

PUBLICATIONS

Thermodynamique, transfert de chaleur et de masse, pertes de charges, réfrigérants, expérimentation, modélisation.

1. Evaporation du réfrigérant HFC 407C sur des tubes lisses ou à surface améliorée, Olivier Zürcher, Daniel Favrat, John R. Thome, Nakhlé Kattan, Eric Nidegger, Office fédéral de l'énergie (OFEN), Rapport final, Novembre 1996.
2. Local Flow Boiling and Pressure Drop Measurements for R134a/Oil Mixtures, Part 2: Evaporation in a Plain Tube, Olivier Zürcher, John R. Thome, Daniel Favrat, HVAC&R Research, Vol 3, Number1, pp. 54-64, January 1997.
3. Flow Boiling of Ammonia in Smooth and Enhanced Horizontal Tubes, O. Zürcher, J.R. Thome, D. Favrat, Compression Systems with Natural Working Fluids, IEA Annex 22 Workshop, Gatlinburg, TN, USA, October 2-3, 1997.
4. In-Tube Flow Boiling of R-407C and R-407C/Oil Mixtures Part I : Microfin Tube, Olivier Zürcher, John R. Thome, Daniel Favrat, HVAC&R Research, Vol 4, Number4, pp. 347-372, October 1998.
5. In-Tube Flow Boiling of R-407C and R-407C/Oil Mixtures Part II : Plain Tube Results and Predictions, Olivier Zürcher, John R. Thome, Daniel Favrat, HVAC&R Research, Vol 4, Number4, pp. 373-400, October 1998.
6. An Onset of nucleate boiling criterion for horizontal flow boiling, Olivier Zürcher, John R. Thome, Daniel Favrat, International Journal of Thermal Sciences, Elsevier, July 2000.
7. Contribution to the heat transfer analysis of natural and substitute refrigerants evaporated in a horizontal tube, Olivier Zürcher, Thèse No 2122 (<https://infoscience.epfl.ch/record/32598>), Ecole Polytechnique Fédérale de Lausanne, EPFL, mars 2000..
8. Development of a diabatic two-phase flow pattern map for horizontal flow boiling, O. Zürcher, D. Favrat, J.R. Thome, International journal of Heat and Mass Transfer 45, Elsevier, April 2001.
9. Evaporation of refrigerants in a horizontal tube : an improved flow pattern dependent heat transfer model compared to ammonia data, O. Zürcher, D. Favrat, J.R. Thome, International journal of Heat and Mass Transfer 45, Elsevier, April 2001.

Hydraulique

10. Steuerplatte für Hydromotoren und -pumpen vom Axialkolbentyp sowie Verfahren zu ihrer Herstellung, Ing., Liebherr Machines Bulle SA, Bundesrepublik Deutschland, Deutsches Patent- und Markenamt, 2003.

Pharma

11. Targeted heat activation of HSP promoters in the skin of mammalian animals and humans, Richard Voellmy, Olivier Zürcher, Manon Zürcher, Pierre A. de Viragh, Alexis K. Hall, Stephen M. Roberts, Cell Stress and Chaperones (<https://link.springer.com/article/10.1007/s12192-018-0875-4>), février 2018 2015.