

	Авторы	Название статьи
1	Irek Davletshin Anton Paereliy, Ilnur Gazizov	Heat transfer in a pulsating flow in a converging channel
2	Roman S. Volkov, Alyona O. Zhdanova, Geniy V. Kuznetsov, and Pavel A. Strizhak	Movement of water droplets in a layer of thermally decomposable forest fuel
3	Aleksandr Borisov, Aleksandr Nazarov, Anatoly Serov, and Valery Mamonov	Suspended nanofluid droplet evaporation
4	Maksim Alekseev, Ivan Vozhakov, Sergey Lezhnin and Nikolay Pribaturin	The effect of outflowing water coolant with supercritical parameters on a barrier
5	Pavel Lobanov, Akeksandr Kurdyumov, and Aleksandr Svetonosov	Heat transfer of bubbly flow on inner wall of annular channel
6	Maksim Makarov and Sofya Makarova	Numerical modeling of energy-separation in cascaded Leontiev tubes with a central body
7	Antoly Serov, Aleksandr Nazarov and Valery Mamonov	Experimental investigation of rotation resistance moment energy spectra in multicylindrical circular Couette system with independently rotating cylinders
8	Evgeniy Prokhorov	Modeling of detonation transition through the field of mixing the reacting and inert gases
9	Eduard V. Usov, Pavel D. Lobanov, Oleg N. Kashinskiy, Nikolai A. Pribaturin, Nastasya A. Mosunova, Vladimir I. Chuhno, Alexander E. Kutlimetov and Alexander I. Svetonosov	Some approaches to numerical modelling of a phenomenon observed during steam generator tube rupture in the reactor with liquid metal coolant
10	Akhmedagaev Ruslan and Listratov Yaroslav	Direct numerical simulation of Mhd heat transfer of the liquid metal in a horizontal pipe with the joint effect of the longitudinal magnetic field and thermo-gravitational convection
11	A.S. Anshakov, E.S. Butakov, P.V. Domarov, A.E. Urbakh, and V.A. Faleev	Plasma-thermal electric furnace for gasification of carbon-containing waste
12	Valery Artemov, Maksim Makarov, Georgiy Yankov and Konstantin Minko	Numerical algorithm improvements for the CFD-code ANES for turbulent flow simulations via the LES method
13	Ella Barakhovskaia and Igor Marchuk	Surface tension determination using data of the evolution of thermocapillary deformations in a locally heated liquid layer
14	Nikolaj Barbin, Anton Kobelev, Dmitriy Terent'ev and Sergej Alekseev	Thermophysical characteristics of radioactive graphite – water vapor system
15	German Bartkus	Experimental study of gas-liquid flow local characteristics in rectangular microchannel
16	Dmitry Bibikov, Anton Polei, Konstantin Shtym, and Konstantin Tsoi	Experience of operation of the gas turbine units in Russky Island
17	Elena M. Bochkareva, Vladimir V. Terekhov, Aleksandr A. Borisov and Nikolay B. Miskiv	An experimental and theoretical study of the evaporation of non-ideal solutions droplets
18	Elena Bochkareva, Igor Igumenov, and Vladimir Lukashov	The Experimental Investigations of Peculiarities of Metalorganic Compounds Sublimation
19	Konstantin Borynyak and Michael Hrebtov	Large-scale structures in a stratified open channel flow
20	Evgenii Butakov, Anatoly Burdukov, and Artem Kuznetsov	Investigation of combustion and gasification mechanically activated coal fuel of various degrees of metamorphism on the 5-MW heat setup
21	Aleksey Bychkov, Ekaterina Podgorbunskikh, Tatiana Skripkina, Anatoly Burdukov, and Oleg Lomovsky	Mechanochemical modification of the composition and structure of plant raw materials to control the combustion of alternative fuel
22	Andrey Chernyavskiy and Aleksandr Pavlenko	Numerical simulation of heat transfer in falling wavy liquid films on unsteady heat release
23	Dmitry Dekterev, Dmitry Platonov, Andrey Minakov, Alexandra Maslennikova and Artem Abramov	An experimental study of the influence of pressure pulsations in the water turbine flow path on vibration parameters of the hydraulic unit
24	Sergey Dimov, Ol'ga Gasenko	Catalytic combustion and steam reforming of hydrocarbons in microreactor
25	Igor Donskoy, Aleksandr Kozlov, and Vitaliy Shamanskiy	Influence of volatiles oxidation processes on kinetics of sawdust combustion
26	Nikolay Dushin, Nikolay Mikheev, Irek Davletshin, Anton Paereliy, Olga Dushina	The effect of hydrodynamic flow unsteadiness on heat transfer enhancement in a channel with square ribs
