

No	Section	Authors	Title	Примечание
1	Plenary lectures	Y G Yevtushenko, A Y Gorchakov and V M Goloviznin	Fast automatic differentiation in problems variations four-dimensional data assimilation (4Dvar)	Принята к публикации
2	Plenary lectures	D E Igoshin, A S Gubkin, P A Ignatev and A A Gubaidullin	Permeability calculation in periodic porous medium based on rhombohedral structure	Принята к публикации
3	Plenary lectures	A V Dedov	Enhancing the boiling heat transfer	Принята к публикации
4	Plenary lectures	G K Korotaev	Nonlinear response of a coastal jet to an intense storm	Принята к публикации
5	Plenary lectures	V V Kuznetsov	Multiscale structure of gas-liquid flow and interfacial heat and mass transfer in complex channel systems	Принята к публикации
6	Plenary lectures	N I Mikheev, N S Dushin, I M Gazizov	Heat transfer and turbulent characteristics in a pulsating flow	Принята к публикации
7	Plenary lectures	P A Ralnikov, N A Abaimov, A F Ryzhkov	Investigation of coal entrained-flow gasification in O ₂ -CO ₂ mixtures for oxy-fuel IGCC	Принята к публикации
8	1. Heat transfer and hydrodynamics in single phase flows	I A Belyaev, D A Biryukov, P A Sardov, N G Razuvanov, E V Sviridov and V G Sviridov	Temperature fluctuations in a MHD flow of a liquid metal in a vertical hot pipe	Принята к публикации
9	1. Heat transfer and hydrodynamics in single phase flows	Y A Gataulin, A D Yukhnev, and D A Rosukhovskiy	Fluid–structure interactions modeling the venous valve	Принята к публикации
10	1. Heat transfer and hydrodynamics in single phase flows	O M Heinz, D G Arkhipov, I S Vozhakov, V V Guzanov	Evolution of three-dimensional waves on vertically falling liquid films. Comparison between calculations and experiment	Принята к публикации
11	1. Heat transfer and hydrodynamics in single phase flows	A E Goltsman, I I Saushin	Mechanism of turbulence generation in the logarithmic region of the boundary layer affected by the adverse pressure gradient	Принята к публикации
12	1. Heat transfer and hydrodynamics in single phase flows	Y V Gromyko, D A Bountin, P A Polivanov, and A A Maslov	Study of the transition position on blunted bodies with roughness at M = 6	Принята к публикации
13	1. Heat transfer and hydrodynamics in single phase flows	I A Davletshin, A A Paereliy	Heat transfer enhancement in pulsating flow in converging channel	Принята к публикации

14	1. Heat transfer and hydrodynamics in single phase flows	E I Borzenko and O A Dyakova	Power-law fluid flow in a T-shaped channel with slip boundary conditions on the solid walls	Принята к публикации
15	1. Heat transfer and hydrodynamics in single phase flows	Tatyana Dyakonova, Alexander Khoperskov	Flow resistance in a variable cross section channel within the numerical model of shallow water	Принята к публикации
16	1. Heat transfer and hydrodynamics in single phase flows	A R Zabiroy, P K Kanin, M M Vinogradov, and A M Sharafutdinov	Factors affecting quenching in cryogenic liquids	Принята к публикации
17	1. Heat transfer and hydrodynamics in single phase flows	V Ivashchenko, V Ryzhenkov, and R Mullyadzhanov	Large-eddy simulations of variable-density turbulent jets	Принята к публикации
18	1. Heat transfer and hydrodynamics in single phase flows	Y I Listratov, N A Tyalina	Direct numerical simulation of mixed convection of a liquid metal in the vertical rectangular channel	Принята к публикации
19	1. Heat transfer and hydrodynamics in single phase flows	M S Makarov, S N Makarova, and V S Naumkin	Energy separation efficiency of air and helium-xenon mixture flowing in the single Leontiev tube with ribbed wall	Принята к публикации
20	1. Heat transfer and hydrodynamics in single phase flows	A D Mamykin, I V Kolesnichenko, A M Pavlinov, and R I Khalilov	Large scale circulation in turbulent Rayleigh-Benard convection of liquid sodium in cylindrical cell	Принята к публикации
21	1. Heat transfer and hydrodynamics in single phase flows	M S Makarov, S N Makarova, V S Naumkin	Heat transfer in helium-xenon mixture flowing in straight and twisted tubes with square cross-section	Принята к публикации
22	1. Heat transfer and hydrodynamics in single phase flows	V M Molochnikov, A B Mazo, D I Okhotnikov, E I Kalinin and A V Malyukov	Influence of forced flow pulsations on heat transfer behind a rib in a channel in transitional flow regimes	Принята к публикации
