

Lakshmi Narain College of Technology Bhopal
Department of Mechanical Engineering
Journal Publication Mapping of Sustainable Development Goals (SDG)
JOURNAL PUBLICATIONS



S. N.	Faculty Name	Paper Title	Year	Journal Name	Volume	Issue	ISSN	National/ International	Indexing (Sci/Scopus/UGC/ others)	Mapping with SDG Goal
1	Dr Shankar Kumar et al	Effective irradiance and energy yield analysis of a glass-glass front and rear side photovoltaic panels	2026	ScienceDirect Elsevier: Optics	Vol24		2666-9501	International	Scopus	SDG 7 – Affordable and Clean Energy SDG 9 – Industry, Innovation and Infrastructure SDG 11 – Sustainable Cities and Communities SDG 12 – Responsible Consumption and Production SDG 13 – Climate Action
2	Dr Shankar Kumar et al	Retrofitted conversion of a Maruti Alto gasoline engine to compressed natural gas for sustainable mobility	2026	Scientific Reports	16	Article number: 16906 (2026)	2045-2322 (o)	International	Scopus	SDG 7 – Affordable and Clean Energy SDG 9 – Industry, Innovation and Infrastructure SDG 11 – Sustainable Cities and Communities SDG 12 – Responsible Consumption and Production SDG 13 – Climate Action
3	Dr Pravesh Kumar Kushwaha et al	Effect of velocity ratio and RPH on the performance of desiccant wheel: experimental and numerical investigation	2026	ENERGY SOURCES, PART A: RECOVERY, UTILIZATION, AND ENVIRONMENTAL EFFECTS; Taylor & Francis	VOL. 48,	NO. 1,	556-7230 (e-ISSN)	International	Scopus	SDG 7 – Affordable and Clean Energy SDG 9 – Industry, Innovation and Infrastructure SDG 11 – Sustainable Cities and Communities SDG 12 – Responsible Consumption and Production SDG 13 – Climate Action
4	Dr Pravesh Kumar Kushwaha et al	Numerical investigation of solar driven atmospheric water harvesting system based on desiccant wheel under diverse climatic conditions in India	2026	Heat and Mass Transfer : Springer Nature Link	Vol 62	Article number 33 (2026)	0947-7411	International	SCIE	SDG 6 – Clean Water and Sanitation SDG 7 – Affordable and Clean Energy SDG 9 – Industry, Innovation and Infrastructure SDG 11 – Sustainable Cities and Communities SDG 12 – Responsible Consumption and Production
5	Dr Shankar Kumar et al	Forecasting power generation and battery charge in residential solar systems with front and rear side photovoltaic panels	2026	Journal of Energy Storage	164		2352-152X/	International	SCIE	SDG 7 – Affordable and Clean Energy
6	Dr R K Pandey et al	Retrofitted conversion of a Maruti Alto gasoline engine to compressed natural gas for sustainable mobility	2026	Scientific Reports	16	Article number: 16906 (2026)	2045-2322 (o)	International	Scopus	SDG 7 – Affordable and Clean Energy SDG 9 – Industry, Innovation and Infrastructure SDG 11 – Sustainable Cities and Communities SDG 12 – Responsible Consumption and Production SDG 13 – Climate Action

7	Dr Hitesh Kumar Khare et al	Advancements in internet of things integrated solar thermal systems	2026	Journal of Thermal Engineering	12	4	21487847	International	Scopus, ESCI	SDG 7 – Affordable and Clean Energy SDG 9 – Industry, Innovation and Infrastructure SDG 11 – Sustainable Cities and Communities SDG 12 – Responsible Consumption and Production SDG 13 – Climate Action
8	Dr. Vipin Shrivastava et al	Advancements in solar still desalination using nanomaterials: A comprehensive review of design, productivity, and sustainability	2026	Sustainable Energy Technologies and A	Vol 92	105167	2213-1396	International	SCIE	SDG 6 – Clean Water and Sanitation, SDG 7 – Affordable and Clean Energy, SDG 9 – Industry, Innovation and Infrastructure, SDG 13 – Climate Action,
9	Dr. Vipin Shrivastava et al	Advancements in internet of things integrated solar thermal systems	2026	Journal of Thermal Engineering	Vol 12	Issue 6	2148-7847	International	Scopus	SDG 7 – Affordable and Clean Energy, SDG 9 – Industry, Innovation and Infrastructure
10	Dr. Vipin Shrivastava et al	A decade of progress in indirect solar drying: A review of systems for fruits, vegetables, and medicinal herbs (2015–2025)	2026	Renewable and Sustainable Energy Reviews	Vol 226	116388	1364-0321	International	SCI/SCEI	SDG 7 – Affordable and Clean Energy, SDG 12 – Responsible Consumption and Production