27	Alexey Emel'yanov, Alexey Rebrov and Ivan Yudin	Synthesis of diamond structures from the coaxial flows of H2 and H2+CH4 mixture
28	Elizaveta S. Gesheva, Sergey I. Shtork, and Sergey V. Alekseenko	Investigation a single-spiral vortex in a swirl flow
29	Marat Goldfeld	Experimental investigation of open cavity as flame holder of supersonic combustor
30	Dmitriy Guzei, Andrey Minakov, Maxim Pryazhnikov, and Konstantin Meshkov	Investigating the forced convection of magnetic nanofluids
31	I. K. Kabardin, V.G. Meledin, N.I. Yavorsky, V.A. Pavlov, M.Kh. Pravdina, D.V. Kulikov, and V.I. Polyakova	Comparing Ranque tubes of circular and square cross section
32	Pavel Karpov, Nikolay Miskiv, Anatoly Serov	Characteristics of the behavior of a liquid film in a pulsed gas-droplet flow
33	Oleg Milman, Sergey Lenev, Pavel Golov, Boris Shifrin, Anna Kartuesova	Aerodynamic numerical calculations of air-cooled condensers and dry cooling towers at different wind velocities and multilevel configuration of sections
34	Artem A. Khalatov, Nadiia A. Panchenko and Sergey D. Severin	Flat plate film cooling at the coolant supply into triangular and cylindrical craters
35	Anatoly Kiryashkin, and Alexey Kiryashkin	Crystallization Differentiation of Melt in the Mushroom-Shaped Plume Head
36	Anatoly Kiryashkin, Alexey Kiryashkin, and Vladimir Gurov	Heat and Mass Transfer in the Mushroom-Shaped Head of Mantle Plume
37	Knyazeva Anna and Travizkii Nahum	Modeling of exothermic synthesis of composite with oxide inclusions
38	Igor Anufriev, Sergey Arsenyev, Mikhail Vigriyanov, Evgeny Kopyev, and Oleg Sharypov	Burning of substandard liquid hydrocarbons with steam gasification
39	Alexander Korotkikh, Vladimir Arkhipov, Konstantin Slyusarskiy, and Ivan Sorokin	Ignition study of high-energy materials containing Al, B, AlB2 and TiB2 powders
40	Aleksey Gnyria, Sergey Korobkov, Anton Koshin, and Victor Terekhov	Aerodynamic and thermal interference of turbulent separated flows over building models
41	Igor Kozulin	Experimental investigation of explosive vaporization of liquids on the flat microheater
42	Nikolay Kozyulin, Maxim Bobrov, and Michael Hrebtov	Numerical simulation of the turbulence effect on heat transfer between fluid and thin plates of a solid material

43	Denis Krasinsky	Numerical study of aerodynamics and brown coal combustion in the vortex furnace with air excess variation
44	Victor Kulik, Andrey Boiko and Inwon Lee	The influence of the thickness of monolithic compliant coatings on the skin friction drag
45	Viktor Kuznetsov, Mikhail Chernetskiy, Nikolay Abaimov, Alexandr Ryzhkov	Study of the two-stage gasification process of pulverized coal with a combined countercurrent and concurrent flow system
46	Artem Kuznetsov, Evgenii Butakov, Anatoly Burdukov, Egor Yaganov	Studies of ignition and combustion of coals subjected to electrochemical activation
47	Vladimir V. Kuznetsov	Multiscale processes of the flow and non-equilibrium interphase heat and mass transfer self-organization in multiphase systems
48	Vadim Lemanov, Ziedillo Khazhiev	Heat transfer at a stagnation point of impinging round air jet at low Reynolds numbers
49	Anatoliy Levin, Polina Khan	Bubble departure diameter at transient heat release
50	Sergey Lezhnin, Maksim Alekseev, Ivan Vozhakov, and Nikolay Pribaturin	Modeling the outflow of liquid with initial supercritical parameters using the relaxation model for condensation
51	Ivan Litvinov, Evgeny Gorelikov, and Sergey Shtork	Regimes with periodical pressure pulsation in Francis draft tube
52	Alexander Lobasov, and Andrey Minakov	Density effect on the mixing efficiency and flow modes in T-shaped micromixers
53	Vladimir V. Lukashov, Vladimir V. Terekhov	Features of flame stabilization in near wall flows
54	Danila Makarushkin, Yuri Kirsanov, Andrey Yudakhin, and Alexandr Kirsanov	Analytical model of unsteady-state convective heat transfer between the heat carrier and the finite sizes plate adjusted for the thermal relaxation
55	Aleksei Evseev, Leonid Maltsev	Features of reducing the turbulent friction of a liquid on the channel wall by gas-saturation
