Shixian Liu

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https://lyushisyan.github.io/

Education

2023 – now **Ph.D. student in Thermal physics and theoretical thermal engineering**
Bauman Moscow State Technical University
Research interest: Thermophysical Properties of Nanosystems

2021 – 2023 **M.S. in Nuclear Energy and Thermophysics**
Bauman Moscow State Technical University
Thesis title: *Developing kinetic models for calculating the thermophysical properties of low-dimensional structures*

2017 – 2021 **B.S. in Nuclear Engineering and Nuclear Technology**
North China Electric Power University & Moscow Power Engineering Institute
Thesis title: *Analysis of experiments on the hydrodynamics of a horizontal steam generator using the code STEG*

Research Publications

Journal Articles

1. S. Liu, A. A. Barinov, F. Yin, and V. I. Khvesyuk, "Determination of thermal properties of unsmooth si nanowires," *Chinese Physics Letters*, vol. 41, no. 1, p. 016 301, 2024.
2. S. Liu, F. Yin, V. I. Melikhov, and O. I. Melikhov, "Validation of the steg code using experiments on two-phase flow across horizontal tube bundles," *Nuclear Engineering and Design*, vol. 399, p. 112 048, 2022. DOI: 10.1016/j.nucengdes.2022.112048.

Conference Proceedings

1. S. Liu and A. A. Barinov, "Influence of surface morphology on the effective thermal conductivity of nanowires," in Russian, in *Topical issues of thermophysics and physical hydrogasdynamics*, 2023, pp. 78–83.
2. S. Liu and A. A. Barinov, "Calculation of the thermal conductivity of silicon nanowires taking into account boundary effects," in Russian, in *Proceedings of the Eighth Russian National Conference on Heat Transfer*, 2022, pp. 287–290.

Skills

Languages Chinese, English, Russian.
Coding Matlab, Fortran.