

Narayan Lal Panwar

List of Publications by Year in descending order

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Version: 2024-02-01

120
papers

6,402
citations

147801

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69250

77
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126
all docs

126
docs citations

126
times ranked

7579
citing authors

| # | ARTICLE | IF | CITATIONS |
|----|--|-----|-----------|
| 1 | Pyrolysis and kinetic behaviour of black gram straw using thermogravimetric analysis. Energy Sources, Part A: Recovery, Utilization and Environmental Effects, 2023, 45, 2371-2384. | 2.3 | 16 |
| 2 | Thermal degradation of coconut husk waste biomass under non-isothermal condition. Biomass Conversion and Biorefinery, 2023, 13, 7613-7622. | 4.6 | 8 |
| 3 | Kinetic analysis and thermal degradation study on wheat straw and its biochar from vacuum pyrolysis under non-isothermal condition. Biomass Conversion and Biorefinery, 2023, 13, 7547-7559. | 4.6 | 25 |
| 4 | Waste heat recovery from improved cookstove through thermoelectric generator. International Journal of Ambient Energy, 2022, 43, 466-470. | 2.5 | 3 |
| 5 | Development of biomass-based hydrothermal liquefaction system for essential oil extraction. International Journal of Ambient Energy, 2022, 43, 952-957. | 2.5 | 0 |
| 6 | Influence of activation conditions on the physicochemical properties of activated biochar: a review. Biomass Conversion and Biorefinery, 2022, 12, 925-947. | 4.6 | 93 |
| 7 | Experimental investigation on biochar from groundnut shell in a continuous production system. Biomass Conversion and Biorefinery, 2022, 12, 1093-1103. | 4.6 | 19 |
| 8 | Design and development of solar energy powered maize milling machine. International Journal of Ambient Energy, 2022, 43, 1671-1676. | 2.5 | 8 |
| 9 | Strategic overview of management of future solar photovoltaic panel waste generation in the Indian context. Waste Management and Research, 2022, 40, 504-518. | 3.9 | 39 |
| 10 | Experimental investigation on the production of bio-oil from maize straw at a pilot scale. Environmental Engineering Research, 2022, 27, 200592-0. | 2.5 | 2 |
| 11 | Analysis of biochar from carbonisation of wheat straw using continuous auger reactor. International Journal of Environment and Sustainable Development, 2022, 21, 218. | 0.3 | 0 |
| 12 | Biomass gasification for climate change mitigation and policy framework in India: A review. Bioresource Technology Reports, 2022, 17, 100892. | 2.7 | 42 |
| 13 | Dust impact on concentrated solar power: A review. Environmental Engineering Research, 2022, 27, 210345-0. | 2.5 | 9 |
| 14 | Kinetic study on pyrolysis of mustard stalk using thermogravimetric analysis. Bioresource Technology Reports, 2022, 17, 100942. | 2.7 | 20 |
| 15 | Environmental assessment, microstructural behaviour, stress-strain characteristics, and effect of exposure to extreme temperature on sustainable concrete made with dolomite mining residues. Environmental Science and Pollution Research, 2022, , 1. | 5.3 | 0 |
| 16 | A comparative study on morphology, composition, kinetics, thermal behaviour and thermodynamic parameters of Prosopis Juliflora and its biochar derived from vacuum pyrolysis. Bioresource Technology Reports, 2022, 18, 101053. | 2.7 | 5 |
| 17 | Outline of solar energy in India: advancements, policies, barriers, socio-economic aspects and impacts of COVID on solar industries. International Journal of Ambient Energy, 2022, 43, 7630-7642. | 2.5 | 11 |
| 18 | Thermal performance and heat storage behaviour of three pots improved cookstove. Energy Nexus, 2022, 6, 100074. | 7.7 | 3 |

