

Kuznetsov Geniy V Kuznetsov

List of Publications by Citations

Source:
<https://exaly.com/author-pdf/6340575/kuznetsov-geniy-v-kuznetsov-publications-by-citations.pdf>
Version: 2024-04-10

This document has been generated based on the publications and citations recorded by exaly.com. For the latest version of this publication list, visit the link given above.
The third column is the impact factor (IF) of the journal, and the fourth column is the number of citations of the article.

370 papers	3,297 citations	31 h-index	40 g-index
379 ext. papers	3,901 ext. citations	1.7 avg, IF	6.15 L-index

#	Paper	IF	Citations
370	Experimental investigation of mixtures and foreign inclusions in water droplets influence on integral characteristics of their evaporation during motion through high-temperature gas area. <i>International Journal of Thermal Sciences</i> , 2015 , 88, 193-200	4.1	70
369	Experimental investigation of atomized water droplet initial parameters influence on evaporation intensity in flaming combustion zone. <i>Fire Safety Journal</i> , 2014 , 70, 61-70	3.3	69
368	The influence of initial sizes and velocities of water droplets on transfer characteristics at high-temperature gas flow. <i>International Journal of Heat and Mass Transfer</i> , 2014 , 79, 838-845	4.9	68
367	Water droplet deformation in gas stream: Impact of temperature difference between liquid and gas. <i>International Journal of Heat and Mass Transfer</i> , 2015 , 85, 1-11	4.9	61
366	Mathematical Simulation of Thermophysical and Thermochemical Processes During Combustion of Intumescent Fire Protective Coatings. <i>Combustion, Explosion and Shock Waves</i> , 2001 , 37, 178-186	1	52
365	A numerical simulation of double-diffusive conjugate natural convection in an enclosure. <i>International Journal of Thermal Sciences</i> , 2011 , 50, 1878-1886	4.1	51
364	Evaporation, boiling and explosive breakup of heterogeneous droplet in a high-temperature gas. <i>International Journal of Heat and Mass Transfer</i> , 2016 , 92, 360-369	4.9	50
363	Conjugate heat transfer in an enclosure under the condition of internal mass transfer and in the presence of the local heat source. <i>International Journal of Heat and Mass Transfer</i> , 2009 , 52, 1-8	4.9	50
362	Numerical simulation of turbulent natural convection in a rectangular enclosure having finite thickness walls. <i>International Journal of Heat and Mass Transfer</i> , 2010 , 53, 163-177	4.9	48
361	Influence of droplet concentration on evaporation in a high-temperature gas. <i>International Journal of Heat and Mass Transfer</i> , 2016 , 96, 20-28	4.9	45
360	Conjugate natural convection in an enclosure with a heat source of constant heat transfer rate. <i>International Journal of Heat and Mass Transfer</i> , 2011 , 54, 260-268	4.9	45
359	Integral characteristics of water droplet evaporation in high-temperature combustion products of typical flammable liquids using SP and IPI methods. <i>International Journal of Thermal Sciences</i> , 2016 , 108, 218-234	4.1	44
358	Transient heat and mass transfer at the ignition of vapor and gas mixture by a moving hot particle. <i>International Journal of Heat and Mass Transfer</i> , 2010 , 53, 923-930	4.9	44
357	The influence of the structure heterogeneity on the characteristics and conditions of the coal-water fuel particles ignition in high temperature environment. <i>Combustion and Flame</i> , 2017 , 180, 196-206	5.3	43
356	Estimation of the numerical values of the evaporation constants of water droplets moving in a high-temperature gas flow. <i>High Temperature</i> , 2015 , 53, 254-258	0.8	42
355	Heat and mass transfer in the process of movement of water drops in a high-temperature gas medium. <i>Journal of Engineering Physics and Thermophysics</i> , 2013 , 86, 62-68	0.6	41
354	Numerical simulation of ignition of particles of a coal-water fuel. <i>Combustion, Explosion and Shock Waves</i> , 2015 , 51, 409-415	1	41

353	Conjugate natural convection with radiation in an enclosure. <i>International Journal of Heat and Mass Transfer</i> , 2009 , 52, 2215-2223	4.9	41
352	Regimes of Spreading of a Water Droplet Over Substrates with Varying Wettability. <i>Journal of Engineering Physics and Thermophysics</i> , 2016 , 89, 317-322	0.6	40
351	New approach to the mathematical modeling of thermal regimes for electronic equipment. <i>Russian Microelectronics</i> , 2008 , 37, 131-138	0.5	39
350	3D problem of heat and mass transfer at the ignition of a combustible liquid by a heated metal particle. <i>Journal of Engineering Thermophysics</i> , 2009 , 18, 72-79	1.4	37
349	Ignition of model composite propellants by a single particle heated to high temperatures. <i>Combustion, Explosion and Shock Waves</i> , 2008 , 44, 543-546	1	37
348	The influence of heat transfer conditions at the hot particle-liquid fuel interface on the ignition characteristics. <i>Journal of Engineering Thermophysics</i> , 2009 , 18, 162-167	1.4	36
347	Evaporation of Water Droplets in a High-Temperature Gaseous Medium. <i>Journal of Engineering Physics and Thermophysics</i> , 2016 , 89, 141-151	0.6	35
346	Mathematical modelling of complex heat transfer in a rectangular enclosure. <i>Thermophysics and Aeromechanics</i> , 2009 , 16, 119-128	0.9	34
345	Numerical Simulation of Ignition of a Condensed Substance by a Particle Heated to High Temperatures. <i>Combustion, Explosion and Shock Waves</i> , 2004 , 40, 70-76	1	34
344	Evaporation of liquid droplets from a surface of anodized aluminum. <i>Thermophysics and Aeromechanics</i> , 2016 , 23, 17-22	0.9	34
343	Experimental investigation of liquid drop evaporation on a heated solid surface. <i>Thermophysics and Aeromechanics</i> , 2015 , 22, 771-774	0.9	33
342	Two-dimensional problem of natural convection in a rectangular domain with local heating and heat-conducting boundaries of finite thickness. <i>Fluid Dynamics</i> , 2006 , 41, 881-890	0.7	32
341	Unification of the textures formed on aluminum after laser treatment. <i>Applied Surface Science</i> , 2019 , 469, 974-982	6.7	32
340	The motion of a manifold of finely dispersed liquid droplets in the counterflow of high-temperature gases. <i>Technical Physics Letters</i> , 2014 , 40, 499-502	0.7	31
339	Heat transfer under heating of a local region of a large production area by gas infrared radiators. <i>Journal of Engineering Physics and Thermophysics</i> , 2013 , 86, 519-524	0.6	31
338	The influence of heat transfer conditions on the parameters characterizing the ignition of coal-water fuel particles. <i>Thermal Engineering (English Translation of Teploenergetika)</i> , 2015 , 62, 703-707	0.8	31
337	Simulation of the ignition of liquid fuel with a local source of heating under conditions of fuel burnout. <i>Russian Journal of Physical Chemistry B</i> , 2011 , 5, 668-673	1.2	31
336	Heat and mass transfer at the ignition of a liquid substance by a single hot particle. <i>Journal of Engineering Thermophysics</i> , 2008 , 17, 244-252	1.4	31

