LIST OF PUBLICATIONS

1. Dedhiya N., Parmar, V., Jogunuri, S. & Vyas, D. K. (2024). Short Term Solar Radiation Forecasting Using Machine Learning Models for Sparse Data. 2024 IEEE International Conference on Smart Power Control and Renewable Energy (ICSPCRE): 1-5.
2. Kannadhasan, S., Jogunuri, S., Josh,F., Jency Joseph, T. J., Meenal, R. & Mohan Das, R. (2024). Forecasting hourly short-term solar photovoltaic power using machine learning models. International Journal of Power Electronics and Drive Systems (IJPEDS), 15 (4), 2553-2569. SSN: 2088-8694, DOI: 10.11591/ijpeds.v15.i4.pp2553-2569

1. Bal, J., D. K. Vyas, Sravankumar Jogunuri & F.G. Sayyad. (2024). Mathematical Modelling of Solar Tunnel Dried Ginger (Zingiber officinale L.) Slices. *Journal of Agricultural Engineering (India)*, 61(2), 299-310. https://doi.org/10.52151/jae2024612.1844.
2. Jogunuri, S., FT, J., Stonier, A.A., Peter, G., Jayaraj, J. & Ganji, V. (2024). Random forest machine learning algorithm based seasonal multi-step ahead short-term solar photovoltaic power output forecasting. *IET Renewable Power Generation.* 1–16.
3. S. Jogunuri & F. T. Josh. (2022). Deep Neural Network based Forecasting of Short-Term Solar Photovoltaic Power output. *2nd International* Conference *on Intelligent Technologies (CONIT)*, Hubli, India, pp. 1-5, doi: 10.1109/CONIT55038.2022.9847769.
4. Mangroliya, M., Bhoomi, R., Jogunuri, J. & Vyas, D. K. (2022). Estimation of Weibull parameters by different methods for assessment of wind energy potential. *2022 International Conference on Intelligent Controller and Computing for Smart Power (ICICCSP)*, Hyderabad, India, 2022, pp. 1-6, doi: 10.1109/ICICCSP53532.2022.9862454.
5. Chavda, J. J. & Vyas, D. K. (2022). Biomass combustor based drying of beetroot. *Agricultural Engineering Today*, 46 (1): 8-16.
6. Chavda, J.J., Vyas, D. K., Kumar N. & Seth, N. (2022). Effect of drying temperature and slice thickness on characteristics of beetroot (Beta vulgaris L.). *International Journal of Agricultural Sciences*, 14 (12):12068-12074.
7. Vyas, D. K., Seth, N. & Chavda, J. J. (2021). Performance of biomass combustor based drying system for ginger drying. *Agricultural Engineering Today*, 45 (1): 19-25.
8. Vyas, D. K., Sravankumar, J. & Chavda, J. J. (2021). Performance evaluation of throat type updraft biomass gasifier using different biomass fuels. *Agricultural Engineering Today*, 45 (3): 6-12.
9. Dudhat, B.L. & Vyas, D.K. (2021). Economics of solar pump irrigation system in Dahod district, Gujarat-a pilot study. *International Journal of Agriculture Sciences*, 13(5): 10769-10771.
10. Sayyad, F.G., Akbari, S.H., Vyas, D.K. & Trivedi, M.M. (2021). Effect of pretreatment on dimensional properties of water chestnut. *Biological Forum – An International Journal*, 13(3b): 94-102.