| # | ARTICLE | IF | CITATIONS |
|----|---|-----|-----------|
| 19 | A comprehensive review on optimization of anaerobic digestion technologies for lignocellulosic biomass available in India. <i>Biomass and Bioenergy</i> , 2022, 161, 106479. | 5.7 | 28 |
| 20 | Influences of a novel cylindrical solar dryer on farmer's income and its impact on environment. <i>Environmental Science and Pollution Research</i> , 2022, 29, 78887-78900. | 5.3 | 2 |
| 21 | Experimental investigation on biomass fired dryer for drying of agricultural products. <i>International Journal of Ambient Energy</i> , 2021, 42, 1765-1768. | 2.5 | 4 |
| 22 | A comprehensive review of different types of solar photovoltaic cells and their applications. <i>International Journal of Ambient Energy</i> , 2021, 42, 1200-1217. | 2.5 | 56 |
| 23 | Bio-oil production from agricultural crop residues - a review. <i>International Journal of Environment and Sustainable Development</i> , 2021, 20, 301. | 0.3 | 0 |
| 24 | Design improvement and experimental study on shell and tube condenser for bio-oil recovery from fast pyrolysis of wheat straw biomass. <i>SN Applied Sciences</i> , 2021, 3, 1. | 2.9 | 1 |
| 25 | Bio-oil production from agricultural crop residues - a review. <i>International Journal of Environment and Sustainable Development</i> , 2021, 20, 301. | 0.3 | 0 |
| 26 | A Comprehensive Review on the Performance of Structural Lightweight Aggregate Concrete for Sustainable Construction. <i>Construction Materials</i> , 2021, 1, 39-62. | 0.9 | 19 |
| 27 | Influence of granite waste on mechanical and durability properties of fly ash-based geopolymer concrete. <i>Environment, Development and Sustainability</i> , 2021, 23, 17810-17834. | 5.0 | 11 |
| 28 | Current status, opportunities and challenges in anaerobic digestion in Indian context: An overview. <i>Bioresource Technology Reports</i> , 2021, 16, 100830. | 2.7 | 7 |
| 29 | An overview of recent development in bio-oil upgrading and separation techniques. <i>Environmental Engineering Research</i> , 2021, 26, 200382-0. | 2.5 | 34 |
| 30 | Energetic and exergetic analysis of solar photovoltaic/thermoelectric generator hybrid system. <i>International Journal of Agricultural Sciences</i> , 2021, 17, 256-261. | 0.0 | 0 |
| 31 | Development of an analytical model for cost-based optimization of KVIC biogas plant dimensions. <i>Bioresource Technology Reports</i> , 2021, 16, 100879. | 2.7 | 0 |
| 32 | Thermogravimetric studies on co-pyrolysis of raw/torrefied biomass and coal blends. <i>Waste Management and Research</i> , 2020, 38, 1259-1268. | 3.9 | 12 |
| 33 | Comprehensive review on pyrolytic oil production, upgrading and its utilization. <i>Journal of Material Cycles and Waste Management</i> , 2020, 22, 1712-1722. | 3.0 | 48 |
| 34 | Experimental investigation on non-oxidative biomass torrefaction system. <i>Energy Sources, Part A: Recovery, Utilization and Environmental Effects</i> , 2020, , 1-12. | 2.3 | 3 |
| 35 | Experimental Investigation on Farmer-Friendly Hybrid Dryer for Indoor Drying of Mushroom. <i>Springer Proceedings in Energy</i> , 2020, , 81-92. | 0.3 | 4 |
| 36 | Health Problems Associated with Existing Indoor Air Quality in Tribal Household Kitchens. <i>International Journal of Current Microbiology and Applied Sciences</i> , 2020, 9, 809-816. | 0.1 | 0 |