23	1. Heat transfer and hydrodynamics in single phase flows	V V Nikulin and R A Panenko	Experimental observation of turbulent exchange between vortex ring and surrounding medium of different density	Принята к публикации
24	1. Heat transfer and hydrodynamics in single phase flows	I V Shevchenko, S K Osipov, A N Vegera, and I I Komarov	Cooling efficiency of gas turbine blade leading edge with a closed whirler	Принята к публикации
25	1. Heat transfer and hydrodynamics in single phase flows	V O Kindra, A N Rogalev, S K Osipov and I V Shevchenko	Development and experimental study of the high efficient flow turbulators for heat transfer enhancement in heat exchangers	Принята к публикации
26	1. Heat transfer and hydrodynamics in single phase flows	T V Poplavskaya and S V Kirilovskiy	Numerical study of the influence of a single roughness element on development of disturbances in a hypersonic boundary layer on a blunted cone	Принята к публикации

27	1. Heat transfer and hydrodynamics in single phase flows	A I Reshetova, T V Poplavskaya, S V Kirilovskiy, and I S Tsyurulnikov	Modeling of interaction of long-wave disturbances with a shock wave on a flat plate with allowance for real gas effects	Принята к публикации
28	1. Heat transfer and hydrodynamics in single phase flows	K Ryltseva and G Shrager	Non-isothermal flow of power-law fluid in a pipe with sudden expansion	Принята к публикации
29	1. Heat transfer and hydrodynamics in single phase flows	A A Barinov, S M Dmitriev, A A Dobrov, D V Doronkov, A E Khrobostov, A N Pronin, A V Ryazanov, D N Solntsev and O S Zorina	Description of the experimental studies of coolant mixing flows in the reactor pressure vessel	Принята к публикации
30	1. Heat transfer and hydrodynamics in single phase flows	M V Filippov, I A Chokhar, V V Terekhov	The influence of the jets configuration on the intensity of their mixing	Принята к публикации
31	1. Heat transfer and hydrodynamics in single phase flows	V A Kot	A new look at the integral methods for solving heat and mass transfer problems	Принята к публикации
32	2. Hydrodynamics and heat and mass transfer in multiphase flows	V R Belosludov, Yu Yu Bozhko, K V Gets, O S Subbotin and Y Kawazoe	Clathrate hydrates for energy storage and transportation	Принята к публикации
33	2. Hydrodynamics and heat and mass transfer in multiphase flows	A Basalaev, E Borzenko and G Shrager	Filling of a circular pipe with a viscous fluid accounting for the surface tension forces	Принята к публикации
34	2. Hydrodynamics and heat and mass transfer in multiphase flows	R A Dekhtyar, E Yu Slesareva, and V V Ovchinnikov	Experimental investigation of interaction between rising vapor bubbles on a vertical heater in acetone	Принята к публикации
35	2. Hydrodynamics and heat and mass transfer in multiphase flows	A R Evseev	Effect of static pressure on friction reduction at gas saturation on turbulent boundary layer	Принята к публикации
36	2. Hydrodynamics and heat and mass transfer in multiphase flows	D S Elistratov, A V Meleshkin, M V Bartashevich, S L Elistratov, N V Mironova, N V Marasanov, R A Glebov	Influence of intensively boiling liquefied gas on hydrate formation in self-organizing boiling-condensation process	Принята к публикации
37	2. Hydrodynamics and heat and mass transfer in multiphase flows	A G Knyazeva	Pressure diffusion and chemical viscosity in the filtration models with state equation in differential form	Принята к публикации
38	2. Hydrodynamics and heat and mass transfer in multiphase flows	S I Lezhnin, M V Alekseev, and I S Vozhakov	Modeling the dynamics of gas (steam) out ow into a high-density liquid taking into account interfacial heat exchange	Принята к публикации

39	2. Hydrodynamics and heat and mass transfer in multiphase flows	A V Meleshkin, D S Elistratov, M V Bartashevich, V V Glezer	Experimental study of the influence of the water level in the working volume on the gas hydrates formation the method of explosive boiling during decompression	Принята к публикации
40	2. Hydrodynamics and heat and mass transfer in multiphase flows	M K Khasanov, N G Musakaev and M V Stolpovsky	Injection of liquid carbon dioxide into a gas hydrate reservoir	Принята к публикации