335	Evaporation of two liquid droplets moving sequentially through high-temperature combustion products. <i>Thermophysics and Aeromechanics</i> , 2014 , 21, 255-258	0.9	30
334	The influence of the surface microtexture on wettability properties and drop evaporation. <i>Surface and Coatings Technology</i> , 2019 , 375, 458-467	4.4	29
333	Numerical Investigation of the Influence of Convection in a Mixture of Combustion Products on the Integral Characteristics of the Evaporation of a Finely Atomized Water Drop. <i>Journal of Engineering Physics and Thermophysics</i> , 2014 , 87, 103-111	0.6	28
332	Platinum Electroless Deposition on Silicon from Hydrogen Fluoride Solutions: Electrical Properties. <i>Journal of the Electrochemical Society</i> , 2001 , 148, C528	3.9	28
331	Regimes of water droplet evaporation on copper substrates. <i>Colloid Journal</i> , 2016 , 78, 335-339	1.1	27
330	Numerical simulation of solid-phase ignition of metallized condensed matter by a particle heated to a high temperature. <i>Russian Journal of Physical Chemistry B</i> , 2011 , 5, 1000-1006	1.2	27
329	Droplet state and mechanism of contact line movement on laser-textured aluminum alloy surfaces. <i>Journal of Colloid and Interface Science</i> , 2019 , 553, 557-566	9.3	26
328	Differences in the ignition characteristics of coal-water slurries and composite liquid fuel. <i>Solid Fuel Chemistry</i> , 2016 , 50, 88-101	0.7	25
327	Influence of the initial parameters of spray water on its motion through a counter flow of high-temperature gases. <i>Technical Physics</i> , 2014 , 59, 959-967	0.5	25
326	Investigation of drop dynamic contact angle on copper surface. <i>EPJ Web of Conferences</i> , 2015 , 82, 01053	0.3	25
325	Measuring the rate of local evaporation from the liquid surface under the action of gas flow. <i>Technical Physics Letters</i> , 2015 , 41, 665-667	0.7	25
324	CONJUGATE NATURAL CONVECTION IN AN ENCLOSURE WITH LOCAL HEAT SOURCES. <i>Computational Thermal Sciences</i> , 2009 , 1, 341-360	1.9	25
323	Marangoni flow and free convection during crystallization of a salt solution droplet. <i>Colloids and Surfaces A: Physicochemical and Engineering Aspects</i> , 2019 , 572, 37-46	5.1	23
322	Effects of plant additives on the concentration of sulfur and nitrogen oxides in the combustion products of coal-water slurries containing petrochemicals. <i>Environmental Pollution</i> , 2020 , 258, 113682	9.3	23
321	Low-temperature ignition of coal particles in an airflow. <i>Russian Journal of Physical Chemistry B</i> , 2015 , 9, 242-249	1.2	22
320	Evaporation of single droplets and dispersed liquid flow in motion through high-temperature combustion products. <i>High Temperature</i> , 2014 , 52, 568-575	0.8	22
319	Comparison of the characteristics of micro-explosion and ignition of two-fluid water-based droplets, emulsions and suspensions, moving in the high-temperature oxidizer medium. <i>Acta Astronautica</i> , 2019 , 160, 258-269	2.9	21
318	Mathematical simulation of the ignition of coal particles in airflow. <i>Solid Fuel Chemistry</i> , 2015 , 49, 73-79	0.7	21

3 ¹⁷	Statistical analysis of consequences of collisions between two water droplets upon their motion in a high-temperature gas flow. <i>Technical Physics Letters</i> , 2015 , 41, 840-843	0.7	21
3 ¹⁶	Influence of solid inclusions in liquid drops moving through a high-temperature gaseous medium on their evaporation. <i>Technical Physics</i> , 2014 , 59, 1770-1774	0.5	21
3 ¹⁵	Conditions and characteristics of droplets breakup for industrial waste-derived fuel suspensions ignited in high-temperature air. <i>Fuel</i> , 2020 , 265, 116915	7.1	20
3 ¹⁴	Water Droplet With Carbon Particles Moving Through High-Temperature Gases. <i>Journal of Heat Transfer</i> , 2016 , 138,	1.8	19
3 ¹³	Experimental investigation of consecutive water droplets falling down through high-temperature gas zone. <i>International Journal of Heat and Mass Transfer</i> , 2016 , 95, 184-197	4.9	19
3 ¹²	Natural convection in a closed parallelepiped with a local energy source. <i>Journal of Applied Mechanics and Technical Physics</i> , 2013 , 54, 588-595	0.6	19
3 ¹¹	Solid-phase ignition of a composite propellant by a hot particle under free-convection heat sink into the environment. <i>Russian Journal of Physical Chemistry B</i> , 2014 , 8, 196-204	1.2	18
3 ¹⁰	Numerical Investigation of Water Droplets Shape Influence on Mathematical Modeling Results of Its Evaporation in Motion through a High-Temperature Gas. <i>Mathematical Problems in Engineering</i> , 2014 , 2014, 1-8	1.1	18
3 ⁰⁹	Numerical analysis of convective heat transfer in a closed two-phase thermosyphon. <i>Journal of Engineering Thermophysics</i> , 2011 , 20, 201-210	1.4	18
3 ⁰⁸	Conditions and Characteristics in Ignition of Composite Fuels Based on Coal with the Addition of Wood. <i>Thermal Engineering (English Translation of Teploenergetika)</i> , 2019 , 66, 133-137	0.8	17
3 ⁰⁷	Experimental Study of the Effects of Collision of Water Droplets in a Flow of High-Temperature Gases. <i>Journal of Engineering Physics and Thermophysics</i> , 2016 , 89, 100-111	0.6	17
3 ⁰⁶	Analysis of the Effect Exerted by the Initial Temperature of Atomized Water on the Integral Characteristics of Its Evaporation During Motion Through the Zone of Hot Gases. <i>Journal of Engineering Physics and Thermophysics</i> , 2014 , 87, 450-458	0.6	16
3 ⁰⁵	Predictive Determination of the Integral Characteristics of Evaporation of Water Droplets in Gas Media with a Varying Temperature. <i>Journal of Engineering Physics and Thermophysics</i> , 2017 , 90, 615-624	0.6	16
3 ⁰⁴	Experimental study of the suppression of flaming combustion and thermal decomposition of model ground and crown forest fires. <i>Combustion, Explosion and Shock Waves</i> , 2017 , 53, 678-688	1	15
3 ⁰³	Stability of composite solid propellant ignition by a local source of limited energy capacity. <i>Combustion, Explosion and Shock Waves</i> , 2014 , 50, 670-675	1	15
3 ⁰²	The Conditions and Characteristics of Wood Particles Ignition in the Stream of the High Temperature Gases. <i>Combustion Science and Technology</i> , 2018 , 190, 663-686	1.5	14
3 ⁰¹	Effect of the shape of particles on the characteristics of the ignition of coal-water fuel. <i>Solid Fuel Chemistry</i> , 2015 , 49, 365-371	0.7	14
3 ⁰⁰	Experimental investigation of evaporation enhancement for water droplet containing solid particles in flaming combustion area. <i>Thermal Science</i> , 2016 , 20, 131-141	1.2	14