S. N.	Faculty Name	Paper Title	Year	Journal Name	Volume	Issue	ISSN	National/ International	Indexing (Sci/Scopus/UGC/ others)	Mapping with SDG Goal
1	Dr Vipin Shrivastava	Enhancing the Performance of a Solar Air Heater with Arc-shaped Artificial Rib Roughness	2025	Journal of Mines, Metals and Fuels	In press	In press	0022-2755	International	SCOPUS	SDG 7 – Affordable and Clean Energy SDG 9 – Industry, Innovation and Infrastructure SDG 13 – Climate Action
2	Dr Vipin Shrivastava	Performance Improvement of Solar Air Heater through Rib Roughness on the Absorber Plate	2025	Journal of Mines, Metals and Fuels	In press	In press	0022-2756	International	SCOPUS	SDG 7 – Affordable and Clean Energy SDG 9 – Industry, Innovation and Infrastructure SDG 11 – Sustainable Cities and Communities SDG 12 – Responsible Consumption and Production SDG 13 – Climate Action
3	Dr Vipin Shrivastava	Advancements in Computational Tools for Indirect Solar Drying Systems: A Comprehensive Review	2025	Sustainable Energy and Technological Assessments	82		2213-1396	International	SCI/SCEI	SDG 7 – Affordable and Clean Energy SDG 9 – Industry, Innovation and Infrastructure SDG 11 – Sustainable Cities and Communities SDG 12 – Responsible Consumption and Production SDG 13 – Climate Action
4	Dr Vipin Shrivastava	Thermal and enviro-economic analysis of solar stills: Influence of fin geometry, size, and water depth	2025	Sustainable Energy and Technological Assessments	77		2213-1397	International	SCI/SCEI	SDG 7 – Affordable and Clean Energy SDG 9 – Industry, Innovation and Infrastructure SDG 11 – Sustainable Cities and Communities SDG 12 – Responsible Consumption and Production SDG 13 – Climate Action
5	Dr Vipin Shrivastava	Performance Assessment of Passive Solar Still with Different Thermal Energy Storage Materials	2025	Desalination and Water Treatment	323	1288	1944-3986	International	SCI/SCEI	SDG 7 – Affordable and Clean Energy SDG 9 – Industry, Innovation and Infrastructure SDG 12 – Responsible Consumption and Production SDG 13 – Climate Action
6	Dr Vipin Shrivastava	Revisiting the Energy-Efficient Modified Solar Still	2025	Springer Proceedings in Physics	419	-	0930-8989	International	SCOPUS	SDG 7 – Affordable and Clean Energy SDG 9 – Industry, Innovation and Infrastructure SDG 12 – Responsible Consumption and Production SDG 13 – Climate Action

7	Dr Vipin Shrivastava	Enhancing the Performance of a Solar Air Heater with Arc-shaped Artificial Rib Roughness	2025	Journal of Mines, Metals and Fuels	In press	In press	0022-2755	International	SCOPUS	SDG 7 – Affordable and Clean Energy SDG 9 – Industry, Innovation and Infrastructure SDG 13 – Climate Action
8	Dr Vipin Shrivastava	Performance Improvement of Solar Air Heater through Rib Roughness on the Absorber Plate	2025	Journal of Mines, Metals and Fuels	In press	In press	0022-2756	International	SCOPUS	SDG 7 – Affordable and Clean Energy SDG 9 – Industry, Innovation and Infrastructure SDG 12 – Responsible Consumption and Production SDG 13 – Climate Action
9	Dr Pravesh Kumar Kushwaha	Performance evaluation of a solar-assisted air conditioning system based on desiccant wheel	2025	Thermal Science and Engineering Progress	68	November	2451-9049	International	SCI/SCEI	SDG 7 – Affordable and Clean Energy SDG 9 – Industry, Innovation and Infrastructure SDG 12 – Responsible Consumption and Production SDG 13 – Climate Action
10	Dr Pravesh Kumar Kushwaha	Effect of desiccant coating materials on the performance of solar-powered atmospheric water harvesting system based on desiccant wheel	2025	Journal of Thermal Analysis and Calorimetry	150	November	1588-2926	International	SCI/SCEI	SDG 7 – Affordable and Clean Energy SDG 9 – Industry, Innovation and Infrastructure SDG 12 – Responsible Consumption and Production SDG 13 – Climate Action
11	Dr Pravesh Kumar Kushwaha	Numerical and experimental investigation of a solar-powered atmospheric water harvesting system based on two-stage desiccant wheel	2025	Applied Thermal Engineering	279	November	1873-5606	International	SCI/SCEI	SDG 7 – Affordable and Clean Energy SDG 9 – Industry, Innovation and Infrastructure SDG 12 – Responsible Consumption and Production SDG 13 – Climate Action
12	Dr Pravesh Kumar Kushwaha	Effect of ambient conditions on the performance of solar-powered atmospheric water harvesting system based on desiccant wheel: An experimental investigation	2025	Solar Energy Materials and Solar Cells	279	January	1879-3398	International	SCI/SCEI	SDG 7 – Affordable and Clean Energy SDG 9 – Industry, Innovation and Infrastructure SDG 12 – Responsible Consumption and Production SDG 13 – Climate Action
13	Dr Hitesh Kumar	A numerical study of smart hybrid cooling for thermal management in high-capacity pouch cell packs	2025	International Communications in Heat and Mass Transfer	Volume 169		0735-1933	International	SCI	SDG 7 – Affordable and Clean Energy SDG 9 – Industry, Innovation and Infrastructure SDG 11 – Sustainable Cities and Communities SDG 12 – Responsible Consumption and Production SDG 13 – Climate Action
14	Dr Rajeev Shrivastava	Advancement in soil management Optimizing crop production	2024	Journal of Agriculture and food research	18			International		SDG 2 Zero Hunger SDG 6 Clean Water and Sanitation SDG 12 Responsible Consumption and Production SDG 13 Climate Action SDG 15 Life on Land