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|----|--|------|-----------|
| 37 | Electrical Analysis of Solar Photovoltaic-Thermoelectric Generator Hybrid System. International Journal of Current Microbiology and Applied Sciences, 2020, 9, 2925-2932. | 0.1 | 0 |
| 38 | Experimental Analysis of Solar Photovoltaic System under Partial Shading. International Journal of Current Microbiology and Applied Sciences, 2020, 9, 1623-1630. | 0.1 | 3 |
| 39 | Comprehensive review on production and utilization of biochar. SN Applied Sciences, 2019, 1, 1. | 2.9 | 123 |
| 40 | Experimental investigation on energy-efficient twin-mode biomass improved cookstove. SN Applied Sciences, 2019, 1, 1. | 2.9 | 2 |
| 41 | Experimental investigation and thermal modelling of box and parabolic type solar cookers for temperature mapping. Journal of Thermal Analysis and Calorimetry, 2019, 136, 1347-1364. | 3.6 | 16 |
| 42 | Solar map of India under clear sky conditions. International Journal of Sustainable Energy, 2019, 38, 415-446. | 2.4 | 12 |
| 43 | Generation of solar irradiation maps for various applications under Algerian clear-sky conditions. International Journal of Ambient Energy, 2018, 39, 243-256. | 2.5 | 5 |
| 44 | Energetic and Exergetic Assessment of 50 W Solar PV System. Applied Solar Energy (English) Tj ETQq0 0 0 rgBT /Overlock 10 ₂ Tf 50 462 | 1.6 | 2 |
| 45 | Generating Temperature Maps of a Solar Receiver for a Domestic Parabolic Concentrator for Cooking Purposes Under Algerian Environment. Green Energy and Technology, 2018, , 231-257. | 0.6 | 0 |
| 46 | Biogas in India: Potential and Integration into Present Energy Systems. International Journal of Current Microbiology and Applied Sciences, 2018, 7, 2175-2186. | 0.1 | 4 |
| 47 | Improved biomass cookstoves for sustainable development: A review. Renewable and Sustainable Energy Reviews, 2017, 73, 672-687. | 16.4 | 90 |
| 48 | Recent advancement in biogas enrichment and its applications. Renewable and Sustainable Energy Reviews, 2017, 73, 892-903. | 16.4 | 259 |
| 49 | Energetic and Exergetic Evaluation of Biomass Fired Water Heating System. Trends in Renewable Energy, 2017, , . | 0.3 | 0 |
| 50 | Experimental Investigation of Eco Friendly Biomass Fired Water Heating System. Waste and Biomass Valorization, 2016, 7, 1491-1494. | 3.4 | 4 |
| 51 | Performance Evaluation of Improved Carbonized Cashew Nut Shell Based Cookstove. Waste and Biomass Valorization, 2016, 7, 1221-1225. | 3.4 | 12 |
| 52 | Energy and exergy analysis of passive solar distillation systems. International Journal of Low-Carbon Technologies, 2016, 11, 211-221. | 2.6 | 68 |
| 53 | Experimental study of drying techniques in retention of nutrients in aonla. International Journal of Postharvest Technology and Innovation, 2015, 5, 81. | 0.1 | 2 |
| 54 | Thermodynamic performance evaluation of solar and other thermal power generation systems: A review. Renewable and Sustainable Energy Reviews, 2015, 50, 567-582. | 16.4 | 64 |

