**LIST OF PUBLICATIONS**

Faculty Name: - Dr. Chidanand Mangrulkar

Asstt. Prof. in Mechanical Engineering department

**International Journals:**

1. C. K. Mangrulkar, V. M. Kriplani, A. S. Dhoble, *'Experimental Investigation of Convective Heat Transfer enhancement using alumina/water and copper oxide/water nanofluids*', Thermal Science, vol. 20, No. 5, 2016, pp. 1681-1692. (SCIE Indexing)

2. C. K. Mangrulkar, A. S. Dhoble, A. R. Deshmukh, S. A. Mandavgane, *'Numerical investigation of heat transfer and friction factor characteristics from in-line cam shaped tube bank in crossflow*', Applied Thermal Engineering 110 (2017) 521–538. (SCIE Indexing)

3. C. K. Mangrulkar, A. S. Dhoble, S. G. Chakrabarty, U. S. Wankhede, *'Experimental and CFD prediction of heat transfer and friction factor characteristics in cross flow tube bank with integral splitter plate*', International Journal of Heat and Mass Transfer 104 (2017) 964–978. (SCIE Indexing)

4. Amit Bartwal, Abhishek Gautam, Manoj Kumar, Chidanand K. Mangrulkar, Sunil Chamoli, *'Thermal performance intensification of a circular heat exchanger tube integrated with compound circular ring–metal wire net inserts*', Chemical Engineering & Processing: Process Intensification124 (2018) 50-70. (SCIE Indexing)

5. Vipin B. Gawande, A. S. Dhoble, D. B. Zodpe, Chidanand Mangrulkar, *A comparative*

*analysis of thermo- hydraulic performance of a roughened solar air heater using various rib*

*shapes*, Australian Journal of Mechanical Engineering**, (2018)**

DOI: 10.1080/14484846.2018.1525171 (Article in press). (Scopus Indexing)

### 6. C. K. Mangrulkar, A. S. Dhoble, S. Chamoli, V. B. Gawande, *Recent advancement in heat*

*transfer and fluid flow characteristics in cross flow heat exchangers*, Renewable &

Sustainable Energy Reviews 113 (2019) 109220. (SCI Indexing)

7. A. Kunwar, M. Kumar, A. Gupta, C.K Mangrulkar, S. Chamoli, [*Experimental investigation of*](javascript:void(0))

*a packed-bed thermal energy storage system fitted with perforated cylindrical elements*, Heat

and Mass Transfer (Springer) 55 (2019)  pp. 2723–2737. (SCIE Indexing).

8. C.K. Mangrulkar, A.S. Dhoble, P.K. Pant, [*Thermal performance escalation of cross flow heat exchanger using in-line elliptical tubes*](javascript:void(0)), Experimental Heat Transfer, (2019) 1-26

**Conference publications**

1. C. K. Mangrulkar, A.S. Dhoble, T. M. Sathe, *Numerical simulation on effect of air attack angle on wake and vortex formation for tandem elliptical cylinders***,** International Conference on Advances in Thermal System, Materials and Design Engineering (ATSMDE – 2017) 21 – 22 Dec' 2017 at V.J.T.I., Mumbai, India.

2. C. K. Mangrulkar, A.S. Dhoble, T. M. Sathe, Sunil Chamoli, Arunkumar H S, *Thermal Performance Intensification of Cam shaped tubes in staggered layout***,** Fifth International Conference on Computational Methods for Thermal Problems THERMACOMP2018, July 9-11, 2018, Indian Institute of Science, Bangalore, INDIA. (SCOPUS)

3. T. M. Sathe, A. S. Dhoble, S. S. Joshi, C. K. Mangrulkar, *Performance Analysis of Photovoltaic Thermal System Using Silicone Oil Spectrum Filter***,** 6th International conference on Advances in Energy Research (ICAER- 2017), 12-14 Dec 2017, at IITB. (SCOPUS)

4. C. K. Mangrulkar, A.S. Dhoble, T. M. Sathe, S.S.Joshi, *Thermal performance enhancement*

*in cross flow by vortex generators: A Review***,** 2nd International conference on Advances in

Mechanical Engineering (ICAME-2018), 22-24 March 2018, SRM University, Chennai.

(SCOPUS)

5. T. M. Sathe, A. S. Dhoble, C. K. Mangrulkar, S. S. Joshi, *Thermal management of*

*photovoltaic system using porous media***,** Fifth International Conference on Computational

Methods for Thermal ProblemsTHERMACOMP2018, July 9-11, 2018, Indian Institute of

Science, Bangalore, INDIA. (SCOPUS)

6. Arunkumar H S, C. K. Mangrulkar, Rahul Ikhar, Trushar Gohil, *Two-dimensional study of*

*Cylinder wake interaction with the flat plate boundary layer with RANS modelling*, 6th

International and 43rd National conference on Fluid Mechanics and Fluid Power, December

15-17, 2016, MNNITA, Allahabad, U.P., India.

7. Arunkumar H S, C. K. Mangrulkar, Trushar Gohil, *Vortex dynamics and elliptical structure*

*wake interaction in the proximity of wall using 2-D RANS simulation***,** International

Conference on Research in Mechanical Engineering Sciences (RIMES 2017), December 21,

2017, MIT Manipal, Karnataka, India. (SCOPUS)

8. C. K. Mangrulkar, J. D. Abraham, A.S. Dhoble, [*Numerical studies on the near wall y+ effect on heat and flow characteristics of the cross flow tube bank*](javascript:void(0))**,** 2nd International conference on New Frontiers in Engineering Science and Technology (NFEST-2019), 18-22 February 2019, NIT-Kurukshetra, India. (SCOPUS).