

Narayan Lal Panwar

List of Publications by Year in descending order

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120
papers

6,402
citations

147801

31
h-index

69250

77
g-index

126
all docs

126
docs citations

126
times ranked

7579
citing authors

#	ARTICLE	IF	CITATIONS
1	Role of renewable energy sources in environmental protection: A review. Renewable and Sustainable Energy Reviews, 2011, 15, 1513-1524.	16.4	2,614
2	Emergence of energy storage technologies as the solution for reliable operation of smart power systems: A review. Renewable and Sustainable Energy Reviews, 2013, 25, 135-165.	16.4	310
3	Recent advancement in biogas enrichment and its applications. Renewable and Sustainable Energy Reviews, 2017, 73, 892-903.	16.4	259
4	Thermo chemical conversion of biomass – Eco friendly energy routes. Renewable and Sustainable Energy Reviews, 2012, 16, 1801-1816.	16.4	217
5	Alternative fuels for transportation vehicles: A technical review. Renewable and Sustainable Energy Reviews, 2013, 25, 404-419.	16.4	172
6	Biodiesel resources and production technologies – A review. Renewable and Sustainable Energy Reviews, 2012, 16, 3680-3689.	16.4	162
7	Review on solar air heating system with and without thermal energy storage system. Renewable and Sustainable Energy Reviews, 2012, 16, 2289-2303.	16.4	160
8	Performance evaluation of a diesel engine fueled with methyl ester of castor seed oil. Applied Thermal Engineering, 2010, 30, 245-249.	6.0	158
9	Comprehensive review on production and utilization of biochar. SN Applied Sciences, 2019, 1, 1.	2.9	123
10	State of the art of solar cooking: An overview. Renewable and Sustainable Energy Reviews, 2012, 16, 3776-3785.	16.4	112
11	Solar greenhouse an option for renewable and sustainable farming. Renewable and Sustainable Energy Reviews, 2011, 15, 3934-3945.	16.4	102
12	Influence of activation conditions on the physicochemical properties of activated biochar: a review. Biomass Conversion and Biorefinery, 2022, 12, 925-947.	4.6	93
13	Experimental studies on hemi cylindrical walk-in type solar tunnel dryer for grape drying. Applied Energy, 2010, 87, 2764-2767.	10.1	90
14	Improved biomass cookstoves for sustainable development: A review. Renewable and Sustainable Energy Reviews, 2017, 73, 672-687.	16.4	90
15	Solar cooker realizations in actual use: An overview. Renewable and Sustainable Energy Reviews, 2014, 37, 288-306.	16.4	88
16	Bio Diesel from Castor Oil – A Green Energy Option. Low Carbon Economy, 2011, 02, 1-6.	1.2	73
17	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
18	Energy and exergy analysis of passive solar distillation systems. International Journal of Low-Carbon Technologies, 2016, 11, 211-221.	2.6	68

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19	Thermodynamic performance evaluation of solar and other thermal power generation systems: A review. <i>Renewable and Sustainable Energy Reviews</i> , 2015, 50, 567-582.	16.4	64
20	Design and performance evaluation of a 5kW producer gas stove. <i>Biomass and Bioenergy</i> , 2008, 32, 1349-1352.	5.7	63
21	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
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	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
24	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
25	Biomass gasification for climate change mitigation and policy framework in India: A review. <i>Bioresource Technology Reports</i> , 2022, 17, 100892.	2.7	42
26	Design and performance evaluation of energy efficient biomass gasifier based cookstove on multi fuels. <i>Mitigation and Adaptation Strategies for Global Change</i> , 2009, 14, 627-633.	2.1	41
27	Mitigation of greenhouse gases by adoption of improved biomass cookstoves. <i>Mitigation and Adaptation Strategies for Global Change</i> , 2009, 14, 569-578.	2.1	40
28	Strategic overview of management of future solar photovoltaic panel waste generation in the Indian context. <i>Waste Management and Research</i> , 2022, 40, 504-518.	3.9	39
29	An Approach to Analyse Energy and Exergy Analysis of Thermal Power Plants: A Review. <i>Smart Grid and Renewable Energy</i> , 2010, 01, 143-152.	1.1	37
30	Optimum exergy efficiency of single-effect ideal passive solar stills. <i>Energy Efficiency</i> , 2013, 6, 595-606.	2.8	35
31	An overview of recent development in bio-oil upgrading and separation techniques. <i>Environmental Engineering Research</i> , 2021, 26, 200382-0.	2.5	34
32	Review on power generation scenario of India. <i>Renewable and Sustainable Energy Reviews</i> , 2013, 18, 43-48.	16.4	32
33	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
34	Performance Evaluation of Developed Domestic Cook Stove with Jatropha Shell. <i>Waste and Biomass Valorization</i> , 2010, 1, 309-314.	3.4	29
35	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
36	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