56	Dmitrii Marakasov, Valentina Sazanovich, Ruvim Tsyvk, and Andrei Shesternin	Transformation of spectra of refraction index fluctuations in axisymmetric supersonic jet with the increase in the distance from the nozzle
57	Evgeny Maslov, Irina Zharova, Evgeny Kozlov, Valery Faraponov, Nadezhda Savkina, Nikolay Zolotarev, Vladislav Matskevich	Experimental study of flow around axisymmetric bodies in supersonic flow in case of a local injection into the boundary layer
58	Ruslan Medvedev, and Dmitriy Churkin	An inductive RF discharge in water vapor for atomic-emission spectrometry
59	Nikolay Mikheev and Ilya Saushin	Estimating the terms of turbulent kinetic energy transport equation in an unsteady flow on the basis of SIV measurements
60	Andrey Minakov, Dmitry Platonov, Alexandra Maslennikova and Dmitry Dekterev	Experimental study of the effect of air injection on the pressure pulsations in the hydro turbine flow path under different operating conditions
61	Olga Mitrofanova	Generation of deterministic eddy structure of the flow as an analogue of the phase transition of the second kind. Development of ideas of academician I. I. Novikov
62	Andrey Mityakov, Aleksandr Babich, Aleksandr Bashkatov, Andrey Gusakov, Aleksey Dymkin, Elza Zainullina, Sergey Sapozhnikov, Vladimir Mityakov and Vladimir Seroshtanov	Investigating heat transfer augmentation using gradient heat flux measurement and PIV method
63	Mikhail Moiseev, Vladimir Zhukov	Study on dynamics and structure of evaporation front in ethanol depending on pressure and subcooling
64	Valery Molochnikov1, Alexander Mazo, Dmitriy Okhotnikov and Anna Goltsman	Mechanism of transition to turbulence in a circular cylinder wake in a channel
65	Sergey Morozov, Sergey Lukashevich and Alexander Shiplyuk	Experimental investigation of the influence of the passive porous coating on laminar-turbulent transition of the hypersonic boundary layer of the sharp cone at angles of attack
66	Nail Musakaev, and Stanislav Borodin	Numerical Research of the Gas Hydrate Dissociation to Gas and Ice in a Reservoir during the Gas Extraction
67	Nail Musakaev, and Stanislav Borodin	To the Question of the Interpolation of the Phase Equilibrium Curves for the Hydrates of Methane and Carbon Dioxide
68	Anatoliy Orishich, Victor Shulyatyev, Alexander Golyshev and Alexander Malikov	Thermophysical problems of laser cutting of metals
69	E. Palkin, M. Shestakov, R. Mullyadzhanov, D. Markovich, and K. Hanjalic	Flow around a confined cylinder: LES and PIV study
70	Dmitry Platonov, Andrey Minakov, and Dmitry Dekterev	The study of the influence of stabilizing devices on the pressure pulsations at the free discharge of water through the turbine
71	Boris Pokusaev, Andrey Vyazmin, Sergey Karlov, Dmitry Nekrasov and Dmitry Skladnev	Unsteady heat and mass transfer in gels, used as media for immobilizing micro bio-objects
72	Pavel Polivanov	Effect of blowing/suction through porous surfaces on boundary layer at supersonic Mach numbers
73	Vasily Poryazov, Aleksei Krainov, and Dmitry Krainov	A mathematical model of metallized solid propellant combustion under the changing pressure
74	Vasily Poryazov, Dmitry Krainov	Combustion of solid propellant with micron-sized Aluminium under the acceleration force
75	Olga Mitrofanova, and Irina Pozdeeva	Studying the thermal effect in a swirled acoustic flow
76	Maxim Pryazhnikov, Andrey Minakov, Dmitriy Guzei, and Vladimir Zhigarev	Studying thermal conductivity of magnetic nanofluids in constant magnetic field
77	Evgeniy Shadrin, Anatoliy Papulov	Flow structure diagnostics in a four-vortex furnace model using PIV-method
78	Igor Anufriev, Evgeniy Kopyev, and Evgeniy Shadrin	Investigating characteristics of liquid hydrocarbon spraying by a steam jet
79	Alisher Shamirzaev	An experimental investigation of flow boiling heat transfer of R-141b and R-1234yf in microchannels
80	Vadim Lemanov, Konstantin Sharov, Andrey Shumeiko1, and Nadezhda Gorinovich	Investigating the round air jet dynamics at low Reynolds numbers
81	Oleg Sharypov, Denis Krasinsky	On the shape of self-sustained evaporation front in a metastable liquid