41	2. Hydrodynamics and heat and mass transfer in multiphase flows	S V Poplavski	On the interphase and intra-phase interaction of particles and gas in a layer of granular materials behind shock wave	Принята к публикации
42	2. Hydrodynamics and heat and mass transfer in multiphase flows	V Yu Levashov, Yu Yu Puzina	The parameters influencing sphere cooling in a cold liquid	Принята к публикации
43	2. Hydrodynamics and heat and mass transfer in multiphase flows	I A Sazhin	Enhancing heat transfer in two-phase refrigerant flow in condenser of refrigeration unit	Принята к публикации
44	2. Hydrodynamics and heat and mass transfer in multiphase flows	M V Alekseev, P D Lobanov, A I Svetonosov, V Kalpana Mohan, S I Lezhnin, N A Pribaturin	Experimental and numerical investigation of the modes pulsed gas injection into various liquids	Принята к публикации
45	2. Hydrodynamics and heat and mass transfer in multiphase flows	O Yu Tselodub, A A Bocharov	Modeling of multisoliton regimes in flowing liquid film entrained by a gas flow	Принята к публикации
46	2. Hydrodynamics and heat and mass transfer in multiphase flows	E V Usov, P D Lobanov, V I Chuhno, A E Kutlimetov, A I Svetonosov, N A Pribaturin, N A Mosunova	Experimental and numerical simulation of gas bubbles motion in liquid metal	Принята к публикации
47	2. Hydrodynamics and heat and mass transfer in multiphase flows	I S Anufriev, L I Maltsev, E Yu Shadrin and O V Sharypov	Investigating characteristics of a gas-droplet flow under different conditions of liquid dispersion by a pneumatic nozzle	Принята к публикации
48	3. Phase transitions	M V Bartashevich, A V Meleshkin, D S Elistratov and N V Mironova	Numerical modeling of absorption process on a liquid film at nonuniform heat flux on the wall	Принята к публикации
49	3. Phase transitions	A N Pavlenko, V E Zhukov, N I Pecherkin, A D Nazarov, E Yu Slesareva, X Li, H Sui, H Li, and X Gao	Dynamics of a change in the local density of liquid flow rate and efficiency of mixture separation at periodic irrigation of the structured packing	Принята к публикации
50	3. Phase transitions	Y P Ivochkin, K G Kubrikov, P V Serbin, O A Sinkevich and I O Teplyakov	Experimental study of thermo-hydrodynamic processes related to the film boiling crisis	Принята к публикации

51	3. Phase transitions	V V Konovalov, T P Lyubimova	The correction to the nonlinear inviscid model of the Rayleigh–Taylor instability suppressed by a phase transition	Принята к публикации
52	3. Phase transitions	P V Korolyov and I A Yachevsky	An experiment on He-II film boiling inside the porous structure	Принята к публикации
53	3. Phase transitions	G L Losev, I V Kolesnichenko, R I Khalilov	Control of the metal crystallization process by the modulated traveling magnetic field	Принята к публикации
54	3. Phase transitions	I K Igumenov, M S Makarov, and S N Makarova	Influence of radiative heat transfer on the sublimation of a single chromium (III) and zirconium (IV) β -diketonate particle in the argon-helium gas mixture	Принята к публикации
55	3. Phase transitions	A G Malikov, A M Orishich	Influence of thermal processing on the structural and phase content of high-strength laser welded joints of the aluminum alloy system Al-Mg-Li	Принята к публикации
56	3. Phase transitions	A N Sterlyagov, V N Letushko, M I Nizovtsev, and V Yu Borodulin	Effect of the surface wettability on water droplet evaporation	Принята к публикации
57	3. Phase transitions	A N Sterlyagov, V N Letushko, M I Nizovtsev, and V Yu Borodulin	Experimental study of the evaporation of suspended droplets of a water-ethanol solution	Принята к публикации
58	3. Phase transitions	I A Khaziev, A V Dedov and M O Serebryakova	Research of the leidenfrost temperature on structured surfaces	Принята к публикации
59	3. Phase transitions	S Ya Khmel, A V Barsukov	Effect of indium catalyst particle size on the morphology of silicon oxide nanowires	Принята к публикации
60	3. Phase transitions	A A Chernov and A A Pil'nik	Gas bubble growth in a highly-viscous liquid under strongly non-equilibrium conditions	Принята к публикации
61	3. Phase transitions	V I Zalkind, V L Nizovskiy, L V Nizovskiy, S S Schigel	Perspectives of Reaching Mono- and Bimodal Droplet Size Distribution of Atomized Superheated Water in Micron and Submicron Ranges	Принята к публикации