- 299 Sawdust as ignition intensifier of coal water slurries containing petrochemicals. *Energy*, **2017**, 140, 69-77.9 13
- 298 Ignition of the wood biomass particles under conditions of near-surface fragmentation of the fuel layer. *Fuel*, **2019**, 252, 19-36 7.1 13
- 297 Effect of high-temperature gas flow on ignition of the water-coal fuel particles. *Combustion and Flame*, **2019**, 203, 375-385 5.3 13
- 296 A theoretical analysis of the systematic errors in determining the thermal characteristics of structural materials by a pulse method in a sample of finite dimensions. *Measurement Techniques*, **2009**, 52, 384-387 0.4 13
- 295 Temperature measurement in the trace of water droplet when heating by hot air. *Experimental Thermal and Fluid Science*, **2017**, 81, 256-264 3 12
- 294 Effect of the volume concentration of a set of water droplets moving through high-temperature gases on the temperature in the wake. *Journal of Applied Mechanics and Technical Physics*, **2015**, 56, 558-568 0.6 12
- 293 Effect of Heat-Transfer Conditions on the Ignition Characteristics of Liquid Fuel. *Chemical and Petroleum Engineering (English Translation of Khimicheskoe i Neftyanoe Mashinostroenie)*, **2014**, 50, 424-429 0.6 12
- 292 The effect of the dynamic adsorption mode on impedance of composite structures with porous silicon. *Semiconductors*, **2010**, 44, 1342-1348 0.7 12
- 291 Droplet Spreading and Wettability of Abrasive Processed Aluminum Alloy Surfaces. *Metals and Materials International*, **2020**, 26, 46-55 2.4 12
- 290 Experimental determination of times, amplitudes, and lengths of cycles of water droplet deformation in air. *Technical Physics Letters*, **2015**, 41, 128-131 0.7 11
- 289 Effect of concentration and relative position of wood and coal particles on the characteristics of the mixture ignition process. *Fuel*, **2020**, 274, 117843 7.1 11
- 288 Switching Coal-Fired Thermal Power Plant to Composite Fuel for Recovering Industrial and Municipal Waste: Combustion Characteristics, Emissions, and Economic Effect. *Energies*, **2020**, 13, 259 3.1 11
- 287 Numerical Investigation of Physicochemical Processes Occurring During Water Evaporation in the Surface Layer Pores of a Forest Combustible Material. *Journal of Engineering Physics and Thermophysics*, **2014**, 87, 773-781 0.6 11
- 286 Numerical study of ignition of a metallized condensed substance by a source embedded into the subsurface layer. *Russian Journal of Physical Chemistry B*, **2013**, 7, 269-275 1.2 11
- 285 Conditions of explosive evaporation at the phase interface in an inhomogeneous droplet. *Technical Physics Letters*, **2015**, 41, 810-813 0.7 11
- 284 On the possibility of using a one-dimensional model for numerical analysis of the ignition of a liquid condensed material by a single heated particle. *Combustion, Explosion and Shock Waves*, **2010**, 46, 683-689 1 11
- 283 Physicochemical Processes in the Interaction Of Aerosol with the Combustion Front of Forest Fuel Materials. *Journal of Applied Mechanics and Technical Physics*, **2018**, 59, 891-902 0.6 11
- 282 Gas temperature in the trace of water droplets streamlined by hot air flow. *International Journal of Multiphase Flow*, **2017**, 91, 184-193 3.6 10

