

Yurii S. Prikhodko

Lecturer

Department: Industrial Heat Power Engineering

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h-index: RSCI 1 Scopus 1 Web of Science 0

Foreign languages: English

Education:

BSc (Bachelor Degree) Industrial heat power engineering department, School of power engineering, South Ural State University, Chelyabinsk, the Russian Federation, 2017

MSc (Master's Degree) Industrial heat power engineering department, School of power engineering, South Ural State University, Chelyabinsk, the Russian Federation

Diploma Thesis: «Optimization of combustion of coal-water fuel technology», 2019

Professional experience:

2017-2019 Engineer, LLC "Arkhon", Chelyabinsk

Teaching experience:

3.1. Undergraduate courses

2017-2019	Gas supply for Heat Power Engineering. Practical classes and seminars
2017-2019	Heat pumps. Practical classes and seminars

3.2. Graduate and Postgraduate courses

2017-2019	Heat and mass transfer devices in the power industry. Practical classes and seminars
2017-2019	Technological complexes. Practical classes and seminars

3.3. Lab classes

2017-2019	Study of heat transfer in heat pump stations
2017-2019	Study of hydraulics of liquid flows. Fluid dynamics.

Research interests:

Mathematical modeling of thermal processes



Achievements:

The best report certificate at the conference "Energy and Resource Saving" in 2016

Major publications in Scopus-indexed journals:

1. Mathematical modeling of rotary kiln operation in order to reduce fuel consumption

IOP Conference Series Materials Science and Engineering 560:012080

DOI: 10.1088/1757-899X/560/1/012080

K.V. Osintsev, I S Prikhodko

2. Mathematical modeling to optimize the operation of a tubular oil heating furnace

IOP Conference Series Materials Science and Engineering 560:012081

DOI: 10.1088/1757-899X/560/1/012081

K.V. Osintsev, I.S. Prikhodko

3. Environmentally Friendly Organic Rankine Cycle Technology Based on Improved Absorption Refrigerating Machine

DOI: 10.2991/ciggg-18.2019.45

Conference: Proceedings of the VIII Science and Technology Conference "Contemporary Issues of Geology, Geophysics and Geo-ecology of the North Caucasus" (CIGGG 2018)

K.V. Osintsev, M.M. Dudkin, Iu.S. Prikhodko, S.I. Kuskarbekova

4. Data-factor-analysis-based methods applied for improving energy efficiency of air handling unit

IOP Conference Series Earth and Environmental Science 194(5):052019

DOI: 10.1088/1755-1315/194/5/052019

K.V. Osintsev, I S Prikhodko, M I Zavyalova

Participation in conferences

1. Energy and resource saving in the power system and social sphere: materials of the International scientific and technical conference of students, graduate students, scientists. 2019.

Study of a method for increasing the energy efficiency of boiler equipment

Mordvinova O.O., Babikova D.I., Prikhodko Yu.S., Sovetkhan K.S., Almabek B.E.

2. Energy and resource saving in the power system and social sphere: materials of the International scientific and technical conference of students, graduate students, scientists. 2019.

Generator cooling system using a chiller in a water circuit

Osintsev K.V., Dudkin M.M., Prikhodko Yu.S.

3. IOP Conference Series Earth and Environmental Science 2019

Increasing efficiency of boiler unit by installation of gas-piston micro central heat power plant

K.V. Osintsev, I S Prikhodko, V O Pashnin