62	4. Reacting flow dynamics, detonation processes	I S Anufriev, E P Kopyev, O V Sharyпов, S S Arsenteyev, Ya A Osintsev	Combustion of sub-standard liquid hydrocarbons dispersed by a superheated steam jet	Принята к публикации
63	4. Reacting flow dynamics, detonation processes	I A Bedarev	Numerical simulation of the suppression of cellular detonation by inert particles	Принята к публикации

64	4. Reacting flow dynamics, detonation processes	S S Abdurakipov, A P Burdukov, E B Butakov and A V Kuznetsov	On investigation of burning and gasification of coal fuel crushed at mills with high-energy impact	Принята к публикации
65	4. Reacting flow dynamics, detonation processes	F A Bykovskii, S A Zhdan, E F Vedernikov	Continuous spin detonation of methane/hydrogen-air mixtures with additional injection of air to combustion products	Принята к публикации
66	4. Reacting flow dynamics, detonation processes	D O Glushkov	Heat and mass transfer at gel propellant ignition	Принята к публикации
67	4. Reacting flow dynamics, detonation processes	N P Satonkina, S A Bordzilovsky, D A Danilko, A P Ershov, S M Karakhanov, A V Plastinin, S I Rafeichik , A S Yunoshev	Influence of aluminum on the characteristics of detonating emulsion explosives	Принята к публикации
68	4. Reacting flow dynamics, detonation processes	S A Yankovsky, G V Kuznetsov, A V Zenkov	Applying composite fuels based on coal and finely dispersed wood in heat power engineering	Принята к публикации
69	4. Reacting flow dynamics, detonation processes	K B Larionov, I V Mishakov, A A Gromov and A V Zenkov	The influence of nanoxide additives on the characteristics of thermal decomposition of ammonium nitrate	Принята к публикации
70	4. Reacting flow dynamics, detonation processes	Y A Kagramanov, V G Tuponogov, A F Ryzhkov, P V Osipov	Analytical modeling of hot gas clean up reactor	Принята к публикации
71	4. Reacting flow dynamics, detonation processes	E P Kopyev, M V Agafontsev, E L Loboda, E Yu Shadrin	Flame thermography during diesel fuel combustion in the vaporizing burner	Принята к публикации
72	4. Reacting flow dynamics, detonation processes	A V Kuznetsov, E B Butakov, A P Burdukov, P Plusnin	Studying kinetics of thermal decomposition of coals and combustion of mechanoactivated microgrinding coals	Принята к публикации
73	4. Reacting flow dynamics, detonation processes	A V Fedorov, S A Lavruk	An influence of expressions for thermophysical parameters on calculation results of melting and detonation combustion of aluminum suspensions	Принята к публикации
74	4. Reacting flow dynamics, detonation processes	K B Larionov, I V Mishakov, A A Gromov	Research of thermal destruction dynamics of coal particles in oxidizing medium with copper nitrate	Принята к публикации
75	4. Reacting flow dynamics, detonation processes	A A Levin and A N Kozlov	Verification of the stage scheme of low-grade solid fuel gasification	Принята к публикации

76	4. Reacting flow dynamics, detonation processes	S Y Misyura, V S Morozov	Influence of the granule size and composition uniformity on methane hydrate dissociation	Принята к публикации
77	4. Reacting flow dynamics, detonation processes	A D Nikitin, G I Khudyakova, A F Ryzhkov	Production of nanoporous sorbents by partial steam-air conversion of charcoal	Принята к публикации
78	4. Reacting flow dynamics, detonation processes	A A Ponomareva, V I Babushok, K A Shtym	Influence of atmosphere composition on thermal decomposition of coal-bitumen composite materials	Принята к публикации
79	4. Reacting flow dynamics, detonation processes	F A Bykovskii, S A Zhdan, E F Vedernikov, A N Samsonov, and E L Popov	Detonation of a hydrogen-oxygen gas mixture in a plane-radial combustor with exhaustion toward the periphery in the regime of oxygen ejection	Принята к публикации
80	4. Reacting flow dynamics, detonation processes	K V Slyusarskiy, V E Gubin, D V Gvozdyakov, A A Tolokolnikov	Comparison of differential and integral methods for coal oxidation kinetic analysis	Принята к публикации
81	4. Reacting flow dynamics, detonation processes	A I Schastlivtsev, V I Borzenko	Investigation of the distribution of heat fluxes in the combustion chamber of a hydrogen-oxygen steam generator	Принята к публикации