281	Combined techniques of secondary atomization of multi-component droplets. <i>Chemical Engineering Science</i> , 2019 , 209, 115199	4.4	10
280	Heat and Mass Transfer in Quenching the Reaction of Thermal Decomposition of a Forest Combustible Material with a Group of Water Drops. <i>Journal of Engineering Physics and Thermophysics</i> , 2014 , 87, 608-617	0.6	10
279	Focused sun's rays and forest fire danger: new concept 2013 ,		10
278	Photoluminescence properties of silica aerogel/porous silicon nanocomposites. <i>Journal Physics D: Applied Physics</i> , 2010 , 43, 335405	3	10
277	Numerical Analysis of Basic Regularities of Heat and Mass Transfer in a High-Temperature Heat Pipe. <i>High Temperature</i> , 2002 , 40, 898-904	0.8	10
276	Droplet evaporation on a structured surface: The role of near wall vortexes in heat and mass transfer. <i>International Journal of Heat and Mass Transfer</i> , 2020 , 148, 119126	4.9	10
275	Ignition mechanism and characteristics of gel fuels based on oil-free and oil-filled cryogels with fine coal particles. <i>Powder Technology</i> , 2020 , 360, 65-79	5.2	10
274	Composition of a gas and ash mixture formed during the pyrolysis and combustion of coal-water slurries containing petrochemicals. <i>Environmental Pollution</i> , 2021 , 285, 117390	9.3	10
273	The ignition of the bio water-coal fuel particles based on coals of different degree metamorphism. <i>Energy</i> , 2020 , 201, 117701	7.9	9
272	Mathematical and physical modeling of the coal-water fuel particle ignition with a liquid film on the surface. <i>Energy Reports</i> , 2020 , 6, 628-643	4.6	9
271	Temperature and convection velocities in two-component liquid droplet until micro-explosion. <i>Experimental Thermal and Fluid Science</i> , 2019 , 109, 109862	3	9
270	Mechanism of Liquid Drop Deformation in Subsonic Motion in a Gaseous Medium. <i>Journal of Engineering Physics and Thermophysics</i> , 2014 , 87, 1351-1361	0.6	9
269	Structural Features of Spines in Some Rodents (Rodentia: Myomorpha, Hystricomorpha). <i>Biology Bulletin</i> , 2001 , 28, 371-383	0.5	9
268	The effect of impurity particles on the forced convection velocity in a drop. <i>Powder Technology</i> , 2020 , 362, 341-349	5.2	9
267	Coagulation and splitting of droplets of coal-water slurry containing petrochemicals and their effect on ignition characteristics. <i>Applied Thermal Engineering</i> , 2017 , 116, 266-277	5.8	8
266	Dynamic characteristics of water spreading over laser-textured aluminum alloy surfaces. <i>Colloids and Surfaces A: Physicochemical and Engineering Aspects</i> , 2020 , 603, 125253	5.1	8
265	Experimental investigation of the influence of the liquid drop size and velocity on the parameters of drop deformation in air. <i>Technical Physics</i> , 2015 , 60, 1119-1125	0.5	8
264	The influence of radiation heat exchange on characteristics of liquid fuel ignition by a heated metal particle. <i>Journal of Engineering Thermophysics</i> , 2010 , 19, 1-8	1.4	8

263	Effect of the shape of a particle heated to a high temperature on the gas-phase ignition of a liquid film. <i>Russian Journal of Physical Chemistry B</i> , 2010 , 4, 249-255	1.2	8
262	Influence of polymer aging on reliability indices of a typical printed-circuit assembly of radioelectronic equipment. <i>Journal of Engineering Physics and Thermophysics</i> , 2007 , 80, 1050-1054	0.6	8
261	Conjugate heat exchange and hydrodynamics for a viscous incompressible fluid moving in a rectangular cavity. <i>Journal of Applied Mechanics and Technical Physics</i> , 2001 , 42, 851-856	0.6	8
260	Ignition of bio-water-coal fuel drops. <i>Energy</i> , 2020 , 203, 117808	7.9	8
259	Prediction of water droplet behavior on aluminum alloy surfaces modified by nanosecond laser pulses. <i>Surface and Coatings Technology</i> , 2020 , 399, 126206	4.4	8
258	Determination of temperature and concentration of a vapor-gas mixture in a wake of water droplets moving through combustion products. <i>Journal of Engineering Thermophysics</i> , 2016 , 25, 337-351	1.4	8
257	Initiation of combustion of coal particles coated with a water film in a high-temperature air flow. <i>Combustion, Explosion and Shock Waves</i> , 2016 , 52, 550-561	1	8
256	Influence of roughness on polar and dispersed components of surface free energy and wettability properties of copper and steel surfaces. <i>Surface and Coatings Technology</i> , 2021 , 422, 127518	4.4	8
255	Conditions and characteristics of mixed fuel granules ignition based on coal and finely dispersed wood. <i>Energy</i> , 2020 , 194, 116896	7.9	7
254	The evaporation of the water-sodium chlorides solution droplets on the heated substrate. <i>EPJ Web of Conferences</i> , 2014 , 76, 01039	0.3	7
253	Research of Macroscopic Regularities of Heat and Mass Transfer at the Ignition Condition of a Liquid High-Energy Material by an Immersed Source with a Limited Energy Capacity. <i>Advances in Mechanical Engineering</i> , 2014 , 6, 764537	1.2	7
252	Weber numbers at various stages of water projectile transformation during free fall in air. <i>Technical Physics Letters</i> , 2015 , 41, 1019-1022	0.7	7
251	UNSTEADY NATURAL CONVECTION OF NANOFUIDS IN AN ENCLOSURE HAVING FINITE THICKNESS WALLS. <i>Computational Thermal Sciences</i> , 2011 , 3, 427-443	1.9	7
250	Numerical Simulation of Convective Heat Transfer Modes in a Rectangular Area With a Heat Source and Conducting Walls. <i>Journal of Heat Transfer</i> , 2010 , 132,	1.8	7
249	Numerical analysis of heat-mass transfer mechanisms in gas-phase ignition of films of liquid condensed substances by a laser beam. <i>Journal of Engineering Thermophysics</i> , 2010 , 19, 85-93	1.4	7
248	Numerical analysis of heat losses by main heat pipelines under conditions of complete or partial flooding. <i>Journal of Engineering Physics and Thermophysics</i> , 2008 , 81, 323-331	0.6	7
247	High-Temperature Heat and Mass Transfer in a Layer of Moisture-Containing Fireproof Material. <i>High Temperature</i> , 2000 , 38, 921-925	0.8	7
246	Numerical simulation of gel fuel gas-phase ignition by a local source of limited heat content. <i>Acta Astronautica</i> , 2019 , 163, 44-53	2.9	6

