Dr. Sumer Singh Patel

1. Personal Information

(i)	Name	Dr. Sumer Singh Patel
(ii)	Qualification	Ph.D.
(iii)	Designation	Assistant Professor
(iv)	Email-id	patelsumer@gmail.com
(v)	Employee No.	
(Vi)	Department	Mechanical Engineering
(vii)	Experience	03 Years

2. Educational Qualification

S. No.	Degree	Specialization	Year	University/Board
1.	Ph.D.	Solar Energy	2021	MANIT Bhopal
2.	M.E.	Design and Thermal	2013	I.E.T. D.A.V.V. Indore
3.	B.E.	Mechanical	2009	RGPV Bhopal

3. Research Interests

Thermal Engineering

4. Research Paper Publications

(I) International/National Journal Publications

1. Patel SS, Lanjewar A. Performance study of solar air heater duct with gap in V-rib with symmetrical gap and staggered ribs. *Heat and Mass Transfer*. 2019 Sep 1; 55(9):2517-32.
2. Patel SS, Lanjewar A. Experimental and numerical investigation of solar air heater with novel V-rib geometry. *Journal of Energy Storage*. 2019 Feb 1; 21:750-64.
3. Patel SS, Lanjewar A. Heat Transfer and Friction Factor Correlations for Solar Air Heater with gap in V-rib with symmetrical gap and staggered ribs. *Journal of Thermal Science and Engineering Applications (ASME)*. 2020 Jun 1; 12(3): 031018 (1-18).

4. Patel SS, Lanjewar A. Heat transfer enhancement using additional gap in symmetrical element of V-geometry roughened solar air heater. *Journal of Energy Storage*. 2021 Jun 1; 38:102545.
5. Patel SS, Lanjewar A. Experimental analysis for augmentation of heat transfer in multiple discrete V-patterns combined with staggered ribs solar air heater. *Renewable Energy Focus*. 2018 Jun 1; 25:31-9.
6. Patel SS, Lanjewar A. Exergy based analysis of solar air heater duct with W-shaped rib roughness on the absorber plate. *Archives of Thermodynamics*. 2019; 40.
7. Patel SS, Lanjewar A. Experimental investigation of solar air heater duct with discrete V-rib integrated with staggered elements. *International Journal of Sustainable Engineering*. 2020 Mar 9:1-0.
8. A Critical Review on Different Roughness Geometries and Their Effect on Heat Transfer and Friction Factor (Accepted in *Environmental Science and Pollution Research*)
9. Maheshwari G, Patel SS. The Application of Entransy Dissipation Theory on the Performance Analysis of an Irreversible Atkinson Cycle. *Universal Journal of Mechanical Engineering*. 2013; 1(4):114-21.

Book Chapter:

1. CHAPTER 4: V-Shaped Roughened Geometries and Their Effect on Heat Transfer and Friction Factor in Solar Air Heater. *Sustaining Tomorrow via Innovative Engineering*, pp. 131-170 (2021).

(II) International/National Conference Publications

5. List of Conferences/Workshops/Seminars Organized

6. Invited Lectures/Expert Talks/Chairmanships at Conferences