, "Islanding detection using bi-directional energy meter in a DFIG based active distribution network," 2019 International Conference on Computer, Electrical & Communication Engineering (ICCECE), Kolkata, India, 2019, pp. 1-4, doi: 10.1109/ICCECE44727.2019.9001899.

10. A. Kumar, D. Sarkar and P. K. Sadhu, "Boost Power Factor Correction Converter fed Domestic Induction Heating System," 2019 20th International Conference on Intelligent System Application to Power Systems (ISAP), New Delhi, India, 2019, pp. 1-6, doi: 10.1109/ISAP48318.2019.9065975.

11. S. K. Laha, P. K. Sadhu, A. Ganguly, A. K. Naskar and M. Halder, "Development and Performance study of Two Diode model PV cell under multiple varying factors for PV generation," 2018 Fourth International Conference on Research in Computational Intelligence and Communication Networks (ICRCICN), Kolkata, India, 2018, pp. 60-65, doi: 10.1109/ICRCICN.2018.8718700.

12. S. Debatal, T. Roy, A. Dasgupta and P. K. Sadhu, "A Novel Structure of Switched Capacitor Multilevel Inverter with Reduced Device Count," 2018 National Power Engineering Conference (NPEC), Madurai, 2018, pp. 1-6, doi: 10.1109/NPEC.2018.8476699.

13. S. Dhar, D. Roy, B. Dutta, A. Ganguly, P. K. Sadhu and D. Sengupta, "Energy Audit-A Clean, Alternative and Cost-Effective Way to Replace Conventional Energy," 2018 7th International Conference on Reliability, Infocom Technologies and Optimization (Trends and Future Directions) (ICRITO), Noida, India, 2018, pp. 188-197, doi: 10.1109/ICRITO.2018.8748722.

14. P. K. Dash, N. C. Gupta, P. Rani, S. Chakraborty and P. K. Sadhu, "Techno-Economic Performance Analysis of Four Photovoltaic Technology at North-East Region of India," 2018 International Conference on Power Energy, Environment and Intelligent Control (PEEIC), Greater Noida, India, 2018, pp. 751-754, doi: 10.1109/PEEIC.2018.8665481.

Modified on 23rd April 2024

15. S. K. Rajput, P. Rani, P. k. Sadhu, M. Sadhu and N. Das, "Energy Conservation in Textile Industries by Replacing Rewound Motors – An Energy Audit Study," 2018 International Conference on Power Energy, Environment and Intelligent Control (PEEIC), Greater Noida, India, 2018, pp. 820-824, doi: 10.1109/PEEIC.2018.8665587.

16. C. Gorain, P. K. Sadhu and R. Raman, "Analysis of High-Frequency Class E Resonant Inverter and its Application in an Induction Heater," 2018 2nd International Conference on Power, Energy and Environment: Towards Smart Technology (ICEPE), Shillong, India, 2018, pp. 1-6, doi: 10.1109/EPETSG.2018.8659106.

17. A. Kumar, R. Raman, D. Sarkar, P. K. Sadhu and A. Banerjee, "Improvement in Performance of Induction Heating System Using Direct AC-AC Boost Converter," 2018 2nd International Conference on Power, Energy and Environment: Towards Smart Technology (ICEPE), Shillong, India, 2018, pp. 1-5, doi: 10.1109/EPETSG.2018.8658690.

18. R. Raman, P. Sadhu, A. Kumar and P. k. Sadhu, "Design and Analysis of EMI and RFI Suppressor for Induction Heating Equipment Using Vienna Rectifier," 2018 2nd International Conference on Power, Energy and Environment: Towards Smart Technology (ICEPE), Shillong, India, 2018, pp. 1-6, doi: 10.1109/EPETSG.2018.8658871.

19. S. K. Singh, D. Kumar, M. Prakash, A. Kumar and P. K. Sadhu, "Analysis and Control Implementation for Instantaneous Mode Switching Bi-Directional Dc-Dc Converter for Plug-In Electric Vehicle," 2018 2nd International Conference on Power, Energy and Environment: Towards Smart Technology (ICEPE), Shillong, India, 2018, pp. 1-6, doi: 10.1109/EPETSG.2018.8658473.

20. A. Kumar, P. K. Sadhu, R. Raman and J. Singh, "Design Analysis of Full-Bridge Parallel Resonant Inverter for Induction Heating Application Using Pulse Density Modulation Technique," 2018 International Conference on Power Energy, Environment and Intelligent Control (PEEIC), Greater Noida, India, 2018, pp. 398-402, doi: 10.1109/PEEIC.2018.8665571.

21. S. K. Singh, A. Kumar and P. K. Sadhu, "A novel instantaneous mode switching Bi-directional dc-dc converter for dc grid voltage control," 2018 International Conference on Power Energy, Environment and Intelligent Control (PEEIC), Greater Noida, India, 2018, pp. 187-190, doi: 10.1109/PEEIC.2018.8665422.

22. S. K. Laha, A. Ganguly, R. Bhattacharya, P. K. Sadhu and A. K. Naskar, "IoT based Street Light Visibility and Water Logging Monitoring for Development of a Smart City," 2018 7th International Conference on Reliability, Infocom Technologies and Optimization (Trends and Future Directions) (ICRITO), Noida, India, 2018, pp. 671-677, doi: 10.1109/ICRITO.2018.8748798.

23. R. Raman, P. K. Sadhu, A. Kumar and K. Sit, "Design and analysis of RFI and EMI suppressor for high frequency induction heater using filters — A comparative study," 2018 4th International Conference on Recent Advances in Information Technology (RAIT), Dhanbad, 2018, pp. 1-5, doi: 10.1109/RAIT.2018.8389002.

24. A. Shukla, M. Tripathy and P. K. Sadhu, "Radiation based optimization of tilt angle for BIPV," 2018 International Conference on Power Energy, Environment and Intelligent Control (PEEIC), Greater Noida, India, 2018, pp. 195-198, doi: 10.1109/PEEIC.2018.8665615.

25. S. kumar, Apoorva and P. K. Sadhu, "MATLAB-Based Simulation to analyze the aftermath of Partial Shading on Solar Cell," 2018 International Conference on Power Energy, Environment and Intelligent Control (PEEIC), Greater Noida, India, 2018, pp. 437-441, doi: 10.1109/PEEIC.2018.8665486.

26. M. L. Azad, S. Das, P. Kumar Sadhu, B. Satpati, A. Gupta and P. Arvind, "P&O algorithm based MPPT technique for solar PV system under different weather conditions," 2017 International Conference on Circuit ,Power and Computing Technologies (ICCPCT), Kollam, 2017, pp. 1-5, doi: 10.1109/ICCPCT.2017.8074225.

27. R. Swaroop, M. Kaur, P. Suresh and P. K. Sadhu, "Classification of myopathy and neuropathy EMG signals using neural network," 2017 International Conference on Circuit ,Power and Computing Technologies (ICCPCT), Kollam, 2017, pp. 1-5, doi: 10.1109/ICCPCT.2017.8074406.

Modified on 23rd April 2024

28. S. Ramaswamy and P. K. Sadhu, "Forecasting PV power from solar irradiance and temperature using neural networks," 2017 International Conference on Infocom Technologies and Unmanned Systems (Trends and Future Directions) (ICTUS), Dubai, 2017, pp. 244-248, doi: 10.1109/ICTUS.2017.8286013.

29. Goswami U., Chanda M., Ganguly A., Sadhu P.K., Chakraborty S. (2017) Stability Improvement of Captive Generator Sets Utilizing FACTS Device. In: Bhattacharya I., Chakrabarti S., Reehal H., Lakshminarayanan V. (eds) Advances in Optical Science and Engineering. Springer Proceedings in Physics, vol 194. Springer, Singapore, Sep. 2017, pp 681-686. ISBN978-981-10-3907-2, DOIhttps://doi.org/10.1007/978-981-10-3908-9_84

30. T. Roy, N. Aarzoo, P. K. Sadhu, C. Jena and S. Mohapatra, "A novel symmetrical switched capacitor based three-phase cascaded multi-level inverter," 2016 IEEE International Conference on Power Electronics, Drives and Energy Systems (PEDES), Trivandrum, 2016, pp. 1-6, doi: 10.1109/PEDES.2016.7914282.

31. S. Ramaswamy and P. K. Sadhu, "Optimal design of stand alone PV system for a remote location in UAE using Mono-Si cells," 2016 International Conference on Circuit, Power and Computing Technologies (ICCPCT), Nagercoil, 2016, pp. 1-4, doi: 10.1109/ICCPCT.2016.7530319.

32. S. Mondal, T. Roy, A. Dasgupta and P. K. Sadhu, "Study of a new single phase multilevel inverter based on switched capacitor units" 2016 IEEE 1st International Conference on Power Electronics, Intelligent Control and Energy Systems (ICPEICES), Delhi, 2016, pp. 1-4, doi: 10.1109/ICPEICES.2016.7853173.

33. D. Nanda, T. Roy and P. K. Sadhu, "Comparison study of different pulse width modulation techniques for Extended boost Z-source inverter," 2016 IEEE 1st International Conference on Power Electronics, Intelligent Control and Energy Systems (ICPEICES), Delhi, 2016, pp. 1-6, doi: 10.1109/ICPEICES.2016.7853172.