82	4. Reacting flow dynamics, detonation processes	A V Trotsyuk	Numerical modelling of detonation combustion of hydrogen-air mixture in a supersonic annular chamber	Принята к публикации
83	4. Reacting flow dynamics, detonation processes	T A Khmel, S A Lavruk	Modeling the detonation propagation in nanodisperse mixture of aluminum particles in channels with expansion	Принята к публикации
84	4. Reacting flow dynamics, detonation processes	G I Khudyakova, A N Kozlov, D A Svishchev and M V Penzik	Thermal analysis of wood fuel pyrolysis process	Принята к публикации
85	4. Reacting flow dynamics, detonation processes	S A Yankovsky, G V Kuznetsov	Influence of wood component on physical and chemical transformations during high temperature heating of composite fuel based on bituminous coal	Принята к публикации
86	4. Reacting flow dynamics, detonation processes	K M Moiseeva and A Yu Krainov	Spark ignition critical conditions for aluminum-air suspension	Принята к публикации
87	5. Numerical methods in thermophysics and physical hydrodynamics	I S Vozhakov, D G Arkhipov, and O Yu Tselodub	Singular surface points of steady-state traveling solutions of mathematical models of a falling fluid film	Принята к публикации
88	5. Numerical methods in thermophysics and physical hydrodynamics	Yu Yu Bozko, K V Gets, R K Zhdanov, O S Subbotin	Modelling thermodynamic properties of mixed ozone and argon hydrates using quantum chemistry methods	Принята к публикации

89	5. Numerical methods in thermophysics and physical hydrodynamics	E I Dauengauer, R I Mullyadzhinov, M V Timoshevskiy, I I Zapryagaev, K S Pervunin	Flow around a low-aspect-ratio wall-bounded 2D hydrofoil: a LES/PIV study	Принята к публикации
90	5. Numerical methods in thermophysics and physical hydrodynamics	V R Belosludov, Y Y Bozhko, R K Zhdanov	Self-preservation effect modelling in hydrate systems using Lattice Dynamic methods	Принята к публикации
91	5. Numerical methods in thermophysics and physical hydrodynamics	A Yu Klikunova, A V Khoperskov	Numerical hydrodynamic model of the Lower Volga	Принята к публикации
92	5. Numerical methods in thermophysics and physical hydrodynamics	K Yu Litvintsev, K A Finnikov	Development of a specialized mathematical model of heat transfer in a vacuum electric furnace	Принята к публикации
93	5. Numerical methods in thermophysics and physical hydrodynamics	S V Fortova, E I Oparina and M S Belotserkovskaya	Numerical simulation of the Kolmogorov flow under the influence of the periodic field of the external force	Принята к публикации
94	5. Numerical methods in thermophysics and physical hydrodynamics	E M Smirnov, A G Abramov, A A Smirnovsky, P E Smirnov	Numerical simulation of turbulence arising in the free convection boundary layer after a cross row of rectangular obstacles	Принята к публикации
95	5. Numerical methods in thermophysics and physical hydrodynamics	V M Goloviznin, A V Solovjov and V B Zalesny	A new algorithm for solving the shallow water equations on the sphere based on the cabaret scheme	Принята к публикации
96	5. Numerical methods in thermophysics and physical hydrodynamics	V V Shepelev, N A Inogamov, S V Fortova, P A Danilov, S I Kudryashov, A A Kuchmizhak and O B Vitrik	Action of a femtosecond laser pulse on thin metal film supported by glass substrate	Принята к публикации
97	6. Techniques of thermophysics and hydrodynamics experiment	R A Alekseev, V G Gribin, A A Tishchenko, I Yu Gavrilov, V A Tishchenko and V V Popov	Application of PTV method for investigation of polydisperse wet steam flow	Принята к публикации
98	6. Techniques of thermophysics and hydrodynamics experiment	A A Emelyanov, VA Lebedev, and I B Yudin	Calculation and measurement of temperature of cylindrical spiral by thermocouple under given geometric conditions	Принята к публикации
99	6. Techniques of thermophysics and hydrodynamics experiment	A R Zabiroy, V V Yagov, M A Lexin, and P K Kanin	Method of restoring boundary conditions on the high-temperature sphere surface during its cooling	Принята к публикации

100	6. Techniques of thermophysics and hydrodynamics experiment	A E Zarvin, V V Kalyada, A S Yaskin, K A Dubrovin, V E Khudozhnikov and S T Chinenov	Features of registration methods for clustered supersonic jets	Принята к публикации