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37	CO2 mitigation potential from biodiesel of castor seed oil in Indian context. <i>Clean Technologies and Environmental Policy</i> , 2010, 12, 579-582.	4.1	25
38	Kinetic analysis and thermal degradation study on wheat straw and its biochar from vacuum pyrolysis under non-isothermal condition. <i>Biomass Conversion and Biorefinery</i> , 2023, 13, 7547-7559.	4.6	25
39	Design and development of energy efficient solar tunnel dryer for industrial drying. <i>Clean Technologies and Environmental Policy</i> , 2011, 13, 125-132.	4.1	24
40	Design and performance evaluation of biogas stove for community cooking application. <i>International Journal of Sustainable Energy</i> , 2010, 29, 116-123.	2.4	23
41	Experimental investigation on energy and exergy analysis of coriander (<i>Coriandrum sativum</i> L.) leaves drying in natural convection solar dryer. <i>Applied Solar Energy (English Translation of Geliotekhnika)</i> , 2014, 50, 133-137.	1.6	22
42	Experimental investigation of open core downdraft biomass gasifier for food processing industry. <i>Mitigation and Adaptation Strategies for Global Change</i> , 2009, 14, 547-556.	2.1	21
43	Performance evaluation of producer gas burner for industrial application. <i>Biomass and Bioenergy</i> , 2011, 35, 1373-1377.	5.7	20
44	Kinetic study on pyrolysis of mustard stalk using thermogravimetric analysis. <i>Bioresource Technology Reports</i> , 2022, 17, 100942.	2.7	20
45	Experimental investigation on biochar from groundnut shell in a continuous production system. <i>Biomass Conversion and Biorefinery</i> , 2022, 12, 1093-1103.	4.6	19
46	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
47	Catalysts and their role in biomass gasification and tar abatement: a review. <i>Biomass Conversion and Biorefinery</i> , 0, , 1.	4.6	19
48	Experimental investigation of energy and exergy efficiency of masonry-type solar cooker for animal feed. <i>International Journal of Sustainable Energy</i> , 2010, 29, 178-184.	2.4	18
49	Effects of thermal conductivity and geometry of materials on the temperature variation in packed bed solar air heater. <i>Journal of Thermal Analysis and Calorimetry</i> , 2013, 111, 839-847.	3.6	17
50	Cost-benefit and systems analysis of passively ventilated solar greenhouses for food production in arid and semi-arid regions. <i>Environment Systems and Decisions</i> , 2014, 34, 160-167.	3.4	17
51	Pyrolysis and kinetic behaviour of black gram straw using thermogravimetric analysis. <i>Energy Sources, Part A: Recovery, Utilization and Environmental Effects</i> , 2023, 45, 2371-2384.	2.3	16
52	Experimental investigation and thermal modelling of box and parabolic type solar cookers for temperature mapping. <i>Journal of Thermal Analysis and Calorimetry</i> , 2019, 136, 1347-1364.	3.6	16
53	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
54	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