34. P. Priyadarsini, T. Roy, S. Mohapatra and P. K. Sadhu, "Analysis and simulation study of extended boost z-source sparse matrix converter," 2016 IEEE 1st International Conference on Power Electronics, Intelligent Control and Energy Systems (ICPEICES), Delhi, 2016, pp. 1-6, doi: 10.1109/ICPEICES.2016.7853141.

35. B. Mandal, T. Roy, S. Agarwal and P. K. Sadhu, "Switched Capacitor Z-Source Inverter," 2016 IEEE 1st International Conference on Power Electronics, Intelligent Control and Energy Systems (ICPEICES), Delhi, 2016, pp. 1-6, doi: 10.1109/ICPEICES.2016.7853139.

36. S. Karmakar, T. Roy, P. K. Sadhu and S. Mondal, "Analysis and simulation of a new topology of single phase multi-level inverter," 2016 IEEE 1st International Conference on Power Electronics, Intelligent Control and Energy Systems (ICPEICES), Delhi, 2016, pp. 1-6, doi: 10.1109/ICPEICES.2016.7853111.

37. S. Das, P. K. Sadhu and S. Chakraborty, "Green sailing of solar PV powered country boat using buck-boost chopper," 2016 International Conference on Circuit, Power and Computing Technologies (ICCPCT), Nagercoil, 2016, pp. 1-5, doi: 10.1109/ICCPCT.2016.7530283.

38. S. Tiwari, M. Chowdhury, U. Goswami and P. K. Sadhu, "Low power customized new trend remote surveillance system over 3G mobile network," 2016 3rd International Conference on Recent Advances in Information Technology (RAIT), Dhanbad, 2016, pp. 41-45, doi: 10.1109/RAIT.2016.7507872.

39. S. Das, P. K. Sadhu and S. Chakraborty, "Green sailing of solar PV powered country boat using buck-boost chopper," 2016 International Conference on Circuit, Power and Computing Technologies (ICCPCT), Nagercoil, 2016, pp. 1-5, doi: 10.1109/ICCPCT.2016.7530283.

40. S. Das, P. K. Sadhu and A. K. Shrivastav, "Synchronization and harmonic reduction of a grid-connected photovoltaic generation system," 2015 International Conference on Energy, Power and Environment: Towards Sustainable Growth (ICEPE), Shillong, 2015, pp. 1-5, doi: 10.1109/EPETSG.2015.7510097.

41. A. Chakraborty, K. Neogi, A. Banerjee and P. K. Sadhu, "Switching frequency optimization in Hyperthermia treatment using BSD 2000," 2015 International Conference on Energy, Power and Environment: Towards Sustainable Growth (ICEPE), Shillong, 2015, pp. 1-8, doi: 10.1109/EPETSG.2015.7510061.

Modified on 23rd April 2024

42. P. Pal, P. K. Sadhu and N. Pal, "Filter design for harmonics minimization of CSI based contact less induction heater," 2015 International Conference on Energy, Power and Environment: Towards Sustainable Growth (ICEPE), Shillong, 2015, pp. 1-5, doi: 10.1109/EPETSG.2015.7510066.

43. Pal P., Sadhu P.K., Pal N., Bhowmik P. (2015) A New Heat Treatment Topology for Reheating of Blood Tissues After Open Heart Surgery. In: Gupta S., Bag S., Ganguly K., Sarkar I., Biswas P. (eds) Advancements of Medical Electronics. Lecture Notes in Bioengineering. Springer, New Delhi. Print ISBN: 978-81-322-2255-2, https://doi.org/10.1007/978-81-322-2256-9_10

44. D. Sinha, A. B. Das, D. K. Dhak and P. K. Sadhu, "Equivalent circuit configuration for solar PV cell," 2014 1st International Conference on Non Conventional Energy (ICONCE 2014), Kalyani, 2014, pp. 58-60, doi: 10.1109/ICONCE.2014.6808682.

45. P. K. Sadhu, A. Bhattacharya and N. Pal, "Review of microwave oven-a health hazardous tool for cooking as compared to induction cooker," Proceedings of The 2014 International Conference on Control, Instrumentation, Energy and Communication (CIEC), Calcutta, 2014, pp. 137-141, doi: 10.1109/CIEC.2014.6959065.

46. N. Pal, S. V. Krishna and P. K. Sadhu, "Stand alone effective lighting system using defective fluorescent tube light for haul road," Proceedings of The 2014 International Conference on Control, Instrumentation, Energy and Communication (CIEC), Calcutta, 2014, pp. 351-355, doi: 10.1109/CIEC.2014.6959108.

47. N. Das, N. Pal and P. K. Sadhu, "Selection of LED T8 over CFL T8 for an efficient interior lighting design," Proceedings of The 2014 International Conference on Control, Instrumentation, Energy and Communication (CIEC), Calcutta, 2014, pp. 132-136, doi: 10.1109/CIEC.2014.6959064.

48. P. K. Sadhu, A. Bhattacharya and N. Pal, "Dual zone industrial induction heater using MOSFET based high frequency hybrid resonant converter," 2013 IEEE 1st International Conference on Condition Assessment Techniques in Electrical Systems (CATCON), Kolkata, 2013, pp. 335-340, doi: 10.1109/CATCON.2013.6737523.

49. Nitai Pal, Rabindra Nath Raul, S. Vamsi Krishna and **Pradip Kumar Sadhu**, "Modulation Techniques for Power Line Communications" – published in the proceeding of "The 2nd International Conference on Engineering & Applied Science" (ICEAS 2013), at Tokyo, Japan, during 15 – 17 March, 2013, pp 1331-1337.

50. **Pradip Kumar Sadhu**, Nitai Pal and Atanu Bandyopadhyay, "A new generation IGBT based High Frequency Mirror Inverter for Induction Heating" – published in the proceeding of "World Congress of Engineering 2012" (WCE 2012), at the Imperial College, London, U.K., during 4th to 6th July, 2012, ISBN : 978-988-19252-1-3, ISSN : 2078-0958, Volume II, pp 962-967.

51. Nitai Pal, **Pradip Kumar Sadhu** and S. Vamsi Krishna, "A Constant Brightness LED Based Cap Lamps for Underground Coalmines using Buck Regulator" – published in the proceeding of "World Congress of Engineering 2012" (WCE 2012), at the Imperial College, London, U.K., during 4th to 6th July, 2012, ISBN : 978-988-19252-1-3, ISSN : 2078-0958, Volume II, pp 986-990.

52. **Pradip Kumar Sadhu**, "Intelligent Manufacturing System for OTR Tyres using Proactive Control" – published in the proceeding of "International MultiConference of Engineers and Computer Scientist" (IMECS 2012), at The Royal Garden, 69 Mody Road, Tsimshatsui, Kowloon, Hong Kong during 14th to 16th March, 2012, ISBN: 978-988-19251-1-4, pp 1100-1103. (Best Paper Award is achieved) http://www.iaeng.org/publication/IMECS2012/IMECS2012_pp1100-1103.pdf

53. Nitai Pal, **Pradip Kumar Sadhu** and R. Swaroop, "Closed Loop Speed Control of DC Motors used in Rock Drilling and Mud Pump Application" – published in the proceeding of "International MultiConference of Engineers and Computer Scientist" (IMECS 2012), at The Royal Garden , 69 Mody Road, Tsimshatsui, Kowloon, Hong Kong during 14th to 16th March, 2012, ISBN : 978-988-19251-1-4, pp 1052-1054. http://www.iaeng.org/publication/IMECS2012/IMECS2012_pp1052-1054.pdf

54. **Pradip Kumar Sadhu**, Nitai Pal and Atanu Bandyopadhyay, "Choice of Semiconductor Switches for Energy Efficient Induction Heated Pipe-line using H. F. Mirror Inverter" – published in the proceeding of "International MultiConference of Engineers and Computer Scientist" (IMECS 2012), at The Royal Garden, 69 Mody Road,

Modified on 23rd April 2024

Tsimshatsui, Kowloon, Hong Kong during 14th to 16th March, 2012, ISBN : 978-988-19251-1-4, pp 1002-1005. http://www.iaeng.org/publication/IMECS2012/IMECS2012_pp1002-1005.pdf

55. N. Pal, P. K. Sadhu, R. Das, N. Das, R. Swaroop and V. Mukherjee, "TRIAC-DIAC based DC series motor speed controller for mud pumps of drill-rig equipment," 2011 International Conference on Emerging Trends in Electrical and Computer Technology, Nagercoil, 2011, pp. 232-235, doi: 10.1109/ICETECT.2011.5760121.

56. D. Sinha, A. Bandyopadhyay, P. K. Sadhu and N. Pal, "Performance of H.F. mirror inverter with different semiconductor switches for induction heating," 2011 International Conference on Emerging Trends in Electrical and Computer Technology, Nagercoil, 2011, pp. 465-468, doi: 10.1109/ICETECT.2011.5760161.

57. D. Sinha, P. K. Sadhu, N. Pal and A. Bandyopadhyay, "Computation of inductance and AC resistance of a twisted litz-wire for high frequency induction cooker," 2010 International Conference on Industrial Electronics, Control and Robotics, Orissa, 2010, pp. 85-90, doi: 10.1109/IECR.2010.5720156.