245	Physicochemical Transformations of Mixed Fuels Based on Typical Coals and Wood upon Heating. <i>Solid Fuel Chemistry</i> , 2019 , 53, 22-28	0.7	6
244	Theoretical justification of utilization of forest waste by incineration in a composition of bio-water-coal suspensions. Ignition stage. <i>Applied Thermal Engineering</i> , 2020 , 170, 115034	5.8	6
243	Ignition of a coal particle on a heated surface. <i>Solid Fuel Chemistry</i> , 2016 , 50, 213-219	0.7	6
242	Conjugate heat transfer during viscous liquid movement in the open cavity, considering its cooling through outer boundary of back surface. <i>EPJ Web of Conferences</i> , 2014 , 76, 01023	0.3	6
241	Investigation of Regularities of Heat and Mass Transfer and Phase Transitions during Water Droplets Motion through High-Temperature Gases. <i>Advances in Mechanical Engineering</i> , 2014 , 6, 865856	1.2	6
240	Computational Investigation of Heat and Mass Transfer Processes in a Gel-Like Fuel Ignited by a Limited-Capacity Source. <i>Journal of Engineering Physics and Thermophysics</i> , 2013 , 86, 695-704	0.6	6
239	Ignition of a polymer propellant of hybrid rocket motor by a hot particle. <i>Acta Astronautica</i> , 2017 , 133, 387-396	2.9	6
238	Mathematical Simulation of Heat and Mass Transfer Processes at the Ignition of Liquid Fuel by Concentrated Flux of Radiation. <i>Mathematical Problems in Engineering</i> , 2014 , 2014, 1-7	1.1	6
237	Numerical and Experimental Research of Heat and Mass Transfer at the Heterogeneous System Ignition by Local Energy Source with Limited Heat Content. <i>Mathematical Problems in Engineering</i> , 2014 , 2014, 1-9	1.1	6
236	The conjugate problem of convective-conductive heat transfer for heat pipelines. <i>Journal of Engineering Thermophysics</i> , 2011 , 20, 217-224	1.4	6
235	Numerical solution of the problem of ignition of a combustible liquid by a single hot particle. <i>Combustion, Explosion and Shock Waves</i> , 2009 , 45, 543-550	1	6
234	Distinctive features of the gas-phase ignition of a mixture of a kerosene vapor and air by a steel wire heated to high temperatures. <i>Journal of Engineering Physics and Thermophysics</i> , 2009 , 82, 1059-1065	0.6	6
233	Numerical simulation of the thermal state of a flooded pipeline taking into account unsteadiness of the process of heat insulation saturation with moisture. <i>Thermal Engineering (English Translation of Teploenergetika)</i> , 2008 , 55, 426-430	0.8	6
232	Conjugate Heat and Mass Transfer under Conditions of Motion of a Viscous Incompressible Liquid in an Open Rectangular Cavity and Wall Melting. <i>High Temperature</i> , 2003 , 41, 252-256	0.8	6
231	Impact of Nanoporous Metal Oxide Morphology on Electron Transfer Processes in TiO ₂ /Si Heterostructures. <i>Journal of Nanoelectronics and Optoelectronics</i> , 2014 , 9, 432-436	1.3	6
230	Effect of heat treatment on corrosion of laser-textured aluminum alloy surfaces. <i>Journal of Materials Science</i> , 2021 , 56, 12845-12863	4.3	6
229	Features of the processes of heat and mass transfer when drying a large thickness layer of wood biomass. <i>Renewable Energy</i> , 2021 , 169, 498-511	8.1	6
228	Rates of High-Temperature Evaporation of Promising Fire-Extinguishing Liquid Droplets. <i>Applied Sciences (Switzerland)</i> , 2019 , 9, 5190	2.6	6

227	Influence of a wet wood particle form on the characteristics of its ignition in the high-temperature medium. <i>Renewable Energy</i> , 2020 , 145, 1474-1486	8.1	6
226	Estimation of energy consumption for drying of forest combustible materials during their preparation for incineration in the furnaces of steam and hot water boilers. <i>Energy Sources, Part A: Recovery, Utilization and Environmental Effects</i> , 2020 , 42, 1997-2005	1.6	6
225	The Main Elements of a Strategy for Combined Utilization of Industrial and Municipal Waste from Neighboring Regions by Burning it as Part of Composite Fuels. <i>Energies</i> , 2018 , 11, 2534	3.1	6
224	Mechanism of the Suppression of Sulfur Oxides in the Oxidative Thermolysis Products of Coals upon Their Combustion in a Mixture with Dispersed Wood. <i>Solid Fuel Chemistry</i> , 2020 , 54, 311-317	0.7	5
223	Multi-Criteria Efficiency Analysis of Using Waste-Based Fuel Mixtures in the Power Industries of China, Japan, and Russia. <i>Applied Sciences (Switzerland)</i> , 2020 , 10, 2460	2.6	5
222	Micro-explosion of droplets containing liquids with different viscosity, interfacial and surface tension. <i>Chemical Engineering Research and Design</i> , 2020 , 158, 129-147	5.5	5
221	Mathematical simulation of heat transfer at coniferous tree ignition by cloud-to-ground lightning discharge. <i>EPJ Web of Conferences</i> , 2014 , 76, 01028	0.3	5
220	Deformation of liquid drops moving in a gas medium. <i>Technical Physics</i> , 2015 , 60, 1443-1447	0.5	5
219	Influence of the temperature dependence of the thermophysical properties of coal/water fuel on the conditions and characteristics of ignition. <i>Solid Fuel Chemistry</i> , 2017 , 51, 160-165	0.7	5
218	Amount of Water Sufficient to Suppress Thermal Decomposition of Forest Fuel. <i>Journal of Mechanics</i> , 2017 , 33, 703-711	1	5
217	Analysis of the Characteristics of the Retardation and Entrainment of Droplets in a Polydisperse Water Flow by High-Temperature Gases Under Conditions of Intense Phase Transformations. <i>Journal of Engineering Physics and Thermophysics</i> , 2015 , 88, 937-947	0.6	5
216	Motion of fine-spray liquid droplets in hot gas flow. <i>Thermophysics and Aeromechanics</i> , 2014 , 21, 609-616	0.9	5
215	Analysis of possible reasons for macroscopic differences in the characteristics of the ignition of a model liquid fuel by a local heat source and a massive heated body. <i>Russian Journal of Physical Chemistry B</i> , 2012 , 6, 498-510	1.2	5
214	On the possibility of controlling thermal conditions of a typical element of electronic equipment with a local heat source via Natural Convection. <i>Russian Microelectronics</i> , 2010 , 39, 427-442	0.5	5
213	Numerical estimation of errors of temperature measurements by thermocouples using special glues and pastes. <i>Journal of Engineering Thermophysics</i> , 2010 , 19, 17-22	1.4	5
212	Modelling of thermogravitation convection in closed volume with local sources of heat release. <i>Thermophysics and Aeromechanics</i> , 2006 , 13, 565-574	0.9	5
211	Influence of radiative heat and mass transfer mechanism in system water droplet-high-temperature gases on integral characteristics of liquid evaporation. <i>Thermal Science</i> , 2015 , 19, 1541-1552	1.2	5
210	New approach to the heat transfer modeling in the coolant layer on the lower cover of a thermosyphon. <i>International Journal of Heat and Mass Transfer</i> , 2020 , 163, 120555	4.9	5