101	6. Techniques of thermophysics and hydrodynamics experiment	A R Lepeshkin, V V Nazarov, V A Golikov and O I Ilinskaja	Simulation of thermal state of turbine disks at tests	Принята к публикации
102	6. Techniques of thermophysics and hydrodynamics experiment	A N Mikheev	Turbulent characteristics in the cylinder near wake estimated by SIV measurements	Принята к публикации
103	6. Techniques of thermophysics and hydrodynamics experiment	I I Saushin, A E Goltsman, I G Salekhova	Estimation of turbulent diffusion transport in the boundary layer by the SIV method	Принята к публикации
104	6. Techniques of thermophysics and hydrodynamics experiment	A E Berkovich, E M Smirnov, A D Yukhnev, Y A Gataulin, D E Sinitsyna, and D A Tarkhov	Experience in using the heated wire method for accuracy estimation of ultrasonic thermometry technique	Принята к публикации
105	7. Thermophysical properties of substances and new materials	G R Dashapilov, A O Kashkarov, I A Rubtsov, A A Shupik	Measuring the voltage-current characteristic of pentaerythritol tetranitrate and trinitrotoluene composites containing single-walled carbon nanotubes	Принята к публикации
106	7. Thermophysical properties of substances and new materials	B S Ezdin, V V Kalyada, A V Ischenko, A E Zarvin, A A Nikiforov and D A Yatsenko	Production of nanoscale crystalline materials (Si, SiC) by a highly efficient hyperbaric method	Принята к публикации
107	7. Thermophysical properties of substances and new materials	A S Zavorin, VI V Salomatov, R B Tabakaev, V A Karelin and V V Salomatov	Investigation of the elemental and technical composition and thermophysical properties of coal samples from the Talovsky deposit of Siberia	Принята к публикации
108	7. Thermophysical properties of substances and new materials	M N Krivosheina, E V Tuch	Equations of state in materials beyond the assumption of isotropy of volume compressibility	Принята к публикации
109	7. Thermophysical properties of substances and new materials	A V Morozov, A V Pityk, A R Sahipgareev, and A S Shlepkin	Experimental study of the thermophysical properties of boric acid solutions at the parameters typical of the WWER emergency mode	Принята к публикации
110	7. Thermophysical properties of substances and new materials	Yu V Nemirovskii, A V Stanislavovich	Thermal conductivity of composition plates	Принята к публикации
111	7. Thermophysical properties of substances and new materials	I A Romanov, V I Borzenko, A N Kazakov	Influence of high thermal conductivity addition on PCT-isotherms of hydrogen storage alloy	Принята к публикации

112	7. Thermophysical properties of substances and new materials	S V Rykov, I V Kudryavtseva, V A Rykov, A V Zaitsev	Methods for calculating equilibrium properties of pure substances, considering the critical point features	Принята к публикации
113	7. Thermophysical properties of substances and new materials	I Savchenko	Method for calculating the thermal diffusivity and thermal conductivity of heavy low-melting metals in the liquid state	Принята к публикации
114	7. Thermophysical properties of substances and new materials	D A Samoshkin, I V Savchenko and E P Raschektaeva	Heat capacity peculiarities of hard magnetic materials of Nd-Fe-B and Sm-Co systems	Принята к публикации
115	7. Thermophysical properties of substances and new materials	D V Smovzh, E V Boyko and I A Kostogrud	Modification of crystal structure of copper surface during graphene synthesis	Принята к публикации
116	7. Thermophysical properties of substances and new materials	E A Strebkova and M N Krivosheina	Corotational derivatives in the numerical simulation of shock loading of deformable solid on the example of aluminum alloy 2024	Принята к публикации
117	7. Thermophysical properties of substances and new materials	D V Chugunkov, Yu A Kuzma-Kichta, G A Seyfelmlyukova, A V Lavrikov, A D Skurikhina	Protective materials thermal conductivity research for heat exchanger tubes of a networking heater	Принята к публикации
118	8. Heat transfer and hydrodynamics on micro- and nanoscales	D A Vinogradov, I O Teplyakov, Yu P Ivochkin and A Kharicha	On the applicability of the electrodynamic approximation in the simulation of the electrovortex flow in the presence of an external magnetic field	Принята к публикации