58. Dola Sinha, Atanu Bandyopadhyay, **Pradip Kumar Sadhu** and Nitai Pal, "Optimum Construction of Heating Coil for Domestic Induction Cooker." published in the proceeding of International Conference on Modelling, Optimization and Computing (ICMOC 2010) organized by NIT, Durgapur during 28 to 30th October, 2010, P.P. 439–444. https://aip.scitation.org/doi/10.1063/1.3516346, https://doi.org/10.1063/1.3516346

59. N. Pal, P. K. Sadhu, A. Kumar and U. Prasad, "Energy efficient solar CFL lighting system using MOSFET based high frequency inverter for remote areas," 2010 The 2nd International Conference on Computer and Automation Engineering (ICCAE), Singapore, 2010, pp. 646-649, doi: 10.1109/ICCAE.2010.5451314.

60. N. Pal, P. K. Sadhu, R. P. Gupta and U. Prasad, "Review of LED based cap lamps for underground coalmines to improve energy efficiency as compared to other light sources," 2010 The 2nd International Conference on Computer and Automation Engineering (ICCAE), Singapore, 2010, pp. 675-677, doi: 10.1109/ICCAE.2010.5451324.

61. P. K. Sadhu, N. Pal, A. Bandyopadhyay and D. Sinha, "Review of induction cooking - a health hazards free tool to improve energy efficiency as compared to microwave oven," 2010 The 2nd International Conference on Computer and Automation Engineering (ICCAE), Singapore, 2010, pp. 650-654, doi: 10.1109/ICCAE.2010.5451317.

62. P. K. Sadhu, D. Sinha, N. Paul and A. Bandyopadhyay, "Energy efficient induction heated cooking - range using MCT based hybrid resonant converter," 2010 The 2nd International Conference on Computer and Automation Engineering (ICCAE), Singapore, 2010, pp. 637-641, doi: 10.1109/ICCAE.2010.5451312.

63. **P. K. Sadhu**, N. Pal, T. K. Chatterjee, R. P. Gupta and U.Prasad**,** "Energy Conservation and Economic Lighting System using Solid-state Cap Lamps in Underground Coal Mines" – published in the proceedings of the International Conference on "Ninth International Mine Ventilation Congress, 09th IMVC, New Delhi, India" held on 10-13th November, 2009, organized by Department of Mining Engineering, Indian School of Mines, Dhanbad, India. P.P. – 217 – 221, Technical Papers : Poster Session.

64. Nitai Pal, **Pradip Kumar Sadhu**, Dilip Kumar Mittra and Upendra Prasad**,** "Electrical Energy Conservation and Losses Management of Rotating Electrical Machines used in Underground Coal Mines" – published in the proceedings of the International Conference on "Ninth International Mine Ventilation Congress, 09th IMVC, New Delhi, India" held on 10-13th November, 2009, organized by Department of Mining Engineering, Indian School of Mines, Dhanbad, India. P.P. – 223 – 228, Technical Papers : Poster Session..

65. Nitai Pal, **Pradip Kumar Sadhu**, Dilip Kumar Mittra and Rupendranath Chakrabarti**,** "Role of Electromagnetic and Radio Frequency Noise Suppressor for High Frequency Inverter operated Induction Heating Equipment" – published in the proceedings of the International Conference on "Modeling and Simulation, MS'07 India" held on 03-05th December, 2007, organized by Department of Applied Physics, University of Calcutta, India. P.P. – 440 – 443.

66. **Pradip Kumar Sadhu**, Nitai Pal, Rupendranath Chakrabarti and T. K. Chatterjee**,** "Performance Analysis of H.F. Mirror Inverter for Energy Efficient Induction Cooking Appliance Range" – published in the proceedings of the International Conference on "Modeling and Simulation, MS'07 India" held on 03-05th December, 2007, organized by Department of Applied Physics, University of Calcutta, India. P.P. – 444 – 448.

Modified on 23rd April 2024

67. **P. K. Sadhu**, T. K. Chatterjee, D. K. Mittra, S. Chattopadhyaya and Upendra Prasad **,** "A Novel PC-Based Cure Monitoring Process for Batch Production of Rubber Hose, V-Belts & Conveyor Belts" – published in the proceedings of the International Conference on "Emerging Trends in Electrical Engineering" held on 12-14th January, 2007, organized by Department of Electrical Engineering, Jadavpur University, Kolkata – 700 032. P.P. – 7

68. **Pradip Kumar Sadhu**, Nitai Pal, Rupendranath Chakrabarti and Dilip Kumar Mittra**,** "Mathematical Modeling of Induction Cooker with PSPICE Simulation" – published in the proceedings of the International Conference on "Emerging Trends in Electrical Engineering" held on 12-14th January, 2007, organized by Department of Electrical Engineering, Jadavpur University, Kolkata – 700 032, P.P. - 19

69. **Pradip Kumar Sadhu**, Nitai Pal, Narendranath Jana, Rupendranath Chakrabarti and T. K. Chatterjee**,** "A Real Time Model Calculations for Skin Effect of Induction Cooktop (Cooker)" – published in the proceedings of the International Conference on "Emerging Trends in Electrical Engineering" held on 12-14th January, 2007, organized by Department of Electrical Engineering, Jadavpur University, Kolkata – 700 032, P.P. – 35

70. R. Chakrabarti, Dusmanta Kumar Mohanta and **Pradip Kumar Sadhu,** "A System Approach for Optimisation of Safety and Reliability of Captive Power Plant Maintenance Scheduling" – published in the proceedings of the International Conference on "Emerging Trends in Electrical Engineering" held on 12-14th January, 2007, organized by Department of Electrical Engineering, Jadavpur University, Kolkata – 700 032, P.P. - 2

71. **Dr. P. K. Sadhu**, Nitai Pal, Prof. (Dr.) R.N. Chakrabarti, Prof. (Dr.) D. K. Mittra, "A novel energy efficient heat transfer system for induction heated cooking – range using radio-frequency series resonant inverter" – published in the proceedings of Third International Conference on Energy Research & Development (ICERD-3) held on November 21-23, 2005, organized by Kuwait University & Ministry of Energy, Kuwait, Volume II, P.P. – 797-806.

72. Narendranath Jana, Nitai Pal, **Pradip Kumar Sadhu** and Rupendranath Chakrabarti, "Analysis of DC-link half-bridge resonant inverter used for induction cookers" – published in the proceedings of International Conference "PEITSICON-2005" held on 28-29 th January 2005, organized by IEE (UK), Calcutta Branch and Jadavpur University, Kolkata-32; P.P. – 258-261.

73. D. K. Mohanta, S. Khaitan, Dr. R. Chakrabarti, and **Dr. P. K. Sadhu** "Emerging trends in fuzzy based power system reliability analysis"–published in the proceedings of International Conference "ICET-2003" held on 19-21 th Dec 2003, organized by Kalinga Institute of Technology, Bhubaneswar, Orissa ; P.P. –19

74. D. K. Mohanta, M. J. Reddy, Dr. B. M. Karan, **Dr. P. K. Sadhu**, and Prof (Dr.) R. Chakrabarti "Power quality disturbance analysis using Wavelet transform" – published in the proceedings of International Conference "ICET-2003" held on 19-21 th Dec 2003, organized by Kalinga Institute of Technology, Bhubaneswar, Orissa ; P.P. – 30

75. **P. K. Sadhu**, R.N. Chakrabarti, S. P. Chowdhury and B. M. Karan "Clean heat manufacturing by microprocessor control superimposed radio-frequency inverter" – published in the proceedings of International Conference on manufacturing "ICM-2002" held on 9-11th Aug 2002, organized by Department of Industrial and Production Engineering, Bangladesh University of Engineering & Technology, Dhaka-1000; Volume 3

76. N. Sharma, A. K. Singh, M. Ganguli, S. K. Mukherjee, B. N. Das, B. M. Karan, **P. K. Sadhu** and R. N. Chakrabarti "Manufacturing of prosthetic limb using myoelectric or EMG signals" – published in the proceedings of International Conference on manufacturing "ICM-2002" held on 9-11 th Aug 2002, organized by Department of Industrial and Production Engineering, Bangladesh University of Engineering & Technology, Dhaka-1000; Volume 1, P.P. – 654-664

77. R. Swaroop, **P. K. Sadhu**, S. K. Mukherjee, R. Chakrabarti, and B. M. Karan "A new generation microprocessor–based interlocking device" – published in the proceedings of International Conference "CIIC-2001" held on 13-15 th Dec 2001, organized by Department of Applied Physics, University of Calcutta, Kolkata; P.P. – 453-458

78. **P. K. Sadhu**, S. K. Mukherjee, R.N. Chakrabarti, S. P. Chowdhury and B. M. Karan, "The design of microprocessor based series resonant inverter for a new generation contamination free induction heated medicinal plant" – published in the proceedings of International Conference "CIIC-2001" held on 13-15 th Dec 2001, organized by Department of Applied Physics, University of Calcutta, Kolkata; P.P. – 285-292

Modified on 23rd April 2024

79. **P. K. Sadhu**, Prof. (Dr.) S. K. Mukherjee, Prof. (Dr.) R.N. Chakrabarti, (Dr.) S. P. Chowdhury and (Dr.) B. M. Karan, "Microprocessor–based energy efficient dry and wet sterilization for surgical instruments" – published in the proceedings of International Conference "ICERD-2" held on 5-7 th November 2001, organized by Kuwait University, Kuwait.