209	Heat transfer in a two-phase closed thermosyphon working in Polar Regions. <i>Thermal Science and Engineering Progress</i> , 2021 , 22, 100846	3.6	5
208	Experimental study of the processes of reducing the formation of sulfur oxides during the co-combustion of particles of metalnignitous coal and wood processing waste. <i>Fuel</i> , 2021 , 291, 120233	7.1	5
207	Influence of the preparation of organic coal-water fuel on its ignition. <i>Coke and Chemistry</i> , 2016 , 59, 137-145	0.5	5
206	Mechanism of Sulfur and Nitrogen Oxides Suppression in Combustion Products of Mixed Fuels Based on Coal and Wood. <i>Combustion Science and Technology</i> , 2019 , 191, 2071-2081	1.5	5
205	Fragmentation of heated droplets of coal-water slurries containing petrochemicals. <i>Applied Thermal Engineering</i> , 2021 , 195, 117190	5.8	5
204	Atomization behavior of composite liquid fuels based on typical coal processing wastes. <i>Fuel Processing Technology</i> , 2022 , 225, 107037	7.2	5
203	Heat and mass transfer at gas-phase ignition of grinded coal layer by several metal particles heated to a high temperature. <i>Thermophysics and Aeromechanics</i> , 2017 , 24, 593-604	0.9	4
202	Thermophysical and Thermokinetic Characteristics of Forest Combustible Materials. <i>Journal of Engineering Physics and Thermophysics</i> , 2019 , 92, 1355-1363	0.6	4
201	Characteristics of the Aerosol Cloud Formed during Microexplosive Fragmentation of a Two-Component Liquid Drop. <i>Technical Physics Letters</i> , 2019 , 45, 805-808	0.7	4
200	Modeling the micro-explosion of miscible and immiscible liquid droplets. <i>Acta Astronautica</i> , 2020 , 171, 69-82	2.9	4
199	Heat and mass transfer in a coal-water fuel particle at the stage of thermal treatment. <i>Thermophysics and Aeromechanics</i> , 2016 , 23, 603-612	0.9	4
198	Suppression of the Thermal Decomposition Reaction of Forest Combustible Materials in Large-Area Fires. <i>Journal of Engineering Physics and Thermophysics</i> , 2018 , 91, 411-419	0.6	4
197	Prediction of power semiconductor devices reliability working in cyclic mode. <i>EPJ Web of Conferences</i> , 2014 , 76, 01014	0.3	4
196	Definition of water droplets strain cycles in air times dependences on their sizes and movement velocities. <i>EPJ Web of Conferences</i> , 2014 , 76, 01037	0.3	4
195	Investigation of water and saline solution drops evaporation on a solid substrate. <i>MATEC Web of Conferences</i> , 2014 , 19, 01006	0.3	4
194	Experimental Study of the Ignition of Single Drops of Coal Suspensions and Coal Particles in the Oxidizer Flow. <i>Journal of Engineering Physics and Thermophysics</i> , 2017 , 90, 198-205	0.6	4
193	Mechanism of heat transfer in heterogeneous droplets of water under intense radiant heating. <i>Journal of Engineering Thermophysics</i> , 2017 , 26, 183-196	1.4	4
192	Mathematical simulation of heat transfer at deciduous tree ignition by cloud-to-ground lightning discharge. <i>EPJ Web of Conferences</i> , 2015 , 82, 01019	0.3	4

191	Experimental determination of the temperature in a small neighborhood of the gas infrared sources. <i>EPJ Web of Conferences</i> , 2015 , 82, 01021	0.3	4
190	The errors when determining thermal characteristics by the laser flash method due to the thickness of the sample and the duration of the heating pulse. <i>Measurement Techniques</i> , 2012 , 55, 454-458	0.4	4
189	Simulation of the ignition of a liquid fuel with a hot particle. <i>Russian Journal of Physical Chemistry B</i> , 2009 , 3, 441-447	1.2	4
188	Heat and mass transfer at ignition of liquid fuel droplets spreading over the surface of massive hot bodies. <i>Journal of Engineering Thermophysics</i> , 2010 , 19, 75-84	1.4	4
187	Ignition of a vapor-gas mixture by a moving small-size source. <i>Russian Journal of Physical Chemistry B</i> , 2010 , 4, 93-100	1.2	4
186	Features of water droplet deformation during motion in a gaseous medium under conditions of moderate and high temperatures. <i>High Temperature</i> , 2016 , 54, 722-730	0.8	4
185	Conditions of the Water-Coal Fuel Drop Dispersion at Their Ignition in the Conditions of High-Temperature Heating. <i>Combustion Science and Technology</i> , 2019 , 191, 2162-2184	1.5	4
184	Influence of Special Additives in a Water Aerosol on the Suppression of a Forest Fire with it. <i>Journal of Engineering Physics and Thermophysics</i> , 2018 , 91, 1250-1259	0.6	4
183	Ignition of Particles of Wet Woody Biomass under Convective Diffusion of Water Vapor in the Near-Wall Region. <i>Combustion, Explosion and Shock Waves</i> , 2018 , 54, 325-336	1	4
182	Modeling the Water Droplet Evaporation Processes with Regard to Convection, Conduction and Thermal Radiation. <i>Journal of Engineering Thermophysics</i> , 2018 , 27, 145-154	1.4	4
181	Experimentally determining the sizes of water flow droplets entrained by high-temperature gases. <i>Thermal Engineering (English Translation of Teploenergetika)</i> , 2015 , 62, 586-592	0.8	3
180	Experimental estimation of characteristic times of the existence of liquid drops in the form of a sphere and ellipse upon their movement in a gas environment under the conditions of moderate weber numbers. <i>Theoretical Foundations of Chemical Engineering</i> , 2015 , 49, 457-466	0.9	3
179	Kinetic properties of gas-phase combustion of gel fuels based on oil-filled cryogels. <i>Thermochimica Acta</i> , 2020 , 686, 178553	2.9	3
178	Transformation of Solution and Suspension Masses during Their Free Fall in Air. <i>Theoretical Foundations of Chemical Engineering</i> , 2017 , 51, 1055-1062	0.9	3
177	The High-Temperature Evaporation of Water Droplets in a Gaseous Medium. <i>Technical Physics</i> , 2017 , 62, 1908-1911	0.5	3
176	Physics of suppression of thermal decomposition of forest fuel using surface water film. <i>Journal of Engineering Thermophysics</i> , 2016 , 25, 443-448	1.4	3
175	Experimental Investigation of the Mixed Convection of a Gas in a Rectangular Enclosure with a Local Heat Source and Heat Removal at the Outer Boundaries. <i>Journal of Engineering Physics and Thermophysics</i> , 2016 , 89, 1241-1246	0.6	3
174	Deformation of a water shell during free fall in air. <i>Doklady Physics</i> , 2016 , 61, 195-200	0.8	3