82	V. I Velkin, C. E. Shcheklein, Hossain Ismail, A Nikitin, and G.Chikansev	Investigation of the effect of passive vortex inserts of different geometrical shapes on the vibrations reduction efficiency in pipelines with two-phase flow
83	Mikhail Shilyaev, Elena Khromova, and Aleksandr Bogomolov	Heat and mass transfer process modeling in the packing columns and tubular absorbers
84	Sergey Skripkin, Mikhail Tsoy, Pavel Kuibin and Sergey Shtork	Vortex rope patterns at different load of hydro turbine model

85	Alexander G. Korotkikh, Konstantin V. Slyusarskiy, Ivan V. Sorokin	Studying solid fuel ignition by CO ₂ -laser
86	Yuliya Smorchkova , Alexander Varava, Alexey Dedov, Alexander Zakharenkov, Alexander Komov, and Alexander Borozdin	Investigation of flow parameters in a cylindrical pebble bed and in a model of a fuel assembly with microfuels
87	Vladimir Borodulin, Vladimir Letushko, Michail Nizovtsev, and Alexey Sterlyagov	Experimental study of water evaporation of sessile droplets on a solid substrate with different thermal conductivities
88	Emir Tairov , and Polina Khan	A polytropic model of a critical two-phase flow in a bed of spherical particles
89	Elena Yu. Temnikova, Alexander R. Bogomolov, and Alexey A. Lapin	Unburnt carbon and iron content in the ash and slag thermal power plants
90	Leonid Timkin and Roman Gorelik	Wall shear stress from a single almost spherical and a Taylor bubbles in laminar upward tube flow
91	Leonid Tonkov and Alena Chernova	Generation and development of surface waves on the interface boundary of viscous fluid oscillating drop
92	Aleksandr Fedorov and Dmitry Tropin	Physical and mathematical modeling of ignition of methane-air mixture in the presence of coal microparticles
93	Maksim Vorobyev, Oleg Kashinsky, and Pavel Lobanov	The distribution of the gas phase in the bubble flow in the vertical assembly of 3x3 rods with gas injection from a single source
94	Yuri Vyazov, Pavel Votinov, and Igor Yarygin	Near-wall liquid film outflow of water-ethanol mixture from cylindrical channel into vacuum
95	Boris M. Kaganovich, Maxim S. Zarodnyuk, and Sergey V. Yakshin	Thermodynamic analysis of environmental problems of energy
96	Aleksey Yatskikh, Marina Rumenskikh, Yury Yermolaev, Aleksandr Kosinov and Nikolay Semionov	Excitation of Localized Wave Packet in Swept-Wing Supersonic Boundary Layer
97	Mikhail Plotnikov, Alexey Rebrov, Ivan Yudin	Modeling the flow of activated H ₂ + CH ₄ mixture by deposition of diamond nanostructures
98	Aleksandr Pavlenko , Vladimir Zhukov, Nikolay Pecherkin, Aleksandr Nazarov, Xingang Li, Mingyan Liu, Hong Sui and Hong Li	Effect of the structured packing height on efficiency of freons mixture separation in a large-scale model of distillation column
99	Vladimir Zhukov, Mikhail Moiseev	Dynamics of propagation of the self-sustaining evaporation front in a mixture of Freons under the natural convection conditions
100	Victor Terekhov, Jaroslav Smulsky, Konstantin Sharov, and Alexey Zolotukhin	Flow structure in a flat channel with honeycomb surfaces
101	Natalya Fedorova, and Marat Goldfeld	Numerical and experimental study of supersonic combustion chamber at entrance Mach number 4. Part 1: Non-reacting flow
102	Alexey Yu. Krainov and Ksenia M. Moiseeva	Mathematical modelling of sparkplug ignition of a coal-dust monodisperse suspension in a methane-air mixture
103	Igor Igumenov, Maksim Makarov, and Sofya Makarova	Heat and mass transfer at sublimation of a single chromium (III) and zirconium (IV) β -diketonate particle in the inert gas mixture
104	Anatolii V. Korobeinikov, and Sergey A. Shevyrev	Low-temperature purification of the synthesis gas
105	Robert Stepanov, and Sergey Mikhailov	Experimental investigation of main rotor wake
106	Anna Aksenova, Vladimir Chudanov, Alexey Leonov and Artem Makarevich	Direct numerical simulation of two-phase gas dynamic flows with phase transition for water and for liquid sodium
107	Lyudmila Perepechko, Eugene Romenski, Galina Reshetova, Sergey Kireev, and Yury Perepechko	Modeling the multiphase flows in deformable porous media