80. **P. K. Sadhu**, Prof. (Dr.) R.N. Chakrabarti, S. P. Chowdhury and B. M. Karan, "A clean heat generation on fluid in non–metallic pipe–line using BJT and IGBT" – International Seminar on environmentally clean power generation technologies "CLEAN POWER" held on 29-30 th November 2000, organized by MECON Ltd, Ranchi; P.P. – 176-184.

## *NATIONAL CONFERENCE*

1. Swapan kumar Baksi, **Anand Kumar**, Rahul Raman, Paromita Sadhu, Ashiwani Yadav, **Pradip Kumar Sadhu**, "Design and Control of PV fed Z-Source three phase 3-level neutral point clamped multilevel inverter using SVPWM technique," National Conference On Recent Trends ln Electronics And Electrical Engineering (NCRTEEE-2018).

2. Debayan Sarkar, Apoorva Shukla, Anand Kumar, **Pradip Kumar Sadhu**," Role of Internet of Things (IoT) in Maximum Power Extraction from BIPV Modules: A Review for Developing Smart Zero Energy Buildings" New technological Opportunities in Networking and Sciences (NEWTONS-2018).

3. Palash Pal, Debabrata Roy, **Pradip Kumar Sadhu**, Alok shrivastav, Utpal Goswami, Mainak Choudhury, "Design and Analysis of Circulating Current Control Method for High Frequency Inverter Fitted Induction Heater" 2nd National Conference on Mining Equipment: New Technologies, Challenges & Applications (MENTCA- 2015), organized by Department of Mining Machinery Engineering, Indian School of Mines, Dhanbad, Jharkhand, India, during 9th October – 10th October, 2015, pp. 443-447.

4. Anup Kumar Rajak, Vikram and **P. K. Sadhu**, "Analysing the Motion of Holes and Electrons in a Semiconductor - An Useful Conceptual Tool" published in the proceeding of National Seminar on Energy and Environment for Sustainability (EES–2013) organized by BIT Sindri, Dhanbad – 828123, Jharkhand during 16th – 17th March, 2013, pp. 265-268.

5. Swastik Roy, **P. K. Sadhu** and Suhit Datta, "Impact of Energy Band Structure and Equilibrium Carrier Concentration on Commercialization of Solar Cell" published in the proceeding of National Seminar on Energy and Environment for Sustainability (EES–2013) organized by BIT Sindri, Dhanbad – 828123, Jharkhand during 16th – 17th March, 2013, pp. 169-173.

6. Praveen Kumar, Chirag Jain and **P. K. Sadhu**, "The Review of Physics from the Solar Cell" published in the proceeding of National Seminar on Energy and Environment for Sustainability (EES–2013) organized by BIT Sindri, Dhanbad – 828123, Jharkhand during 16th – 17th March, 2013, pp. 128-131.

7. S. Vamsi Krishna, K. Dharma Rao, Ritesh Mishra, Birendar Singh, **P. K. Sadhu** and N. Pal, "Efficient Photovoltaic Conversion and its Antecedents" published in the proceeding of National Seminar on Energy and Environment for Sustainability (EES–2013) organized by BIT Sindri, Dhanbad – 828123, Jharkhand during 16th – 17th March, 2013, pp. 269-273.

8. Nitai Pal, S. Vamsi Krishna, R. Nath Raul and **P. K. Sadhu**, "Study on Coupling Techniques for Power Line Communications" – published in the E-Proceedings of Michael Faraday IET India Summit-2012, organized by Young Professional Section, The Institution of Engineering and Technology-UK, Kolkata Local Network, Kolkata, during November 25, 2012, pp. 163-167.

9. Nitai Pal, **Pradip Kumar Sadhu** and S. Vamsi Krishna "Energy Efficient Stand-alone Lighting System for Surface Mine Haul Roads" published in the proceeding of National Seminar on Mining Equipment – New Technologies Challenges and their Application (MENTCA–2012) organized by Department of Mechanical Engineering & Mining Machinery Engineering, Indian School of Mines, Dhanbad – 826004, Jharkhand during 19th – 21st January, 2012, pp. 269-276.

10. **Pradip Kumar Sadhu** and Nitai Pal "On-line Cure Monitoring System for OTR Tyres using Intelligent and Proactive Control" published in the proceeding of National Seminar on Mining Equipment – New Technologies Challenges and

their Application (MENTCA–2012) organized by Department of Mechanical Engineering & Mining Machinery Engineering, Indian School of Mines, Dhanbad – 826004, Jharkhand during 19th – 21st January, 2012, pp. 233-239.

11. Rabindra Nath Raul, Nitai Pal, **Pradip Kumar Sadhu** and Gautam Sarkar "LED Based Solid-State Cap Lamps for Underground Mines" published in the proceeding of National Seminar on Mining Equipment – New Technologies Challenges and their Application (MENTCA–2012) organized by Department of Mechanical Engineering & Mining Machinery Engineering, Indian School of Mines, Dhanbad – 826004, Jharkhand during 19th – 21st January, 2012, pp. 285-291.

12. Nitai Pal, **Pradip Kumar Sadhu**, Atanu Bandyopadhyay and S. Vamsi Krishna "A Review on Electromagnetic Fields Pollution in Cell-Phone Communication" published in the proceeding of National Seminar on Frontiers in Electronics, Communication, Instrumentation and Information Technology FECIT–2011 organized by Department of Electronics Engineering, Indian School of Mines, Dhanbad – 826004, Jharkhand during 3 – 4th November, 2011, pp 51.

13. S. Vamsi Krishna, Nitai Pal and **Pradip Kumar Sadhu** "A Review on Power Line Communications" published in the proceeding of National Seminar on Frontiers in Electronics, Communication, Instrumentation and Information Technology FECIT–2011 organized by Department of Electronics Engineering, Indian School of Mines, Dhanbad – 826004, Jharkhand during 3 – 4th November, 2011, pp 53.

14. **Pradip Kumar Sadhu**, Nitai Pal, Atanu Bandyopadhyay and Dola Sinha "A Review on Hazards in Microwaved Cooking and Induction Cooking" published in the proceeding of National Seminar on Frontiers in Electronics, Communication, Instrumentation and Information Technology FECIT–2011 organized by Department of Electronics Engineering, Indian School of Mines, Dhanbad – 826004, Jharkhand during 3 – 4th November, 2011, pp 67.

15. N. Pal, **P. K. Sadhu**, Rupam Das, Dola Sinha "Review on Closed Loop Speed Control of DC Motors used in Rock Drilling and Mud Pump Application" – published in the proceedings of the National Conference cum Workshop on "Geological and Technological Facets of CBM, Shale Gas, Energy Resources and $CO_2$ Sequestrain (CSECS2010)" held on 19-20th November, 2010, organized by Department of Applied Geology, Indian School of Mines, Dhanbad-826004.

16. Dola Sinha, **Pradip Kumar Sadhu** and Nitai Pal "Study of TRIAC Control Strategies for Speed Control of Drill Motor for Different Types of Rocks" – published in the proceedings of the National Conference cum Workshop on "Geological and Technological Facets of CBM, Shale Gas, Energy Resources and $CO_2$ Sequestrain (CSECS2010)" held on 19-20th November, 2010, organized by Department of Applied Geology, Indian School of Mines, Dhanbad-826004, pp – 228-234.

17. **P. K. Sadhu**, N. Pal, Mayank Gupta, Shubham Agarwal and Dola Sinha "Some Studies on Various Aspects of Drilling Technology using DC Motors" – published in the proceedings of the National Seminar on "Drills & Drilling – An Update (D & DU – 2010)" held on 23-24th September, 2010, organized by Department of Mechanical Engineering & Mining Machinery Engineering, Indian School of Mines, Dhanbad-826004, P.P. – 73-81.

18. N. Pal, **P. K. Sadhu**, Kumar Saurabh, Rahul, U. Prasad and R. P. Gupta "Review on Speed Control of DC Motors used in Mud Pumps of Drill Rig Equipment" – published in the proceedings of the National Seminar on "Drills & Drilling – An Update (D & DU – 2010)" held on 23-24th September, 2010, organized by Department of Mechanical Engineering & Mining Machinery Engineering, Indian School of Mines, Dhanbad-826004, P.P. – 163-167.

19. D. Sinha, S. Das, M. K. Mukherjee, A. Bandyopadhyay, **P. K. Sadhu** and N. Pal "Speed Control of Drill Motor for Different Types of Rock Mass According to their Drillability" – published in the proceedings of the National Seminar on "Drills & Drilling – An Update (D & DU – 2010)" held on 23-24th September, 2010, organized by Department of Mechanical Engineering & Mining Machinery Engineering, Indian School of Mines, Dhanbad-826004, P.P. – 103-108.

20. **P. K. Sadhu**, N. Pal, D. Sinha**,** and T. K. Chatterjee "A comparative study between microwave cooking and induction heated cooking" – published in the proceedings of the National Seminar on "Frontiers in Electronics, Communication, Instrumentation and Information Technology FECIIT - 2008" held on 13-15th October, 2008, organized by Department of Electronics and Instrumentation Engg., Indian School of Mines University, Dhanbad-826004, P.P. – 318-323.