173	Features of transformation of water projectiles moving through high-temperature combustion products. <i>Technical Physics Letters</i> , 2016 , 42, 256-259	0.7	3
172	The influence of the drop formation rate at spreading over a microstructured surface on the contact angle. <i>Thermophysics and Aeromechanics</i> , 2018 , 25, 237-244	0.9	3
171	Collisions between Liquid Drops of Various Shapes in a Gas Flow. <i>Technical Physics Letters</i> , 2019 , 45, 267-270	2.7	3
170	Protective Lines for Suppressing the Combustion Front of Forest Fuels: Experimental Research. <i>Chemical Engineering Research and Design</i> , 2019 , 131, 73-88	5.5	3
169	Mathematical modeling of physico-chemical processes in the polymerization of multicore cable products. <i>EPJ Web of Conferences</i> , 2014 , 76, 01024	0.3	3
168	Numerical simulation of the ignition of liquid fuel with a limited-energy source under turbulent flow conditions. <i>Russian Journal of Physical Chemistry B</i> , 2013 , 7, 302-312	1.2	3
167	Application of the planar laser-induced fluorescence method to determine the temperature field of water droplets under intensive heating. <i>Journal of Engineering Thermophysics</i> , 2017 , 26, 325-338	1.4	3
166	Determination of the Volume of Water for Suppressing the Thermal Decomposition of Forest Combustibles. <i>Journal of Engineering Physics and Thermophysics</i> , 2017 , 90, 789-796	0.6	3
165	Influence of the form of a solid inclusion in an inhomogeneous liquid droplet on the conditions of its explosive destruction under intense heat exchange. <i>Doklady Physics</i> , 2015 , 60, 428-431	0.8	3
164	Evaporation of Water in the Process of Movement of its Large Masses Through a High-Temperature Gas Medium. <i>Journal of Engineering Physics and Thermophysics</i> , 2015 , 88, 1145-1153	0.6	3
163	Efficient control over heat transfer and hydrodynamics in closed regions due to optimal selection of materials for enclosure walls and external heat load. <i>Russian Microelectronics</i> , 2011 , 40, 326-332	0.5	3
162	Numerical modeling of temperature fields in the elements and units of electronic systems. <i>Russian Microelectronics</i> , 2009 , 38, 312-319	0.5	3
161	The effect of the form of the transverse cross section of the laser beam on the error in determining thermal characteristics by the pulse method. <i>Measurement Techniques</i> , 2010 , 53, 674-678	0.4	3
160	Numerical modeling of the heat transfer mechanism in intumescent heat- and fire-protection materials. <i>Combustion, Explosion and Shock Waves</i> , 1998 , 34, 326-329	1	3
159	Mathematical modeling of convective-conductive heat transfer in a rectangular domain in a conjugate statement. <i>Journal of Engineering Thermophysics</i> , 2007 , 16, 270-275	1.4	3
158	Mathematical simulation of conjugate mixed convection in a rectangular region with a heat source. <i>Journal of Applied Mechanics and Technical Physics</i> , 2008 , 49, 946-956	0.6	3
157	On the structure of rodent communities in tropical forests of southern Vietnam. <i>Biology Bulletin</i> , 2008 , 35, 515-523	0.5	3
156	High-temperature heat and mass transfer in a layer of coke of heat-shielding materials. <i>High Temperature</i> , 2000 , 38, 629-635	0.8	3