15	Dr. Santosh Sanodia	Performance assessment of double slope solar still integrated with Adapted phase material in bhopal climate	2025	Wiley Macromolecular Symposia	415	1	e70170	International	SCOPUS	SDG 6 - Clean Water and Sanitation, SDG 7 – Affordable and Clean Energy, SDG 9 - Industry, Innovation and Infrastructure, SDG 12- Responsible Consumption and Production, SDG 13-Climate
----	---------------------	---	------	-------------------------------	-----	---	--------	---------------	--------	--

Lakshmi Narain College of Technology Bhopal
Department of Mechanical Engineering
Journal Publication Mapping of Sustainable Development Goals (SDG)

S. N.	Faculty Name	Paper Title	Year	Journal Name	Volume	Issue	ISSN	National/ International	Indexing (SCI/Scopus/UGC/o thers	Mapping with SDG Goal
1	Dr. Neeraj Dubey et al	Mechanical and interfacial performance of coconut palm leaf mid rib for plastic reinforcement applications	2023	IJASESTR	9	4	2394-9627			SDG 9 – Industry, Innovation and Infrastructure SDG 12 – Responsible Consumption and Production SDG 13 – Climate Action
2	Prof APS Bhadoriya et al	Mechanical and interfacial performance of coconut palm leaf mid rib for plastic reinforcement applications	2023	IJASESTR	9	4	2394-9627			SDG 9 – Industry, Innovation and Infrastructure SDG 12 – Responsible Consumption and Production SDG 13 – Climate Action
3	Dr. Shankar Kumar et al	Performance and evaluation of parabolic solar concentrator using different materials and insulation	2023	IJASESTR	9	3	2394-9627			SDG 7 – Affordable and Clean Energy SDG 9 – Industry, Innovation and Infrastructure SDG 12 – Responsible Consumption and Production
4	Prof Rajeev Shrivastava et al	Unveiling the Potential of Solar Chimney in sustainable building design and natural ventillation	2024	Rabindra Bharati Patrika			0937-0037		UGC	SDG 7 – Affordable and Clean Energy SDG 11– Sustainable Cities and Communities SDG 13 – Climate Action
5	Prof Neetu Singh et al	Thermal Effects on Photovoltaic Panel Efficiency and Enhanced Cooling Strategies for Optimal Performance	2023	International Research Journal of Engineering & applied science	11	4	2322-0821(o), 2394-9910(p)	National	ugc	SDG 7 – Affordable and Clean Energy SDG 9 – Industry, Innovation and Infrastructure SDG 13 – Climate Action

Sr. No.	Faculty Name	Paper Title	Year	Journal Name	Volume	Issue	ISSN	National/ International	Indexing (Sci/Scopus/UGC/others)	Mapping with SDG Goal
1	Dr Vipin Shrivastava	A theoretical parametric analysis to optimize the bed depth of packed bed solar air collector	2022	International Journal of green energy	19	3	1543-507	International	SCI	SDG 7 – Affordable and Clean Energy SDG 9 – Industry, Innovation and Infrastructure SDG 13 – Climate Action
2	Rajeev Shrivastava	Two decade journey of green human resource management research	2022	Benchmarking: An International Journal	30	February	585-602	International	ESCI	SDG 8 -Decent Work and Economic Growth,, SDG 12 – Responsible Consumption and Production SDG 13 – Climate Action
3	Rajeev Shrivastava	Smart manufacturing and sustainability	2022	Benchmarking: An International Journal	30			International	ESCI	SDG 8 -Decent Work and Economic Growth, SDG 9 – Industry, Innovation and Infrastructure, SDG 12 – Responsible Consumption and Production
4	Dr. Jitendra Raghuwanshi	Energy saving passive ventilation strategy using solar chimney	2022	NanoWorld Journal	1					SDG 7 – Affordable and Clean Energy SDG 11– Sustainable Cities and Communities SDG 13 – Climate Action