Modified on 23rd April 2024

21. Nitai Pal, **P. K. Sadhu**, T. K. Chatterjee and U. Prasad**,** "Role of electrical energy conservation and management in industries" – published in the proceedings of the National Seminar on "Crushing, Screening & Conveying CS & C - 2008" held on 11-12th Sep, 2008, organized by Department of Mechanical Engg. & Mining Machinery Engg., Indian School of Mines University, Dhanbad-826004, P.P. – 29-34.

22. **P. K. Sadhu**, Nitai Pal, D. K. Mittra and Dola Sinha**,** "Energy conservation and losses management in rotating electrical machines" – published in the proceedings of the National Seminar on "Crushing, Screening & Conveying CS & C - 2008" held on 11-12th Sep, 2008, organized by Department of Mechanical Engg. & Mining Machinery Engg., Indian School of Mines University, Dhanbad-826004, P.P. – 157-165.

23. **P. K. Sadhu**, Nitai Pal, Rupendranath Chakrabarti and Tarun Kumar Chatterjee**,** "Circuit and Wave Analysis of a New Generation Radio Frequency Mirror Inverter Applied to Induction Heating" – published in the proceedings of the National Seminar on "Condition Monitoring Overview & Advanced Techniques COMOAT-06" held on 15-16th Sep, 2006, organized by Department of Mechanical Engg. & Mining Machinery Engg., Indian School of Mines, Dhanbad-826004, P.P. – 367-378.

24. **P. K. Sadhu**, T. K. Chatterjee, D. K. Mittra, S. Chattopadhyaya and Upendra Prasad **,** "On-line Monitoring and Actuation for production of Rubber Hose, V-Belts & Conveyor Belts" – published in the proceedings of the National Seminar on "Condition Monitoring Overview & Advanced Techniques COMOAT-06" held on 15-16th Sep, 2006, organized by Department of Mechanical Engg. & Mining Machinery Engg., Indian School of Mines, Dhanbad-826004, P.P. – 265-272.

25. S. Chattopadhyaya, **P. K. Sadhu**, T. K. Chatterjee, D. K. Mittra and U. Prasad "Micro-processor based intelligent process control of vulcanization of steel cord belt conveyor" – published in the proceedings of the National Seminar on "Recent advances in theoretical and applied seismology" held on 20-21 th March, 2006, organized by department of Applied Mathematics, Indian School of Mines, Dhanbad-826004, P.P. – 21

26. **Pradip Kumar Sadhu**, Rupendranath Chakrabarti and Swaroop R. "A PC based all time vault system" – published in the proceedings of the 27 th National System Conference "NSC 2003" held on 17-19 th Dec 2003, organized by Department of Electrical Engineering, IIT Kharagpur; P.P. – 91-94

27. **P. K. Sadhu**, S. Chattopadhyaya and D. K. Mittra "Implementation of closed loop PC based control of cure monitoring process of OTR tyres" – published in the proceedings of the National Seminar on "Tyres in Mining & Allied Sectors" (TIMAS) held on 21-22 th Nov, 2003, organized by Indian School of Mines, Dhanbad-826004, P.P. – 21

28. **Pradip Kumar Sadhu**, Rupendranath Chakrabarti, Narendranath Jana and Nitai Pal "A novel radio-frequency series load resonant inverter for induction cooking" – published in the proceedings of the XII th National Power System Conference "NPSC 2002" held on 27-29 th Dec 2002, organized by Department of Electrical Engineering, IIT Kharagpur; Vol – II, P.P. – 595-598

29. **(Dr.) P. K. Sadhu**, Prof. (Dr.) R. N. Chakrabarti, Narendranath Jana and Nitai Pal "High efficient industrial induction heating using phase shifted PWM inverter" – published in the proceedings of National Seminar EPIC "IEEE ACE 2002" held on 20-21 th Dec 2002, organized by IEEE Calcutta Section; P.P. – 418-421

30. **(Dr.) P. K. Sadhu**, N. L. Nath, Prof. (Dr.) R. N. Chakrabarti, Prof. (Dr.) S. K. Mukherjee and Prof. (Dr.) B. M. Karan, "Modified half-bridge superimposed radio-frequency series resonant converter for induction cooking" – published in the proceedings of National Seminar EPIC "IEEE ACE 2002" held on 20-21 th Dec 2002, organized by IEEE Calcutta Section; P.P. – 101-104

31. **Dr. P. K. Sadhu**, Swaroop R., Prof. (Dr.) R. N. Chakrabarti, S Dasgupta, Md. S. Khan and P. K. Gupta, "A novel logic design for PC based all time vault system" – published in the proceedings of National Seminar on Indian power scenario present & future perspective "POWER-2002" held on 1-2 nd November 2002, organized by BIT (Mesra) & Institute of Engineers (I), Ranchi; P.P. – 130-134

32. **Dr. P. K. Sadhu**, Prof. (Dr.) R. N. Chakrabarti, Mrs. N. L. Nath, , N. Jana, N. Pal and N. K. Batchu, "High efficient industrial induction heating using radio-frequency mirror inverter" – published in the proceedings of National Seminar

Modified on 23rd April 2024

on Indian power scenario present & future perspective "POWER-2002" held on 1-2 nd November 2002, organized by BIT (Mesra) & Institute of Engineers (I), Ranchi; P.P. – 117-121

33. **Dr. P. K. Sadhu**, Mrs. N. L. Nath, Prof. (Dr.) R. N. Chakrabarti, and N. Pathak, "A novel approach to real time physical model of energy efficient induction heated appliances" – published in the proceedings of National Seminar on Indian power scenario present & future perspective "POWER-2002" held on 1-2 nd November 2002, organized by BIT (Mesra) & Institute of Engineers (I), Ranchi; P.P. – 143-148

34. **P. K. Sadhu**, Prof. (Dr.) S. K. Mukherjee, Prof. (Dr.) R. N. Chakrabarti, (Dr.) S. P. Chowdhury and (Dr.) B. M. Karan, "High efficient contamination free clean heat production for medicinal plant" – published in the proceedings of the III rd All India People's Technology Congress; held on 9-11 th Feb, 2000, organized by FOSET, Kolkata; P.P. – Energy – 35

35. **P. K. Sadhu**, Prof. (Dr.) R. N. Chakrabarti, (Dr.) S. P. Chowdhury and (Dr.) B. M. Karan, "Design of new generation fluid heating in non–metallic pipe–line incorporating auto-tuning PID control based PWM resonant IGBT inverter" – published in the proceedings of National Seminar on Mechatronics on manufacturing system "MACMAN-2000" held on 25-26 th March 2000, organized by BIT (Mesra) & Institute of Engineers (I), Ranchi

36. **P. K. Sadhu**, Prof. (Dr.) R. N. Chakrabarti, (Dr.) S. P. Chowdhury and (Dr.) B. M. Karan, "New generation fluid heating in non–metallic pipe–line using high-frequency load resonant BJT inverter" – published in the proceedings of National Seminar on applied systems engineering and soft computing "SASESC-2000" held on 4-5 th March 2000, organized by Faculty of Engineering Dayalbagh Educational Institute, Agra; P.P. – 354-359

37. **P. K. Sadhu**, Prof. (Dr.) R. N. Chakrabarti, (Dr.) S. P. Chowdhury and (Dr.) B. M. Karan, "Design of resonant high frequency inverter for induction heating" – published in the proceedings of the VII th West Bengal State Science & Technology Congress; held on Feb 28 – March 1, 2000, organized by Jadavpur University, Kolkata-700 032; P.P. – ELC-3.

38. **P. K. Sadhu**, Prof. (Dr.) R. N. Chakrabarti, (Dr.) S. P. Chowdhury and (Dr.) B. M. Karan, "Energy conversion by resonant high frequency inverter for induction heating" – published in the proceedings of National Seminar on energy technologies for sustainable development "NSE-99" held on 17-18 th Dec 1999, organized by BIT (Mesra), Ranchi; P.P. – 107-118.

## Book Published :

1. **Pradip Kumar Sadhu,** Soumya Das and Shiv Prakash Bihari, "Elements of Electrical Machines" CBS *Publishers & Distributors Pvt. Ltd,* ISBN : 978-93-89396-20-1, January 2020, pp. 1-390.

2. **Pradip Kumar Sadhu,** Soumya Das and Shiv Prakash Bihari, "Basic Electrical Engineering" CBS *Publishers & Distributors Pvt. Ltd,* ISBN : 978-93-87964-31-0, May 2019, pp. 1-492.

3. **Pradip Kumar Sadhu**, and Soumya Das, "Modern Utilization of Electric Power" CBS *Publishers & Distributors Pvt. Ltd,* ISBN : 978-93-87085-18-3, January 2018, pp. 1-364.

4. **Pradip Kumar Sadhu**, and Soumya Das, "Elements of Power Systems" *CRC Press, Taylor & Francis Group*, ISBN-13 : 978-1-4987-3446-2, October 2015, pp. 1-531.