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| 55 | Energetic and exergetic evaluation of solar box cooker in Algerian climatic conditions. International Journal of Exergy, 2015, 16, 337. | 0.4 | 7 |
| 56 | Thermal Modelling and Experimental Validation of a Walk-in Type Solar Tunnel Dryer for Drying Fenugreek Leaves (Methi) in Indian Climate. Environmental Modeling and Assessment, 2015, 20, 211-223. | 2.2 | 4 |
| 57 | Environment friendly biomass gasifier cookstove for community cooking. Environmental Technology (United Kingdom), 2015, 36, 2308-2311. | 2.2 | 8 |
| 58 | Experimental investigation on energy and exergy analysis of coriander (Coriandrum sativum L.) leaves drying in natural convection solar dryer. Applied Solar Energy (English Translation of Geliotekhnika), 2014, 50, 133-137. | 1.6 | 22 |
| 59 | Energetic and exergetic performance evaluation of improved biomass cookstoves. International Journal of Exergy, 2014, 14, 430. | 0.4 | 8 |
| 60 | Energetic and exergetic analysis of walk-in type solar tunnel dryer for Kasuri Methi (Fenugreek) leaves drying. International Journal of Exergy, 2014, 14, 519. | 0.4 | 4 |
| 61 | Energy and exergy analyses of solar ponds in the Indian climatic conditions. International Journal of Exergy, 2014, 15, 121. | 0.4 | 7 |
| 62 | The Fungal Pre-Treatment of Maize Cob Heart and Water Hyacinth for Enhanced Biomethanation. International Journal of Green Energy, 2014, 11, 40-49. | 3.8 | 11 |
| 63 | Cost-benefit and systems analysis of passively ventilated solar greenhouses for food production in arid and semi-arid regions. Environment Systems and Decisions, 2014, 34, 160-167. | 3.4 | 17 |
| 64 | Experimental investigation of drying of garlic clove in solar dryer using phase change material as energy storage. Journal of Thermal Analysis and Calorimetry, 2014, 118, 533-539. | 3.6 | 68 |
| 65 | Solar cooker realizations in actual use: An overview. Renewable and Sustainable Energy Reviews, 2014, 37, 288-306. | 16.4 | 88 |
| 66 | Energy auditing of chemical industry and scope for renewable energy. Engineering and Technology in India, 2014, 5, 80-86. | 0.0 | 0 |
| 67 | Optimum exergy efficiency of single-effect ideal passive solar stills. Energy Efficiency, 2013, 6, 595-606. | 2.8 | 35 |
| 68 | Review on power generation scenario of India. Renewable and Sustainable Energy Reviews, 2013, 18, 43-48. | 16.4 | 32 |
| 69 | Thermal modeling, energy and exergy analysis of animal feed solar cooker. Journal of Renewable and Sustainable Energy, 2013, 5, 043105. | 2.0 | 12 |
| 70 | Effects of thermal conductivity and geometry of materials on the temperature variation in packed bed solar air heater. Journal of Thermal Analysis and Calorimetry, 2013, 111, 839-847. | 3.6 | 17 |
| 71 | Energetic and exergetic analysis of three different solar cookers. Journal of Renewable and Sustainable Energy, 2013, 5, 023102. | 2.0 | 9 |
| 72 | Alternative fuels for transportation vehicles: A technical review. Renewable and Sustainable Energy Reviews, 2013, 25, 404-419. | 16.4 | 172 |