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55	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
56	Development of domestic biogas stove. <i>Biomass Conversion and Biorefinery</i> , 2011, 1, 99-103.	4.6	12
57	State of the art on solar drying technology: a review. <i>International Journal of Renewable Energy Technology</i> , 2012, 3, 107.	0.3	12
58	Thermal modeling, energy and exergy analysis of animal feed solar cooker. <i>Journal of Renewable and Sustainable Energy</i> , 2013, 5, 043105.	2.0	12
59	Performance Evaluation of Improved Carbonized Cashew Nut Shell Based Cookstove. <i>Waste and Biomass Valorization</i> , 2016, 7, 1221-1225.	3.4	12
60	Solar map of India under clear sky conditions. <i>International Journal of Sustainable Energy</i> , 2019, 38, 415-446.	2.4	12
61	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
62	Influences of biochar in biomethanation and CO ₂ mitigation potential. <i>Biomass Conversion and Biorefinery</i> , 0, , 1.	4.6	12
63	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
64	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
65	Sustainable development with renewable energy resources: a review. <i>World Review of Science, Technology and Sustainable Development</i> , 2013, 10, 163.	0.4	11
66	The Fungal Pre-Treatment of Maize Cob Heart and Water Hyacinth for Enhanced Biomethanation. <i>International Journal of Green Energy</i> , 2014, 11, 40-49.	3.8	11
67	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
68	Outline of solar energy in India: advancements, policies, barriers, socio-economic aspects and impacts of COVID on solar industries. <i>International Journal of Ambient Energy</i> , 2022, 43, 7630-7642.	2.5	11
69	Energetic and exergetic analysis of three different solar cookers. <i>Journal of Renewable and Sustainable Energy</i> , 2013, 5, 023102.	2.0	9
70	Dust impact on concentrated solar power: A review. <i>Environmental Engineering Research</i> , 2022, 27, 210345-0.	2.5	9
71	Energetic and exergetic performance evaluation of improved biomass cookstoves. <i>International Journal of Exergy</i> , 2014, 14, 430.	0.4	8
72	Environment friendly biomass gasifier cookstove for community cooking. <i>Environmental Technology (United Kingdom)</i> , 2015, 36, 2308-2311.	2.2	8

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73	Design and development of solar energy powered maize milling machine. International Journal of Ambient Energy, 2022, 43, 1671-1676.	2.5	8
74	Thermal degradation of coconut husk waste biomass under non-isothermal condition. Biomass Conversion and Biorefinery, 2023, 13, 7613-7622.	4.6	8
75	Energy and exergy analyses of solar ponds in the Indian climatic conditions. International Journal of Exergy, 2014, 15, 121.	0.4	7
76	Energetic and exergetic evaluation of solar box cooker in Algerian climatic conditions. International Journal of Exergy, 2015, 16, 337.	0.4	7
77	Current status, opportunities and challenges in anaerobic digestion in Indian context: An overview. Bioresource Technology Reports, 2021, 16, 100830.	2.7	7
78	Experimental investigation of producer gas burner for thermal application. International Journal of Sustainable Energy, 2011, 30, 376-384.	2.4	6
79	Experimental studies on hemi cylindrical walk-in type solar tunnel dryer for grape drying. Applied Solar Energy (English Translation of Geliotekhnika), 2009, 45, 269-273.	1.6	5
80	Performance of open core down draft gasifier with densified agro residue fuel. International Journal of Sustainable Energy, 2011, 30, 302-310.	2.4	5
81	Improved Biogas Stove with Scrubbing Unit for Household Use. Waste and Biomass Valorization, 2011, 2, 397-402.	3.4	5
82	Thermal modeling and experimental validation of solar tunnel dryer: a clean energy option for drying surgical cotton. International Journal of Low-Carbon Technologies, 0, , ctt053.	2.6	5
83	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
84	RECEIVER TEMPERATURE MAPS OF PARABOLIC COLLECTOR USED FOR SOLAR FOOD COOKING APPLICATION IN ALGERIA. Journal of Thermal Engineering, 0, , 1656-1667.	1.6	5
85	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
86	Experimental investigation of an applicator of liquid slurry, from biogas production, for crop production. Environmental Technology (United Kingdom), 2011, 32, 873-878.	2.2	4
87	Performance evaluation of solar tunnel dryer for grape drying. International Journal of Renewable Energy Technology, 2012, 3, 1.	0.3	4
88	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
89	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
90	Experimental Investigation of Eco Friendly Biomass Fired Water Heating System. Waste and Biomass Valorization, 2016, 7, 1491-1494.	3.4	4