5. **Pradip Kumar Sadhu**, Nitai Pal and Ananya Bhattacharya, "Design of Working Coil Using Litz Wire for Industrial Induction Heater" *Lap Lambert Academic Publishing*, ISBN : 978-3-659-35853-1, March 2013, pp. 1-65.

## Book Chapter:

1. Anamika Das, Ananyo Bhattacharya, and Pradip Kumar Sadhu. "Wireless Chargers for Electric Vehicles" 1st Edition 2024, CRC Press, Pages32, eBook ISBN9781003311829

Modified on 23rd April 2024

2. Dutta, Soham, Akash Kumar Pandey, Sourav Kumar Sahu, and Pradip Kumar Sadhu. "A Net Energy Meter-Based Approach for Islanding Detection in Modern Distribution Systems." In The Internet of Energy, pp. 359-384. Apple Academic Press, 2024.

3. Dhara, Saumen, Alok Kumar Shrivastav, and Pradip Kumar Sadhu. "Smart Grid Modernization: Opportunities and Challenges." *Electric Grid Modernization* (2022): 5. DOI: 10.5772/intechopen.97892

4. Dutta, S., **Sadhu, P.K.**, Cherikuri, M. and Mohanta, D.K., 2022. Application of Artificial Intelligence and Machine Learning Techniques in Island Detection in a Smart Grid. *Intelligent Renewable Energy Systems*, pp.79-109. https://doi.org/10.1002/9781119786306.ch3

5. Roy, T., **Sadhu, P.K.** (2022). A Novel 7-Level Switched-Capacitor Multilevel Inverter with Reduced Components for Renewable Energy Conversion Systems. In: Mishra, M., Sharma, R., Kumar Rathore, A., Nayak, J., Naik, B. (eds) Innovation in Electrical Power Engineering, Communication, and Computing Technology. Lecture Notes in Electrical Engineering, vol 814. Springer, Singapore. https://doi.org/10.1007/978-981-16-7076-3_38

6. Soham Dutta, Pradip Kumar Sadhu, Murthy Cherikuri, Dusmanta Kumar Mohanta, December 2021. Application of Artificial Intelligence and Machine Learning Techniques in Island Detection in a Smart Grid. In: Book Editor(s):Neeraj Priyadarshi, Akash Kumar Bhoi, Sanjeevi kumar Padmanaban, S. Balamurugan, Jens Bo Holm-Nielsen (eds) Intelligent Renewable Energy Systems, Chapter 3. Wiley Online Library. ISBN:9781119786276. https://doi.org/10.1002/9781119786306.ch3

7. A Goswami, U Goswami, PK Sadhu, 2021. Feasibility Study and Analysis of Wind Power Generation Toward Achieving Renewable Powered Island. In: Reddy M.J.B., Mohanta D.K., Kumar D., Ghosh D. (eds) Advances in Smart Grid Automation and Industry 4.0. Lecture Notes in Electrical Engineering, vol 693. Springer, Singapore. ISBN: 978-981-15-7674-4. DOI: 10.1007/978-981-15-7675-1_36

8. Bhaumik K., Datta A., Sadhu P.K. (2020) Effect and Utilization of Leakage Inductance on the Performance of Multi-zone and Multi-load Half-Bridge Inverter Based Induction Heating System. In: Sikander A., Acharjee D., Chanda C., Mondal P., Verma P. (eds) Energy Systems, Drives and Automations. Lecture Notes in Electrical Engineering, vol 664. Springer, Singapore. https://doi.org/10.1007/978-981-15-5089-8_5

9. Nag T.K., Datta A., Sadhu P.K. (2020) Autonomy Oriented Computation for Direct AC-AC Cascaded Boost Converter. In: Sikander A., Acharjee D., Chanda C., Mondal P., Verma P. (eds) Energy Systems, Drives and Automations. Lecture Notes in Electrical Engineering, vol 664. Springer, Singapore. https://doi.org/10.1007/978-981-15-5089-8_58

10. Das A., Bhattacharya A., Sadhu P. (2021) Equivalent Two-Coil Model for a Four-Coil Wireless Power Transfer System. In: Kumar J., Jena P. (eds) Recent Advances in Power Electronics and Drives. Lecture Notes in Electrical Engineering, vol 707. Springer, Singapore. https://doi.org/10.1007/978-981-15-8586-9_11

11. Raman R., Das M., Sarmah P., Dutta S.K., Saikia A., Sadhu P.K. (2021) Design and Analysis of Series Resonant Inverter-Based Induction Heating Equipment Employing Power Factor Correction for Harmonic Attenuation. In: Kumar J., Jena P. (eds) Recent Advances in Power Electronics and Drives. Lecture Notes in Electrical Engineering, vol 707. Springer, Singapore. https://doi.org/10.1007/978-981-15-8586-9_44

12. Sinha R., Raman R., Bhattacharya A., Sadhu P.K. (2021) Designing a Series Active Power Filter for Mitigating Harmonics of a High Frequency Resonant Inverter. In: Kumar J., Jena P. (eds) Recent Advances in Power Electronics and Drives. Lecture Notes in Electrical Engineering, vol 707. Springer, Singapore. https://doi.org/10.1007/978-981-15-8586-9_41

13. Kumaraswamy A., Bhattacharya A., Sadhu P.K. (2021) A Multilevel Boost Converter-Fed High-Frequency Resonant Inverter for Induction Heating by Using ADC Control. In: Kumar J., Jena P. (eds) Recent Advances in Power

Modified on 23rd April 2024

Electronics and Drives. Lecture Notes in Electrical Engineering, vol 707. Springer, Singapore. https://doi.org/10.1007/978-981-15-8586-9_5

14. Szymanski J., Zurek-Mortka M., Sadhu P.K., Goswami A. (2020) Mitigation Methods of Ground Leakage Current Caused by Common-Mode in Voltage Frequency Drives. In: Sikander A., Acharjee D., Chanda C., Mondal P., Verma P. (eds) Energy Systems, Drives and Automations. Lecture Notes in Electrical Engineering, vol 664. Springer, Singapore. https://doi.org/10.1007/978-981-15-5089-8_1

15. Soham Dutta, **Pradip Kumar Sadhu**, Maddikara Jayabharata Reddy and Dusmanta Kumar Mohanta, "Role of microphasor measurement unit for decision making based on enhanced situational awareness of a modern distribution system" *Decision Making Applications in Modern Power Systems, Academic Press, Elsevier Group*, ISBN : 978-0-12-816445-7, October 2019, Chapter 7, pp 181-199.

16. Dola Sinha, **Pradip Kumar Sadhu** and Nitai Pal, "Design of an Induction Heating Unit Used in Hyperthermia Treatment" *Advances in Therapeutic Engineering, CRC Press, Taylor & Francis Group*, ISBN : 978-1-4398-7173-7, October 2012, Chapter 11, pp. 251-266.

## Patent Granted:

1. Granted patent from Government of India (No: 532009, Date of Grant: 5th April 2024, Application No : 201731040764, Dated 15 / 11 / 2017) for "Solar Induction Heating System using High Frequency Modified Half Bridge Series Resonant Inverter under ZSI Mode" in the name of inventors . Rahul Raman, Chayan Chakraborty, Palash Pal, **Pradip Kumar Sadhu**, Bidrohi Bhattacharjee and Swapan Kumar Bakshi, at Patent Office, Kolkata, Government of India.

2. Granted patent from Government of India (No: 522237, Date of Grant: 8th March 2024, Application No : 201731040664, Dated 14 / 11 / 2017) for "Solar Induction Heating System using High Frequency Hybrid Resonant Inverter under ZSI Mode" in the name of inventors . Avijit Chakraborty, Aniruddha Bhattacharjee, Pipul Roy, **Pradip Kumar Sadhu**, Niladri Das and Nitai Pal, at Patent Office, Kolkata, Government of India.

3. Granted patent from Government of India (No : 500376 Date of Grant : 17th January 2024, Application No : 201731028010, Dated 07 / 08 / 2017) for "A System of Photovoltaic-Integrated Solar Induction Heating using High Frequency Full Bridge Series Resonant Inverter Under CSI (Current Source Inverter) Mode and Solar Thermal Heating and Method for the Same" in the name of inventors Bidrohi Bhattacharjee, Riyaz Ahmed, **Pradip Kumar Sadhu**, Ankur Ganguly, Ashok Kumar Naskar and Atif Iqbal at Patent Office, Kolkata, Government of India.

4. Granted patent from Government of India (No : 476712 Date of Grant : 4th December 2023, Application No : 201731040782, Dated 15 / 11 / 2017) for "Solar Induction Heating System using High Frequency Modified Half Bridge Series Resonant Inverter under VSI Mode" in the name of inventors. Parthabrata Choudhury, Moumita Sadhu, Niladri Das, Pradip Kumar Sadhu, Suprava Chakraborty and Soumya Das, at Patent Office, Kolkata, Government of India.

5. Granted patent from Government of India (No : 470425 Date of Grant : 20th November 2023, Applied patent (Application No : 201731035228, Dated 04 / 10 / 2017) for "Solar based Hybrid Heating System and Method with Constant Load Conditions for Low-Wattage Metallic Appliances" in the name of inventors Moumita Sadhu**,** Niladri Das, Meetarani Tripathy, **Pradip Kumar Sadhu**, Nitai Pal and Utpal Goswami, at Patent Office, Kolkata, Government of India.