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| 73 | Emergence of energy storage technologies as the solution for reliable operation of smart power systems: A review. <i>Renewable and Sustainable Energy Reviews</i> , 2013, 25, 135-165. | 16.4 | 310 |
| 74 | Techno-economic evaluation of masonry type animal feed solar cooker in rural areas of an Indian state Rajasthan. <i>Energy Policy</i> , 2013, 52, 583-586. | 8.8 | 26 |
| 75 | Sustainable development with renewable energy resources: a review. <i>World Review of Science, Technology and Sustainable Development</i> , 2013, 10, 163. | 0.4 | 11 |
| 76 | Thermal performance of a focusing type collector for paraffin wax melting. <i>Journal of Renewable and Sustainable Energy</i> , 2012, 4, 023114. | 2.0 | 1 |
| 77 | State of the art on solar drying technology: a review. <i>International Journal of Renewable Energy Technology</i> , 2012, 3, 107. | 0.3 | 12 |
| 78 | Performance evaluation of solar tunnel dryer for grape drying. <i>International Journal of Renewable Energy Technology</i> , 2012, 3, 1. | 0.3 | 4 |
| 79 | Thermodynamic evaluation of heat recovery through a Canopus heat exchanger for vapor compression refrigeration (VCR) system. <i>Journal of Thermal Analysis and Calorimetry</i> , 2012, 110, 1493-1499. | 3.6 | 13 |
| 80 | Experimental investigation of energy and exergy efficiencies of domestic size parabolic dish solar cooker. <i>Journal of Renewable and Sustainable Energy</i> , 2012, 4, . | 2.0 | 31 |
| 81 | Review on solar air heating system with and without thermal energy storage system. <i>Renewable and Sustainable Energy Reviews</i> , 2012, 16, 2289-2303. | 16.4 | 160 |
| 82 | Thermo chemical conversion of biomass – Eco friendly energy routes. <i>Renewable and Sustainable Energy Reviews</i> , 2012, 16, 1801-1816. | 16.4 | 217 |
| 83 | A review on energy and exergy analysis of solar drying systems. <i>Renewable and Sustainable Energy Reviews</i> , 2012, 16, 2812-2819. | 16.4 | 56 |
| 84 | State of the art of solar cooking: An overview. <i>Renewable and Sustainable Energy Reviews</i> , 2012, 16, 3776-3785. | 16.4 | 112 |
| 85 | Biodiesel resources and production technologies – A review. <i>Renewable and Sustainable Energy Reviews</i> , 2012, 16, 3680-3689. | 16.4 | 162 |
| 86 | Exergetic analysis of a vapour compression refrigeration system with R134a, R143a, R152a, R404A, R407C, R410A, R502 and R507A. <i>Clean Technologies and Environmental Policy</i> , 2012, 14, 47-53. | 4.1 | 50 |
| 87 | Experimental investigation of an applicator of liquid slurry, from biogas production, for crop production. <i>Environmental Technology (United Kingdom)</i> , 2011, 32, 873-878. | 2.2 | 4 |
| 88 | Performance of open core down draft gasifier with densified agro residue fuel. <i>International Journal of Sustainable Energy</i> , 2011, 30, 302-310. | 2.4 | 5 |
| 89 | Evaluation of traditional half orange type charcoal kiln for carbonisation: a case study. <i>World Review of Science, Technology and Sustainable Development</i> , 2011, 8, 196. | 0.4 | 2 |
| 90 | Bio Diesel from Castor Oil – A Green Energy Option. <i>Low Carbon Economy</i> , 2011, 02, 1-6. | 1.2 | 73 |

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| 91 | Solar greenhouse an option for renewable and sustainable farming. Renewable and Sustainable Energy Reviews, 2011, 15, 3934-3945. | 16.4 | 102 |
| 92 | Design and development of energy efficient solar tunnel dryer for industrial drying. Clean Technologies and Environmental Policy, 2011, 13, 125-132. | 4.1 | 24 |
| 93 | Development of domestic biogas stove. Biomass Conversion and Biorefinery, 2011, 1, 99-103. | 4.6 | 12 |
| 94 | Improved Biogas Stove with Scrubbing Unit for Household Use. Waste and Biomass Valorization, 2011, 2, 397-402. | 3.4 | 5 |
| 95 | Performance evaluation of producer gas burner for industrial application. Biomass and Bioenergy, 2011, 35, 1373-1377. | 5.7 | 20 |
| 96 | Role of renewable energy sources in environmental protection: A review. Renewable and Sustainable Energy Reviews, 2011, 15, 1513-1524. | 16.4 | 2,614 |
| 97 | Experimental investigation of producer gas burner for thermal application. International Journal of Sustainable Energy, 2011, 30, 376-384. | 2.4 | 6 |
| 98 | A Comparative Study of Thumba Seed Bio Diesel. Journal of Environmental Protection, 2011, 02, 454-459. | 0.7 | 4 |
| 99 | An Approach to Analyse Energy and Exergy Analysis of Thermal Power Plants: A Review. Smart Grid and Renewable Energy, 2010, 01, 143-152. | 1.1 | 37 |
| 100 | Design and performance evaluation of biogas stove for community cooking application. International Journal of Sustainable Energy, 2010, 29, 116-123. | 2.4 | 23 |
| 101 | Experimental studies on hemi cylindrical walk-in type solar tunnel dryer for grape drying. Applied Energy, 2010, 87, 2764-2767. | 10.1 | 90 |
| 102 | Performance evaluation of a diesel engine fueled with methyl ester of castor seed oil. Applied Thermal Engineering, 2010, 30, 245-249. | 6.0 | 158 |
| 103 | CO2 mitigation potential from biodiesel of castor seed oil in Indian context. Clean Technologies and Environmental Policy, 2010, 12, 579-582. | 4.1 | 25 |
| 104 | Performance Evaluation of Developed Domestic Cook Stove with Jatropha Shell. Waste and Biomass Valorization, 2010, 1, 309-314. | 3.4 | 29 |
| 105 | Experimental investigation of energy and exergy efficiency of masonry-type solar cooker for animal feed. International Journal of Sustainable Energy, 2010, 29, 178-184. | 2.4 | 18 |
| 106 | Experimental investigation of open core downdraft biomass gasifier for food processing industry. Mitigation and Adaptation Strategies for Global Change, 2009, 14, 547-556. | 2.1 | 21 |
| 107 | Mitigation of greenhouse gases by adoption of improved biomass cookstoves. Mitigation and Adaptation Strategies for Global Change, 2009, 14, 569-578. | 2.1 | 40 |
| 108 | Design and performance evaluation of energy efficient biomass gasifier based cookstove on multi fuels. Mitigation and Adaptation Strategies for Global Change, 2009, 14, 627-633. | 2.1 | 41 |

