

LIST OF PUBLICATIONS

Faculty: Dr Surfarazhussain S Halkarni

Department of Mechanical Engineering

JOURNAL PUBLICATIONS

Influence of inserts on pressure drop distribution in randomly packed beds with uniform sized spheres – **Halkarni S. S**, Sridharan A., Prabhu S. V – Experimental Thermal and Fluid Sciences, Vol. 74, pp.181-194, (2016)

Estimation of volumetric heat transfer coefficient in randomly packed beds of uniform sized spheres with water as working medium – **Halkarni S. S**, Sridharan A., Prabhu S. V – International Journal of Thermal Sciences, Vol. 110, pp. 340-355, (2016)

Measurement of local wall heat transfer coefficient in randomly packed beds of uniform sized spheres using Infrared (IR) thermography and water as working medium – **Halkarni S. S**, Sridharan A., Prabhu S. V – Applied Thermal Engineering, 126, pp. 358-378, (2017)

Experimental investigation of effect random packing of uniform sized spheres inside concentric tube heat exchangers on heat transfer coefficient using water as working medium – **Halkarni S. S**, Sridharan A., Prabhu S. V – International Journal of Thermal Sciences, (Article in press: [org/10.1016/j.ijthermalsci.2018.05.023](https://doi.org/10.1016/j.ijthermalsci.2018.05.023)), (2018)

Local wall heat transfer coefficient measurement in a packed bed of cylinders using infrared (IR) thermography technique and application of random packing of cylindrical particles inside concentric tube heat exchangers with water as working medium – **Halkarni, S.S.**, Sridharan, A., Prabhu, S.V. – Heat and Mass Transfer/Waerme- und Stoffuebertragung. <https://doi.org/10.1007/s00231-019-02569-2>), (2019)

Influence of converging and diverging geometry on the pressure drop distribution in randomly packed beds – Jondhale, R., **Halkarni, S. S.**, Raykar, N. R., Sridharan, A., & Prabhu, S. V – Particulate Science and Technology. [org/10.1080/02726351.2020.1733153](https://doi.org/10.1080/02726351.2020.1733153)), (2020)

CFD study of convective heat transfer of water flow thro micro pipe with mixed constant wall temp and heat flux wall boundary conditions – Amjad Ali Pasha, Meshal Nuwaym Al-Harbi, **Surfarazhussain S. Halkarni**, Nazrul Islam, D. Siva Krishna Reddy, S. Nadaraja Pillai, Ufaith Qadiri – CFD Letters. [org/10.37934/cfdl.13.7.1326](https://doi.org/10.37934/cfdl.13.7.1326)), (2020)

Experimental and numerical investigations on the local wall heat transfer coefficient in a narrow packed bed with spheres – **Surfarazhussain S. Halkarni**, Arunkumar Sridharan & S.V.

Prabhu – International Journal of Ambient Energy. <https://doi.org/10.1080/01430750.2021.1994463>), (2021)

Simulation of time injection strategy for a finite miscible slice in porous media – **Surfaraz Halkarni** - Springer lecture notes in mech. (2022)

CONFERENCE PAPERS

Effect of inserts on pressure drop in packed bed of spheres - **Halkarni S. S**, Sridharan A., Prabhu S. V - 5th International and 41st National Conference on Fluid Mechanics and Fluid Power, IIT Kanpur, (2014). (Presented)

Measurement of volumetric heat transfer coefficient for water flow in packed bed of stainless steel spheres - **Halkarni S. S**, Sridharan A., Prabhu S. V - 1st International and 23rd National ISHMT-ASTFE Heat and Mass Transfer Conference, ISRO Trivandrum, (2015). (Presented)

Investigation of pressure drop for flow through packed beds of spheres in converging and diverging ducts - **Halkarni S. S**, Bansod N, Agarwal C, Kumawat S, Sisodia V, Sridharan A., Prabhu S. V - 1st International and 23rd National ISHMT-ASTFE Heat and Mass Transfer Conference, ISRO Trivandrum, (2015), (Presented)

Influence of Cone Angles on Pressure Drop in Packed Beds with Uniformed Sized Spheres in Converging and Diverging ducts - Jondhale R, **Halkarni S. S**, Raykar N.R, Sridharan A, Prabhu S. V - 6th International and 43rd National Conference on Fluid Mechanics and Fluid Power, MNNIT Allahabad, (2016). (Accepted)

Investigation of fluid flow and Heat transfer characteristics in a simple porous media (Randomly packed bed of spheres) - **Halkarni S. S**, Sridharan A., Prabhu S. V - INTERPORE: Flow and Transport in Porous Media Symposium, International Porous Media Society, IIT Delhi, (2017), (Presented)

Estimation of Heat Transfer Coefficient in Concentric Tube Heat Exchangers with Random Packing of Spheres Inside Both Pipes - **Halkarni S. S**, Sridharan A., Prabhu S. V - 2nd International and 24th National ISHMT-ASTFE Heat and Mass Transfer Conference, BITS Pilani Hyderabad campus, (IHMTTC-2017), (2017), (Accepted)