

Asst.Prof.Dr.JATUPORN KAEW-ON

ผศ.ดร.จตุพร แก้วอ่อน

Education

- Ph.D. (Energy Technology), JGSEE, KMUTT, 2011
- M. Phil. (Energy Technology), JGSEE, KMUTT, 2003.
- B. Eng. (Mechanical Engineering), KMUTT, 1998



Asst.Prof.Dr.JATUPORN KAEW-ON

Research Interest

- Thermodynamics - Heat Transfers
- Fluid Mechanics - Multiphase flows

Research Groups/ Professional

- Thermal Fluids Laboratory, (TFL)
- License for Professional Practice: Associate Mechanical Engineer: (รก.19830)
- ASME Member 100320384

Publications

International Journal

1. **Kaew-On, J.**, Naphattharanun, N., Binmud, R., Wongwises, S., (2016) Condensation heat transfer characteristics of R134a flowing inside mini circular and flattened tubes, International Journal of Heat and Mass Transfer 102 , 86-97
2. Sakamatapan, K., **Kaew-On, J.**, Dalkilic, A., Mahian, O., Wongwises, S., (2013) Condensation heat transfer characteristics of R-134a flowing inside the multiport minichannels, International Journal of Heat and Mass Transfer 64 , 976–985
3. Saisorn S., **Kaew-On, J.**, Wongwises, S., (2013) An experimental investigation of flow boiling heat transfer of R-134a in horizontal and vertical mini-channels, Experimental Thermal and Fluid Science 46, 232-244.
4. Chingulpitak, S., **Kaew-On, J.**, Wongwises, S., Numerical and Experimental Investigation of the Flow Characteristics of R134a Flowing Through Adiabatic Helical Capillary Tubes, International Journal Air-Conditioning and Refrigeration, 20 (4), 1-11
5. **Kaew-on, J.**, Wongwises, S., (2012), New proposed two-phase multiplier and heat transfer coefficient correlations for multiport minichannel of R134a during

evaporation at low mass fluxes, International Communication in Heat and Mass Transfer 39, 853-860

6. **Kaew-On, J.**, Chingulpitak, S., Wongwises, S., (2012), Experimental investigation of R134a flowing through adiabatic helically coiled capillary tube, International Journal of Air-Conditioning and Refrigeration 20,1-11
7. **Kaew-on, J.**, Sakamatapan, K., Wongwises, S., (2012), Flow Boiling Pressure drop of R-134a in the Counter Flow Multiport Minichannels Heat Exchangers. Experimental Thermal and Fluid Science 36, 107-117.
8. **Kaew-on, J.**, Sakamatapan, K., Wongwises, S., (2011), Flow Boiling Heat Transfer of R-134a in a Multiport Minichannel Heat Exchanger. Experimental Thermal and Fluid Science 35, 364-374.
9. Wongwises, S., Laohalertdecha, S., Kaew-On, J., Duangthongsuk, W., Aroonrat, K., Sakamatapan, K., (2011), Evaporation heat transfer and flow characteristics of R-134a flowing through internally grooved tubes. Heat and Mass Transfer, 47 (6), 629-640.
10. Saisorn, S., **Kaew-on, J.**, Wongwises, S. (2010), Flow pattern and heat transfer characteristics of R-134a during flow boiling in a horizontal circular mini-channel. International Journal of Heat and Mass Transfer, 53, 4023-4038.
11. Laohalertdecha, S., **Kaew-On, J.**, Wongwises, S., (2010), The Effect of the Electrohydrodynamic on the Two-Phase Flow Pressure Drop of R-134a during Evaporation inside Horizontal Smooth and Micro-Fin Tubes. Heat Transfer Engineering, 31, 108 -118
12. **Kaew-on, J.**, Wongwises, S., (2009)., Experimental investigation of evaporation heat transfer coefficient and pressure drop of R-410A in a multiport mini-channel. International Journal of Refrigeration 32, 124-137.

Proceedings of International Conference

1. **Kaew-on, J.**, Nakkaew, S., Wongwises., Single-phase heat transfer in the straight and helically coiled tubes. Proceedings of the 11th International ASME Conference on Nanochannels, Microchannels and Minichannels, ICNMM2013, June 16-19, 2013, Sapporo, Japan.
2. **Kaew-on, J.**, Wongwises., Single-phase heat transfer in a multiport minichannel tube-in-tube heat exchanger. Proceedings of the 10th International ASME Conference on Nanochannels, Microchannels and Minichannels, July 8-12, 2012, Puerto Rico, USA.
3. **Kaew-On, J.**, Nilpueng, K., Chingulpitak, S., Wongwises, S., An experimental study of the flow phenomena of R134a flowing through a capillary tube, Proceedings of the

8th International ASME Conference on Nanochannels, Microchannels and Minichannels, ICNMM2010, August 1-5, 2010, Montreal, Canada.

4. Saisorn, S., **Kaew-On, J.** Wongwises, S., (2010)., Flow boiling heat transfer characteristics of R134a in horizontal and vertical minichannels, Proceedings of the 8th International ASME Conference on Nanochannels, Microchannels and Minichannels, ICNMM2010, August 1-5, 2010, Montreal, Canada.
5. **Kaew-on, J.**, Wongwises., Experimental study of evaporation heat transfer characteristics and pressure drops of R410A and R134a in a multiport minichannel. Proceedings of the 7th International ASME Conference on Nanochannels, Microchannels and Minichannels, ICNMM2009, June 22 -24, 2009, Pohang, South Korea.