11. Jethva, K. R., Sutar, R. F., Kumar, N. & Vyas, D.K. (2021). Effect of whey protein on sun dried protein enriched kesar mango leather. *Journal of Pharmacognosy and Phytochemistry*, 10(2): 824-830.
12. S. Jogunuri & F.T. Josh. (2020). Artificial Intelligence Methods for Solar Forecasting for optimum Sizing of PV systems: A Review (Full length paper), *Res. J. Chem. Environ*, 24, 174–180. https://worldresearchersassociations.com/RJCESpecial(I)2020/32.pdf. (Scopus Indexed)
13. Jogunuri, S. & F.T. Josh. (2019). Artificial Intelligence methods for solar forecasting for optimum sizing of PV systems: A Review-Abstract. *In 2019 3rd International Conference on Renewable Energy and Sustainable Environment (RESE)* (pp. 114). ISBN: 978-93-5235-155-8 (Scopus Indexed).
14. Jogunuri, S., Mehra, V. & Vyas, D.K. (2019). Reconfiguration of solar photovoltaic panels for water pumping applications. *In 2019 International Conference on Smart Systems and Innovative Technology (ICSSIT)* (pp. 717-721). IEEE. ISBN: 978-1-7281-2118-5 (Scopus Indexed).
15. Gadariya, K., Patel, M. & Jogunuri, S.K.(2018). Efficacy of solar hybrid dryers in the reduction of post-harvest losses. *In 2018 National symposium on "Doubling Farmers Income Through Technological Interventions" at 32nd ISAE National Convention.*
16. Jethva K.R., Vyas D. K., Sutar, R.F., Kumar N. & Sayyad F.G. (2018). Bio-fuels Algae: An alternative Renewable Energy Source (A Review Paper). *International Journal of Agricultural Science and Research*, 8 (2):101-108. (NAAS Rating: 4.13).
17. Vyas, D. K., Kapdi, S.S. & Gaur, M. L. (2018). Design and Development of Producer Gas-Based Heat Exchanger for Drying Application. *Energy and Environment, Water Science and Technology Library 80*. V.P. Singh et al. (eds.), https://doi.org/10.1007/978-981-10-5798-4_21.
18. Chauhan A.D., Seth, N, Vyas D. K. & Kumar N. (2017). A review of different drying techniques of freshly harvested maize cobs. *International Journal of Agricultural Science and Research (IJASR)*, Vol. 7 (3), 173-180, ISSN(P):2250-0057; ISSN (E): 2321-0087.
19. Jogunuri, S., Kumar, R. & Kumar, D. (2017). Sizing an off-grid photovoltaic system (A case study). *In 2017 International Conference on Energy, Communication, Data Analytics and Soft Computing (ICECDS)* (pp. 2618-2622). IEEE. DOI:https://doi.org/10.1109/ICECDS.2017.8389927 (Scopus Indexed)
20. Jogunuri, S. K., Kumar, N., Sayyad, F. G., Pinakin, V., & Patel, V. (2017). Performance Evaluation of Multi-Purpose Mixed-Mode Cabinet Solar Food Processor (Mcsfp). *Current Agriculture Research Journal*, 5(3), 404-413. DOI:http://dx.doi.org/10.12944/CARJ.5.3.21 (NAAS Rating: 4.36).
21. Vyas, D.K., Kapdi, S.S., Dudhat, B.L. & Akbari, S.H. (2017). Economic feasibility of updraft gasifier based combustor for hot air generation. *Trends in Biosciences*, 10 (5): 1286-1290.
22. Kumar, D., Manjeet, P., Khodifad, B.C. and Vyas, D.K. (2016). Energy Audit of lighting systems in hostel. *Advances in Life Sciences*, 5 (17):7058-7060.