6. Granted patent from Government of India (No : 462113 Date of Grant : 26th October 2023 Application No : 201731040411, Dated 13 / 11 / 2017) for "Solar Induction Heating System using High Frequency Hybrid Resonant Inverter under CSI Mode" in the name of inventors Suman Kumar Laha, Md. Tabrez, Pradip Kumar Sadhu, Atif Iqbal, Ankur Ganguly and Ashok Kumar Naskar, at Patent Office, Kolkata, Government of India.

7. Granted patent from Government of India (No : 457401 Date of Grant : 9th October 2023, Application No : 201631000136, Dated 04 / 01 / 2016) for **"**A High Frequency Fly-Back Multizone Resonant Inverter with AC Input

Modified on 23rd April 2024

Source for Multi-Area Induction Heating" in the name of inventors **Prof. (Dr.) Pradip Kumar Sadhu**, Kallol Bhaumik, Avik Datta, Palash Pal, Avijit Chakraborty, Titas Kumar Nag, at Patent Office, Kolkata, Government of India.

8. Granted patent from Government of India (No : 453622, Date of Grant : 21ST September 2023, Application No : 201731041196, Dated 17 / 11 / 2017)for "Solar Modules based Heating System and Method using Mirrored Current under Impendence Matched Conditions" in the name of inventors, Apoorva, Prasenjit Das, Deepak Dash, Pradip Kumar Sadhu, Bidyadhar Subudhi and Pratik Biswas, at Patent Office, Kolkata, Government of India.

9. Granted patent from Government of India (No : 451725, Date of Grant : 14th September 2023, Application No : 201731041025, Dated 16 / 11 / 2017) for "Combined Solar and Thermal System and Method for Heating Metallic Appliances under Constant Load Conditions" in the name of inventors, Pipul Roy, Pratik Biswas, Niladri Das, Pradip Kumar Sadhu, Pritish Ghosh and Sarat Kumar Panda, at Patent Office, Kolkata, Government of India.

10. Granted patent from Government of India (No : 451268, Date of Grant : 13th September 2023, Application No : 201731035534, Dated 06 / 10 / 2017) for "Solar based Hybrid Heating System and Method with Automatic Load Impedance Matching for Low-Wattage Metallic Appliances" in the name of inventors Kundan Kumar, Anik Goswami, Pradip Kumar Sadhu, Debabrata Roy, Nital Pal and M K Singh, at Patent Office, Kolkata, Government of India.

11. Granted patent from Government of India (No : 429901, Date of Grant : 25th April 2023, Application No : 1221/KOL/2015, Dated 30 / 11 / 2015) for "An Induction Curing System For Roof Treatment With Asphalt Concrete To Cure A Crack On Roof And A Method For The Same" in the name of inventors Prof. (Dr.) Pradip Kumar Sadhu, Mr. Kaushik Neogi, Dr. Atanu Banerjee, Dr. G. Panda, Dr. N. Pal, Dr. K.C. Jana., at Patent Office, Kolkata, Government of India

12. Granted patent from Government of India (No : 423123, Date of Grant : 24th Febvruary 2023, Application No : 201731023466, Dated 04 / 07 / 2017) for "A High Frequency Virtual Reactor in Power System with Dispersed Generators to Control Fault Current and Method of Operation" in the name of inventors Alok Kumar Shrivastav, Saumen Dhara, Pradip Kumar Sadhu, Achintya Goswami, Parthabrata Choudhury and Ankur Ganguly at Patent Office, Kolkata, Government of India

13. Granted patent from Government of India (No : 413988, Date of Grant : 8th December 2022,Application Application No : 25/KOL/2015, dated 07 / 01 / 2015) for "A High Frequency Hybrid Resonant Inverter With AC Input Source" in the name of inventors Prof. (Dr.) **Pradip Kumar Sadhu,** Ananya Bhattacharya , Dr. Vivekananda Mukherjee and Dr. Nitai Pal, at Patent Office, Kolkata, Government of India.

14. Granted patent from Government of India (No : 409799, Date of Grant : 25th October 2022, Application No : 201731040937, Dated 16 / 11 / 2017) for "A Photovoltaic Integrated System and Method for Heating Metallic Appliances under Variable Load Conditions" in the name of inventors, Anand Kumar, Shivprakash Bihari, Pradip Kumar Sadhu, Debabrata Roy, Tapas Roy and Arijit Chakrabarti, at Patent Office, Kolkata, Government of India.

15. Granted patent from Government of India (No : 409428, Date of Grant : 20th October 2022, Application No : 201731025244, Dated 17 / 07 / 2017) for "A System of Photovoltaic Integrated Solar Induction Heating and Solar Thermal Heating using High Frequency Full Bridge Series Resonant Inverter Under VSI (Voltage Source Inverter) Mode and Method for the Same" in the name of inventors Soumya Das, **Pradip Kumar Sadhu**, Palash Pal, Meetarani Tripathy, Titas Kumar Nag and Saunak Bhattacharya at Patent Office, Kolkata, Government of India.

16. Granted patent from Government of India (No : 409320, Date of Grant : 19th October 2022, Application No : 1470/KOL/2013, Dated 31 / 12 / 2013) for "Contactless Emergency Lighting and Communication System with Axial Portability for Underground Mines" in the name of inventors S. Vamsi Krishna, Nitai Pal and **Pradip Kumar Sadhu**, at Patent Office, Kolkata, Government of India.

17. Granted patent from Government of India (No : 405729, Date of Grant : 5th September 2022, Application No : 201731033087, Dated 19 / 09 / 2017) for "A System of Photovoltaic-Integrated Solar Induction Heating and Solar Thermal Heating using High Frequency Full Bridge Series Resonant Inverter Under ZSI (Z-Impedance Source Inverter) Mode for Load Impedance Matching and Method for the Same" in the name of inventors Arijit Chakrabarti,

Modified on 23rd April 2024

Subhajit Basu, **Pradip Kumar Sadhu**, Palash Pal, Sudipta Chakrabarty and Tamalika Panda at Patent Office, Kolkata, Government of India.

18. Granted patent from Government of India (No : 405442, Date of Grant : 31st August 2022, Application No : 445/KOL/2015, Dated 30 / 04 / 2015) for "A Pacemaker Battery Recharger for Enhancing the Service Life" in the name of inventors Prof. (Dr.) **Pradip Kumar Sadhu**, Animesh Halder, Dr. Nitai Pal, Prof. (Dr.) Ankur Ganguly, Dr. Prabir Bhowmik and Moumita Sadhu, at Patent Office, Kolkata, Government of India.

19. Granted patent from Government of India (No : 403045, Date of Grant : 4th August 2022, Application No : 1052/KOL/2014, dated 16 / 10 / 2014) for **"**A System for Induction Heated Sterilization of Surgical Instruments and A Method for the Same" in the name of inventors Prof. (Dr.) **Pradip Kumar Sadhu,** Agamani Chakraborty, Atanu Bandyopadhyay and Dr. Nitai Pal, at Patent Office, Kolkata, Government of India.

20. Granted patent from Government of India (No : 400850, Date of Grant : 8th July 2022, Application No : 201731025438, Dated 18 / 07 / 2017) for "A Hybrid Particulate Matter (PM) Emission Control Device Having Electrostatic Precipitator and High Frequency Induction Heating Coil for Diesel Engine and Method for the Same" in the name of inventors Mr. Kaushik Sit, **Prof. (Dr.) Pradip Kumar Sadhu**, Dr. Arijit Baral, Kallol Bhaumik, Moumita Chakraborty, Sudipta Chakraborty and Nitai Pal at Patent Office, Kolkata, Government of India.

21. Granted patent from Government of India (No : 399304, Date of Grant : 17th June 2022, Application No : 201731040658, Dated 14 / 11 / 2017 ) for "Solar Induction Heating System using High Frequency Hybrid Resonant Inverter under VSI Mode" in the name of inventors Paromita Sadhu, Achintya Goswami, **Pradip Kumar Sadhu**, Sarat Kumar Panda, Avik Datta and Ananyo Bhattacharya, at Patent Office, Kolkata, Government of India.

22. Granted patent from Government of India (No : 395435, Date of Grant : 26th April 2022, Application No : 682/KOL/2015, Dated 19 / 06 / 2015) for **"**Photovoltaic-Thermoelectric-Photovoltaic (Pv-Te-Pv) Multilayer Device for Enhancing Solar Electric Power Generation with Reduced Area Requirement" in the name of inventors Suprava Chakraborty, **Prof. (Dr.) Pradip Kumar Sadhu**, Utpal Goswami, at Patent Office, Kolkata, Government of India.

23. Granted patent from Government of India (No : 393014, Date of Grant : 25th March 2022, APPLICATION NO : 1081/KOL/2014, DATED 24 / 10 / 2014) for **"**A High Frequency Full Bridge Series Resonant Inverter with AC Input Source" in the name of inventors Prof. (Dr.) **Pradip Kumar Sadhu,** Debabrata Roy, Dr. Nitai Pal and Arijit Baral.