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| 109 | Potential of surplus biomass gasifier based power generation: A case study of an Indian state Rajasthan. <i>Mitigation and Adaptation Strategies for Global Change</i> , 2009, 14, 711-720. | 2.1 | 11 |
| 110 | Experimental studies on hemi cylindrical walk-in type solar tunnel dryer for grape drying. <i>Applied Solar Energy (English Translation of Geliotekhnika)</i> , 2009, 45, 269-273. | 1.6 | 5 |
| 111 | The emission characteristics of a compression ignition engine operating on castor oil methyl ester. <i>International Journal of Global Warming</i> , 2009, 1, 368. | 0.5 | 13 |
| 112 | Performance evaluation of exhaust air recirculation system of mixed mode solar dryer for drying of onion flakes. <i>International Journal of Renewable Energy Technology</i> , 2009, 1, 29. | 0.3 | 11 |
| 113 | Design and performance evaluation of a 5kW producer gas stove. <i>Biomass and Bioenergy</i> , 2008, 32, 1349-1352. | 5.7 | 63 |
| 114 | Thermal modeling and experimental validation of solar tunnel dryer: a clean energy option for drying surgical cotton. <i>International Journal of Low-Carbon Technologies</i> , 0, , ctt053. | 2.6 | 5 |
| 115 | Experimental investigation on the production of bio-oil from wheat straw. <i>Energy Sources, Part A: Recovery, Utilization and Environmental Effects</i> , 0, , 1-16. | 2.3 | 14 |
| 116 | Influences of biochar in biomethanation and CO2 mitigation potential. <i>Biomass Conversion and Biorefinery</i> , 0, , 1. | 4.6 | 12 |
| 117 | Design and Development of Solar-biogas Hybrid Dryer for Onion Drying. <i>International Journal of Environment and Climate Change</i> , 0, , 65-73. | 0.0 | 3 |
| 118 | Catalysts and their role in biomass gasification and tar abatement: a review. <i>Biomass Conversion and Biorefinery</i> , 0, , 1. | 4.6 | 19 |
| 119 | RECEIVER TEMPERATURE MAPS OF PARABOLIC COLLECTOR USED FOR SOLAR FOOD COOKING APPLICATION IN ALGERIA. <i>Journal of Thermal Engineering</i> , 0, , 1656-1667. | 1.6 | 5 |
| 120 | Experimental Investigation on Energy Recovery System for Continuous Biochar Production System. <i>International Journal of Environment and Climate Change</i> , 0, , 300-310. | 0.0 | 0 |