23. Vyas D. K., Kapdi, S.S., Bhanderi, H.D. & Chavda, J. J. (2016). Development of multifuel biomass based combustor for thermal applications. International Journal of Agricultural Statistical Sciences, 12 (1):215-222. (Web of Science- ESCI and Scopus Indexed)
24. Manjeet, P., Suwarnker,R., Vyas, D.K., Pargi, S.J. & Khodifad, B.C. (2016). Combined tillage tools: A review. Current Agriculture Research Journal, 4 (2):179-185.
25. Khodifad, B.C., Kumar, N., Vyas D. K., Seth, N. & Prem, M. (2016) Review paper: Pre and post harvest practices, processing and value addition of custard apple. *International Journal of Food Ferment Technology*, 6 (2):1-13.
26. Kumar, D., Tiwari, M. K. & Vyas, D.K. (2016). Canal based irrigation scheduling and conjunctive water use planning for optimal cropping pattern- a review. *International Journal of Agriculture Sciences*, 8 (58):3240-3244.
27. Vyas, D.K., Kapdi, S.S., Swarnkar, R. & Seth, N. (2015). Development and evaluation of updraft biomass gasifier for thermal application. *Elixir Thermal Engg.*, 81 (2015) 31509-31513, ISSN: 2229-712X.
28. Vyas, D.K., Kapdi, S.S., Bhanderi, H.D. & Varia, S.V. (2015). Evaluation of biomass based combustor for hot air generation using maize cobs. *International Journal of Agricultural Engineering*, Vol. 8 (1):101-106.
29. Vyas, D.K., Sayyad, F.G., Khardiwar, M.S. & Kumar, S. (2015). Physicochemical Properties of Briquettes from Different Feed Stock. *Current World Environment*, Vol. 10(1): 263-269.
30. Vyas, D.K., Dipak, T., Mendpara, V. & Akbari, S.H. (2014). Design and Development of Inverted Down Draft Gasifier for Cooking Purpose. Scholars Journal of Engineering and Technology (SJET), *Sch. J. Eng. Tech.*, 2014; 2(2A):113-122 ISSN 2347-9523.
31. Singh, R.N., Sharma, S. & Vyas, D.K. (2014). Studies on effect of long term storage of Jatropha oil, blends of Jatropha oil with diesel and bio-diesel on quality. *Nature & Environment*. Vol. 19 (2): 158-163.
32. Vyas, D.K., Sarsavadia, P.N., Akbari, S.H. & Patel, G.R. (2014). Performance Prediction of a Downdraft Gasifier using Equilibrium Modeling for Cotton Stalk. *International Journal of Green and Herbal Chemistry*, Vol.3, No.2, 474-485.
33. Srivasatava, N.S.L. & Vyas, D.K. (2008). Efficient management of crop and agro-processing residues for animal feed and energy through briquetting. *Paper presented by Dr. N.S.L. Srivasatava in Theme Session in 42nd ISAE Convention & Symposium*, February 1-3, 2008 at Central Institute of Agricultural Engineering, Bhopal.
34. Vyas, D.K. & Singh, R.N. (2007). Feasibility study of Jatropha seed husk as an open core gasifier feedstock. *Renewable Energy*, Vol.32 (3):512-517.
35. Singh, R.N., Vyas, D.K., Srivastava, N.S.L. & Narra, M. (2008). SPRERI experience on holistic approach to utilize all parts of Jatropha Curcas fruit for energy. *Renewable Energy*, Vol. 33, pp. 1868-1873.
36. Bhave, A.G., Vyas, D.K. & Patel, J.B. (2008). A wet packed bed scrubber based producer gas cooling cleaning system. *Renewable Energy*, Vol. 33, pp. 1716-1720.

37. Singh, R.N., Sharma, A.M., Jena, U., Bhave, A.G. & Vyas, D.K. (2007). Gasifier system for cooking. *Renewable Energy "Akshay Urja"*, Ministry of New and Renewable Energy, Government of India, Vol. 1 (1):19-20.
38. Pathak, B. S., KaPatel, D. V. Bhoi, P. R., Sharma, A.M. & Vyas, D. K. (2007). Design and Development of sand filter for upgrading producer gas to I. C. engine quality fuel. *International Energy Journal*. RERIC, Bangkok. Vol. 8(1) 2007.
39. Vyas, D. K. & Singh, R. N. (2007). Feasibility study of Jatropha seed husk as an open core gasifier feedstock. *Renewable Energy*, 32(3), 512-517.
40. Srivastava, N.S.L. & Vyas, D.K. (2007). Biomass Briquetting in India for Feed, Fodder and Energy. *Proceedings of 3rd International Conference on Solar Radiation and Day Lighting (SOLARIS 2007)* February 7 – 9, 2007, New Delhi, Vol. I, pp. 575 – 582.
41. Singh, R.N., Sharma, A.M., Jena, U., Bhave, A.G. & Vyas, D.K. (2006). Case study of Open Core Down Draft Gasifier System for Cooking Applications. *Journal of Agricultural Engineering Today*, Vol. 30(3):26-32.
42. Joshi, D.C., Sutar, R.F. & Vyas, D.K. (2005). Development of a seed-extracting machine for brinjal fruits. *Journal of Agricultural Engineering*. Vol. 42 (4): 57-59.
43. Rank, H.D., Chaghada, R.H., Saradhara, V.K., Parmar, H.V. & Vyas, D.K. (2003). Optimal irrigation scheduling for summer groundnut crop under hot arid climate. *International Seminar on Downsizing Technology for Rural Development (ISDTRD-2003).* October 8-9, 2003, Regional Research Laboratory, Bhuvneshwar, India, pp. 254-257.