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91	Experimental investigation on biomass fired dryer for drying of agricultural products. International Journal of Ambient Energy, 2021, 42, 1765-1768.	2.5	4
92	Experimental Investigation on Farmer-Friendly Hybrid Dryer for Indoor Drying of Mushroom. Springer Proceedings in Energy, 2020, , 81-92.	0.3	4
93	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
94	A Comparative Study of Thumba Seed Bio Diesel. Journal of Environmental Protection, 2011, 02, 454-459.	0.7	4
95	Waste heat recovery from improved cookstove through thermoelectric generator. International Journal of Ambient Energy, 2022, 43, 466-470.	2.5	3
96	Experimental investigation on non-oxidative biomass torrefaction system. Energy Sources, Part A: Recovery, Utilization and Environmental Effects, 2020, , 1-12.	2.3	3
97	Design and Development of Solar-biogas Hybrid Dryer for Onion Drying. International Journal of Environment and Climate Change, 0, , 65-73.	0.0	3
98	Experimental Analysis of Solar Photovoltaic System under Partial Shading. International Journal of Current Microbiology and Applied Sciences, 2020, 9, 1623-1630.	0.1	3
99	Thermal performance and heat storage behaviour of three pots improved cookstove. Energy Nexus, 2022, 6, 100074.	7.7	3
100	Evaluation of traditional half orange type charcoal kiln for carbonisation: a case study. World Review of Science, Technology and Sustainable Development, 2011, 8, 196.	0.4	2
101	Experimental study of drying techniques in retention of nutrients in aonla. International Journal of Postharvest Technology and Innovation, 2015, 5, 81.	0.1	2
102	Energetic and Exergetic Assessment of 50 W Solar PV System. Applied Solar Energy (English) Tj ETQq0 0 0 rgBT /Overlock 10 ₂ Tf 50 302	1.6	2
103	Experimental investigation on energy-efficient twin-mode biomass improved cookstove. SN Applied Sciences, 2019, 1, 1.	2.9	2
104	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
105	Influences of a novel cylindrical solar dryer on farmer's income and its impact on environment. Environmental Science and Pollution Research, 2022, 29, 78887-78900.	5.3	2
106	Thermal performance of a focusing type collector for paraffin wax melting. Journal of Renewable and Sustainable Energy, 2012, 4, 023114.	2.0	1
107	Design improvement and experimental study on shell and tube condenser for bio-oil recovery from fast pyrolysis of wheat straw biomass. SN Applied Sciences, 2021, 3, 1.	2.9	1
108	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

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109	Development of biomass-based hydrothermal liquefaction system for essential oil extraction. International Journal of Ambient Energy, 2022, 43, 952-957.	2.5	0
110	Bio-oil production from agricultural crop residues - a review. International Journal of Environment and Sustainable Development, 2021, 20, 301.	0.3	0
111	Bio-oil production from agricultural crop residues - a review. International Journal of Environment and Sustainable Development, 2021, 20, 301.	0.3	0
112	Energetic and exergetic analysis of solar photovoltaicthermoelectric generator hybrid system. International Journal of Agricultural Sciences, 2021, 17, 256-261.	0.0	0
113	Energy auditing of chemical industry and scope for renewable energy. Engineering and Technology in India, 2014, 5, 80-86.	0.0	0
114	Energetic and Exergetic Evaluation of Biomass Fired Water Heating System. Trends in Renewable Energy, 2017, , .	0.3	0
115	Experimental Investigation on Energy Recovery System for Continuous Biochar Production System. International Journal of Environment and Climate Change, 0, , 300-310.	0.0	0
116	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
117	Development of an analytical model for cost-based optimization of KVIC biogas plant dimensions. Bioresource Technology Reports, 2021, 16, 100879.	2.7	0
118	Health Problems Associated with Existing Indoor Air Quality in Tribal Household Kitchens. International Journal of Current Microbiology and Applied Sciences, 2020, 9, 809-816.	0.1	0
119	Electrical Analysis of Solar Photovoltaic-Thermoelectric Generator Hybrid System. International Journal of Current Microbiology and Applied Sciences, 2020, 9, 2925-2932.	0.1	0
120	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