24. Granted patent from Government of India (No : 359838, Date of Grant : 26th February 2021, APPLICATION NO : 1240/KOL/2012, DATED 30 / 10 / 2012) for "Emission Control Device for Diesel Engine to Reduce the Particulate Matters in Exhaust Gases and the Method for the Same" in the name of inventors **Pradip K. Sadhu**, Nitai Pal and Atanu Bandyopadhyay.

25. Granted patent from Government of India (No : 359490, Date of Grant : 25th February 2021, Application No : 201731040675, Dated 14 / 11 / 2017) for "Solar Induction Heating System using High Frequency Modified Half Bridge Series Resonant Inverter under CSI Mode" in the name of inventors Soham Dutta, Tamalika Panda, **Pradip Kumar Sadhu**, Paromita Sadhu, Palash Pal and Chayan Chakraborty.

26. Granted patent from Government of India (No : 341969, Date of Grant : 20th July 2020, APPLICATION NO : 1321/KOL/2014, DATED 17 / 12 / 2014) for "A High Frequency Modified Half Bridge Resonant Inverter With AC Input Source" in the name of inventors **Prof. (Dr.) Pradip Kumar Sadhu,** Palash Pal, Dr. Nitai Pal and Arijit Baral.

27. Granted patent from Government of India (No : 244527, Date of Grant : 09th Decenber 2010) for "An improved high frequency inverter circuit arrangement" in the name of inventors **Pradip Kumar Sadhu**, Rupendranath Chakrabarti and S. P. Chowdhury.

28. Granted patent from Government of India (No : 216361, Date of Grant : 12th March, 2008) for "A cooking apparatus using high frequency induction heating" in the name of inventors **Pradip Kumar Sadhu**, Rupendranath Chakrabarti and S. P. Chowdhury.

Modified on 23rd April 2024

29. Granted patent from Government of India (No : 205322, Date of Grant : 30th March, 2007) for "An induction heating device for heating fluids in a non-metallic vessel or pipeline" in the name of inventors **Pradip Kumar Sadhu**, Rupendranath Chakrabarti and S. P. Chowdhury.

30. Granted patent from Government of India (No : 156681, Date of Grant : 04th May, 1982) for "A burglar proof electric lock cum alarm device" in the name of inventors **Pradip Kumar Sadhu**.

## Patent Applied:

1. Applied patent (Application No : 202231032196 Dated 06 / 06 / 2022) for "A hybrid renewable energy driven bidirectional wireless charging system for dynamic and static electric vehicle" in the name of inventors, Pradip Kumar Sadhu, Anik Goswami, Sonal Mishra, Nitai Pal, Arijit Baral, Anirban Ghoshal and Kartick Chandra Jana, at Patent Office, Kolkata, Government of India.

2. Applied patent (Application No : 201731034927, Dated 03 / 10 / 2017) for "Solar based Hybrid Heating System and Method with Variable Load Conditions for Low-Wattage Metallic Appliances" in the name of inventors Tapas Roy, Swapan Kumar Bakshi, **Pradip Kumar Sadhu**, Suman Kumar Laha, Avijit Chakraborty and Abhijit Dasgupta at Patent Office, Kolkata, Government of India.

## Ph. D. Thesis Supervised:

| *Sl. No.* | *Name of the Research Scholar* | *Institution* | *Title of the Thesis* | *Year of Award* |
|---|---|---|---|---|
| 1) | Dipak Kumar Dash (2015DR1099) | IIT (ISM), Dhanbad | Development of Active Power Filter Algorithm for A Grid Connected PV System | 2024 |
| 2) | Apoorva (16DR000215) | IIT (ISM), Dhanbad | Islanding Detection Approaches In Active Distribution Network | 2024 |
| 3) | Arijit Chakrabarti (17DP000159) | IIT (ISM), Dhanbad | Analysis of various intelligent control strategies and monitoring for induction heating systems | 2024 |
| 4) | Suman Kumar Laha (17DP000157) | IIT (ISM), Dhanbad | Performance Analysis and Application of Concentrated Photovoltaic Systems | 2023 |
| 5) | Rahul Raman (17DR000291) | IIT (ISM), Dhanbad | Investigation and Analysis of Cost Effective High Frequency Inverter for Industrial Applications | 2023 |
| 6) | Pritish Kumar Ghosh (2015DR1061) | IIT (ISM), Dhanbad | Design Optimization and Performance Analysis of Induction Motors | 2023 |
| 7) | Tapas Roy (17DP000156) | IIT (ISM), Dhanbad | Performance Analysis of Improved Step-Up Switched Capacitor Multilevel Inverters | 2023 |
| 8) | Saumen Dhara (2015DR1187) | IIT (ISM), Dhanbad | Investigation And Analysis of Different Techniques for Power Quality Improvement | 2023 |
| 9) | Mr Debayan Sarkar (17DR000423) | IIT (ISM), Dhanbad | Maximum Power Enhancement Approach from Building Integrated Photovoltaic Systems | 2023 |
| 10) | Anik Goswami (18DR0026) | IIT (ISM), Dhanbad | Investigation, Analysis and Life cycle Assessment of Economically Sustainable Solar Devices and Technologies | 2023 |

Modified on 23rd April 2024

| | | | | |
|---|---|---|---|---|
| 11) | Kallol Bhaumik (2015DR1190) | IIT (ISM), Dhanbad | Selection, Analysis And Implementation Of High Frequency Inverter For Multi-Zone Induction Heating System | 2023 |
| 12) | MD Tabrez (2015DR1154) | IIT (ISM), Dhanbad | Three Phase to Seven Phase Power Conversion Techniques for High Power Applications | 2022 |
| 13) | Shiv Prakash Bihari (2016DR1039) | IIT (ISM), Dhanbad | Performance Enhancement of Grid Integrated Hybrid Renewable Energy Systems | 2022 |
| 14) | Ahmed Riyaz (2014DR1131) | IIT (ISM), Dhanbad | Harmonic Reduction of Grid Integrated Multi-Level Inverters | 2022 |
| 15) | Anand Kumar (2016DR0084) | IIT (ISM), Dhanbad | Development of New Control Technique for High Frequency Power Inverter used in Induction Heater | 2022 |
| 16) | Soham Dutta 16DR000169 | IIT (ISM), Dhanbad | Micro Phasor Measurement Unit Based Islanding Detection Approach in Microgrid | 2021 |
| 17) | Avijit Chakraborty | IIT (ISM), Dhanbad | Analysis And Investigation of Different Control Strategies for Low Power Induction Heating Systems | 2021 |
| 18) | Utpal Goswami | IIT (ISM), Dhanbad | Performance Improvement of Super Critical Captive Power Plant under Islanding Mode. | 2019 |
| 19) | Alok Kumar Shrivastav | IIT (ISM), Dhanbad | Power Quality Estimation and Disturbance Mitigation of Power Systems. | 2019 |
| 20) | Meetarani Tripathy | IIT (ISM), Dhanbad | Sustainable development of building integrated photovoltaic system with suitable PV models and configurations. | 2018 |
| 21) | Prabhat Chandra Ghosh | IIT (ISM), Dhanbad | New Generation High Frequency Converter and Transformer for Maximizing Efficiency in Contact-Less Power Transfer System | 2018 |
| 22) | Ananyo Bhattacharya | IIT (ISM), Dhanbad | Studies of High Frequency Resonant Inverter in Induction Heating Appliances. | 2017 |
| 23) | Debabrata Roy | IIT (ISM), Dhanbad | Control Strategies of High Frequency Resonant Inverter for Induction Heater. | 2017 |
| 24) | Soumya Das | IIT (ISM), Dhanbad | Efficient Control Strategies on Solar Photovoltaic Power Generation and Utilization. | 2017 |
| 25) | Palash Pal | IIT (ISM), Dhanbad | Design, Simulation and Implementation of Contact-Less Induction Heating System using High Frequency Inverter. | 2017 |
| 26) | Suprava Chakraborty | IIT (ISM), Dhanbad | Techno-Economic Feasibility of Solar Photo-Voltaic Technologies in India | 2016 |

Modified on 23rd April 2024

| | | | | |
|---|---|---|---|---|
| 27) | Atanu Bandyopadhyay | IIT (ISM), Dhanbad | Some Studies on High Frequency Resonant Inverter based Induction Heater and the Corresponding Choice of Secondary Metallic Objects. | 2012 |
| 28) | Dola Sinha | IIT (ISM), Dhanbad | Some Studies on Energy Efficient Induction Heater. | 2012 |
| 29) | Narendra Nath Jana | Jadavpur University | Control Strategy of Induction Heating Appliances using High Frequency Mirror Inverter. | 2007 |
| 30) | Nitai Pal | Jadavpur University | Radio-Frequency Mirror Inverter for Induction Cooker and the Corresponding Choice of Pan Material. | 2006 |
| 31) | Dusmanta Kumar Mohanta | Jadavpur University | An Intelligent Maintenance Scheduling of Captive Power Plant for Quality Power. | 2004 |
| 32) | Swaroop R. | Jadavpur University | Development of a P.C. Based Interlocking System and Some of Its Possible Applications. | 2004 |
| 33) | Mrs. Nutan Lata Nath | Jadavpur University | A Study on H.F. Mirror Inverter with Choice of Pan Material for Induction Heated Domestic Cooking. | 2003 |

Modified on 23rd April 2024