119	8. Heat transfer and hydrodynamics on micro- and nanoscales	N A Demin, A V Fedoseev, V A Pinaev, M V Isupov and G I Sukhinin	One-dimensional numerical model of a low-frequency inductively coupled plasma	Принята к публикации
120	8. Heat transfer and hydrodynamics on micro- and nanoscales	D I Karpov and M B Meredova	Simulation of partial discharge in helium filled elliptic cavity in dielectric	Принята к публикации
121	8. Heat transfer and hydrodynamics on micro- and nanoscales	A L Kupershtokh	Use of the lattice Boltzmann method for simulations of heating a "plasma" in channels and vapor-gas cavities at electrical discharges in liquid dielectrics	Принята к публикации
122	8. Heat transfer and hydrodynamics on micro- and nanoscales	R N Medvedev	Dynamic properties of water microwave plasma	Принята к публикации
123	8. Heat transfer and hydrodynamics on micro- and nanoscales	E I Palchikov, A V Dolgikh, V V Klypin and M S Samoylenko	Developing a new high-power flash X-ray apparatus with harmonized magnetic and electrical fields	Принята к публикации
124	8. Heat transfer and hydrodynamics on micro- and nanoscales	S M Korobeynikov, A G Ovsyannikov, A V Ridel and D I Karpov	Study of partial discharges in bubbles and microsphere in transformer oil	Принята к публикации

125	8. Heat transfer and hydrodynamics on micro- and nanoscales	A V Fedoseev, N A Demin, S Z Sakhapov, A V Zaikovskii and D V Smovzh	Numerical simulation of the plasma parameters of a low-pressure arc discharge in helium	Принята к публикации
126	9. Electrophysical phenomena in gaseous and liquid media	D V Blinov, V I Borzenko, D O Dunikov, A N Kazakov	Experimental investigations of thermal processes in the flow-throw hydrogen purification reactor	Принята к публикации
127	9. Electrophysical phenomena in gaseous and liquid media	L E Vendland, S V Monin, A S Pugachuk, A A Kosoy and M V Sinkevich	Results from testing heat-recovery accumulator	Принята к публикации
128	9. Electrophysical phenomena in gaseous and liquid media	I Gavrilov, V Popov	Influence of the temperature of the heating steam on the characteristics of the liquid phase downstream the stator blades of steam turbine	Принята к публикации
129	9. Electrophysical phenomena in gaseous and liquid media	Yu A Gavrilova, V N Beschatnykh, Yu A Borisov, D A Achkasov and A S Kosoy	Optimization of micro gas-turbine-recuperator heat transfer surface	Принята к публикации
130	9. Electrophysical phenomena in gaseous and liquid media	R Deeb and D V Sidenkov	Numerical and experimental investigation of heat transfer in cable heated pipeline	Принята к публикации
131	9. Electrophysical phenomena in gaseous and liquid media	S M Dmitriev, A A Dobrov, A N Pronin, A V Ryazanov, D N Solntsev	Calculation and experimental studies of coolant hydrodynamics in the inlet region of fuel assembly	Принята к публикации
132	9. Electrophysical phenomena in gaseous and liquid media	V I Borzenko, D V Blinov, D O Dunikov and A I Leontiev	Characteristic features of heat and mass transfer in hydrogen energy storage systems	Принята к публикации
133	9. Electrophysical phenomena in gaseous and liquid media	O A Evdokimov, Sh A Piralishvili, S V Veretennikov and A I Guryanov	CFD Simulation of a Vortex Ejector for Use in Vacuum Applications	Принята к публикации
134	9. Electrophysical phenomena in gaseous and liquid media	S V Mirnov, A T Komov, A N Varava, I E Lyublinski, A V Dedov, A V Vertkov and A V Zakharenkov	Experimental investigation of heat transfer of highly loaded structure elements upon cooling by a two-component gas-liquid flow	Принята к публикации
135	9. Electrophysical phenomena in gaseous and liquid media	I I Komarov, D M Rostova, A A Kaverin, N M Bychkov	Improvement of pellet fuel bed combustion technology in low power boilers	Принята к публикации
136	9. Electrophysical phenomena in gaseous and liquid media	O E Kondrateva, P V Roslyakov, A M Borovkova and O A Loktionov	Problems of requirements implementation for the new environmental legislation in energy sector	Принята к публикации
137	9. Electrophysical phenomena in gaseous and liquid media	Nemirovsky Yuri Vladimirovich, Mozgova Anna Stanislavovna	Problems of thermal conductivity for storage tanks of liquefied gases and oil products	Принята к публикации

138	9. Electrophysical phenomena in gaseous and liquid media	Yu A Zeigarnik, A S Kosoi, L V Nizovskii, V L Nizovskii	Using Flow Swirlers to Enhance Heat Transfer in Apparatuses of Wet Regeneration of Waste-Gases Heat	Принята к публикации
139	9. Electrophysical phenomena in gaseous and liquid media	A Sukhanovskii, V Shchapov, A Pavlinov and E Popova	Laboratory model of tropical cyclone with controlled forcing	Принята к публикации
140	9. Electrophysical phenomena in gaseous and liquid media	D Platonov, A Minakov, A Dekterev, D Dekterev, V Zhigarev and Y Goryunov	Experimental study of the swirling flow effect on the efficiency of the local ventilation system	Принята к публикации
141	9. Electrophysical phenomena in gaseous and liquid media	A S Rtishcheva	Development of air exchanging system for subsonic wind tunnel	Принята к публикации
142	9. Electrophysical phenomena in gaseous and liquid media	T Lyubimova, Ya Parshakova, A Lepikhin, Yu Lyakhin, A Tiunov	The calculation of technogenic thermal pollution zones in large water reservoirs	Принята к публикации
143	9. Electrophysical phenomena in gaseous and liquid media	V Tishchenko, R Alekseev	Numerical modeling of the mechanism of coarse droplets deposition on surfaces of a steam turbine nozzle blade cascade	Принята к публикации
144	9. Electrophysical phenomena in gaseous and liquid media	M P Tokarev, S S Abdurakipov, O A Gobyzov, A V Seredkin, V M Dulin	Monitoring of combustion regimes based on the visualization of the flame and machine learning	Принята к публикации
145	9. Electrophysical phenomena in gaseous and liquid media	M Yu Filimonov and N A Vaganova	Simulation of Optimal Operation of a Multiple Wells Open Geothermal System	Принята к публикации
146	10. Heat transfer and hydrodynamics in industrial processes and environment protection	T Ya Shul'ga	The evolution of edge waves propagated over a variable slope-shelf topography	Принята к публикации
147	10. Heat transfer and hydrodynamics in industrial processes and environment protection	S G Demyshev	The work of the main forces in the annual-averaged and seasonal-averaged energy balance of the Black Sea circulation	Принята к публикации
148	10. Heat transfer and hydrodynamics in industrial processes and environment protection	V L Dorofeyev and L I Sukhikh	Study of the Black Sea dynamics on the basis of reanalysis results	Принята к публикации
149	10. Heat transfer and hydrodynamics in industrial processes and environment protection	O A Dymova	Mesoscale variability of the Black Sea circulation by the simulation results in 2011 and 2016	Принята к публикации
150	10. Heat transfer and hydrodynamics in industrial processes and environment protection	M N Kaurkin, R A Ibrayev	Multivariate EnOI-based data assimilation in the high resolution ocean model	Принята к публикации

151	10. Heat transfer and hydrodynamics in industrial processes and environment protection	N V Markova	Variability of the Black Sea deep-water circulation based on hydrophysical reanalysis results	Принята к публикации
152	10. Heat transfer and hydrodynamics in industrial processes and environment protection	A I Mizyuk, O S Puzina and M V Senderov	Accuracy of the reconstructed temperature in the Black Sea upper layer from nowcasting/forecasting systems	Принята к публикации
153	10. Heat transfer and hydrodynamics in industrial processes and environment protection	Yu B Ratner, A L Kholod	Estimation of the Black Sea upper layer thickness and its relationship with atmospheric forcing according to model calculations and in situ measurements	Принята к публикации
154	10. Heat transfer and hydrodynamics in industrial processes and environment protection	A S Samodurov and A M Chukharev	Vertical turbulent exchange features in the layer of seasonal pycnocline in the northwestern part of the Black Sea	Принята к публикации
155	10. Heat transfer and hydrodynamics in industrial processes and environment protection	M V Senderov, A I Mizyuk and G K Korotaev	The Bosphorus exchange flow impact on the river runoff	Принята к публикации
156	10. Heat transfer and hydrodynamics in industrial processes and environment protection	A L Kholod, Yu B Ratner, M V Ivanchik and M V Martinov	Estimation of the numerical modeling accuracy of the Black Sea thermohaline fields based on using ARGO profiling floats	Принята к публикации