155	Micro-explosion of a two-component droplet: How the initial temperature of the water core affects the breakup conditions and outcomes. <i>Powder Technology</i> , 2021 , 382, 378-387	5.2	3
154	Conditions of Intensive Evaporation of Heterogeneous Water Droplet in High Temperature Gas Environment. <i>Journal of Mechanics</i> , 2016 , 32, 349-355	1	3
153	Interaction of Water and Suspension Droplets during Their Collisions in a Gas Medium. <i>Theoretical Foundations of Chemical Engineering</i> , 2019 , 53, 769-780	0.9	3
152	Benefits of Slurry Fuels Based on Industrial Wastes. <i>Coke and Chemistry</i> , 2019 , 62, 422-432	0.5	3
151	Justification of the possibility of car tires recycling as part of coal-water composites. <i>Journal of Environmental Chemical Engineering</i> , 2021 , 9, 104741	6.8	3
150	Influence of the degree of coal metamorphism on characteristics and conditions of ignition of coal-water fuel drops. <i>Thermophysics and Aeromechanics</i> , 2018 , 25, 773-788	0.9	3
149	Relative energy efficiency indicators calculated for high-moisture waste-based fuel blends using multiple-criteria decision-making. <i>Energy</i> , 2021 , 234, 121257	7.9	3
148	Numerical study of the effect of burnout on the ignition characteristics of polymer under local heating. <i>Combustion, Explosion and Shock Waves</i> , 2017 , 53, 176-186	1	2
147	Effect of the Angular and Linear Parameters of Interaction of Water Droplets of Various Shapes on the Characteristics of Their Collisions. <i>Journal of Applied Mechanics and Technical Physics</i> , 2019 , 60, 650-660	0.6	2
146	Influence of the initial parameters of liquid droplets on their evaporation process in a region of high-temperature gas. <i>Journal of Applied Mechanics and Technical Physics</i> , 2015 , 56, 248-256	0.6	2
145	Computational Modeling of Conjugate Heat Transfer in a Closed Rectangular Domain Under the Conditions of Radiant Heat Supply to the Horizontal and Vertical Surfaces of Enclosure Structures. <i>Journal of Engineering Physics and Thermophysics</i> , 2015 , 88, 168-177	0.6	2
144	Mathematical Simulation of the Heat and Mass Transfer in the Movement of Liquid Droplets in a Gas Medium Under the Conditions of their Intense Phase Transformations. <i>Journal of Engineering Physics and Thermophysics</i> , 2020 , 93, 1055-1076	0.6	2
143	Movement and evaporation of water droplets under conditions typical for heat-exchange chambers of contact water heaters. <i>Thermal Engineering (English Translation of Teploenergetika)</i> , 2016 , 63, 666-673	0.8	2
142	Reliability analysis of electrical engineering power semiconductor devices. <i>Russian Electrical Engineering</i> , 2016 , 87, 235-239	0.5	2
141	Numerical analysis of thermogravitational turbulent convection in a closed rectangular region with radiation source of energy. <i>Thermophysics and Aeromechanics</i> , 2016 , 23, 393-401	0.9	2
140	Experimental Determination of the Fire-Break Size and Specific Water Consumption for Effective Containment and Complete Suppression of the Front Propagation of a Typical Local Wildfire. <i>Journal of Applied Mechanics and Technical Physics</i> , 2019 , 60, 68-79	0.6	2
139	Increase resource power electronics module on the physics of failure method. <i>MATEC Web of Conferences</i> , 2014 , 19, 01028	0.3	2
138	Characteristics of the ignition of organic coal-water fuels for boiler installations. <i>Solid Fuel Chemistry</i> , 2017 , 51, 95-100	0.7	2

137	Experimental Study of the Conditions for Quenching Forest Combustible Materials. <i>Journal of Engineering Physics and Thermophysics</i> , 2017 , 90, 511-520	0.6	2
136	Calculation of the characteristics of the ignition of a metallized composite propellant using various methods for describing its thermophysical properties. <i>Russian Journal of Physical Chemistry B</i> , 2017 , 11, 133-139	1.2	2
135	Limited transverse sizes of a droplet cloud under disintegration of a water mass during its fall from a great height. <i>Doklady Physics</i> , 2017 , 62, 333-336	0.8	2
134	Ignition of a composite propellant by a hot particle under conditions of a nonideal thermal contact. <i>Russian Journal of Physical Chemistry B</i> , 2015 , 9, 631-636	1.2	2
133	Criterion expressions for conditions and deceleration and subsequent entrainment of water drops by high-temperature gases. <i>Technical Physics</i> , 2015 , 60, 1310-1315	0.5	2
132	Ignition of polymeric material with single hot metallic and nonmetallic particles under diffusive-convective heat and mass transfer in an oxidizing medium. <i>Russian Journal of Physical Chemistry B</i> , 2014 , 8, 664-671	1.2	2
131	The errors in determining the thermal characteristics of semitransparent materials by a pulse method. <i>Measurement Techniques</i> , 2012 , 55, 1057-1060	0.4	2
130	Conjugate heat and mass transfer at gas-phase ignition of a cable line under current overload. <i>Journal of Engineering Thermophysics</i> , 2011 , 20, 192-200	1.4	2
129	Numerical modeling of temperature fields in cylindrical articles during vulcanization. <i>Chemical and Petroleum Engineering (English Translation of Khimicheskoe i Neftyanoe Mashinostroenie)</i> , 2011 , 47, 447-450	0.6	2
128	Heat and mass transfer in hot-particle-induced ignition of a liquid-fuel vapor entering the ambient air from the surface of fabric impregnated with the fuel. <i>Journal of Engineering Physics and Thermophysics</i> , 2009 , 82, 448-455	0.6	2
127	Gas-phase ignition of a film of liquid condensed substance by a metal particle heated to high temperatures under mixed-convection conditions. <i>Journal of Engineering Physics and Thermophysics</i> , 2009 , 82, 1066-1072	0.6	2
126	On the scale of simultaneous influence of several hot particles on the conditions of heat and mass transfer at ignition of liquid condensed substance. <i>Journal of Engineering Thermophysics</i> , 2009 , 18, 263-270	1.4	2
125	Conjugate Natural Convection in a Closed Domain Containing a Heat-Releasing Element with a Constant Heat-Release Intensity. <i>Journal of Applied Mechanics and Technical Physics</i> , 2010 , 51, 699-712	0.6	2
124	Numerical modeling of high-temperature heat and mass transfer at laser nitriding of titanium. <i>Journal of Engineering Thermophysics</i> , 2007 , 16, 73-77	1.4	2
123	Mathematical modelling of heat and mass transfer under conditions of mixed convection in rectangular region with heat source and heat-conducting walls. <i>Thermophysics and Aeromechanics</i> , 2008 , 15, 99-112	0.9	2
122	Conjugate heat transfer in a closed domain with a locally lumped heat-release source. <i>Journal of Engineering Physics and Thermophysics</i> , 2006 , 79, 57-64	0.6	2
121	INFLUENCE OF WATER DROPLETS DISTRIBUTION IN THE "WATER SHELL" ON TEMPERATURE IN FOLLOW MOVEMENT. <i>Pozharovzryvobezopasnost/Fire and Explosion Safety</i> , 2013 , 22, 9-17	0.5	2
120	Ignition of particles of finely dispersed fuel mixtures based on coal and fine wood. <i>Energy</i> , 2021 , 220, 119697	7.9	2

119	Determining water content in a liquid fuel by the luminosity of its droplet. <i>Chemical Engineering Science</i> , 2021 , 233, 116415	4.4	2
118	The critical atomization conditions of high-potential fire suppressant droplets in an air flow. <i>Powder Technology</i> , 2021 , 384, 505-521	5.2	2
117	Experimental determination of the worker's clothing surface temperature during the ceramic gas heater operation. <i>Thermal Science and Engineering Progress</i> , 2021 , 22, 100851	3.6	2
116	Influence of the "Self-Radiation" of Combustion Products on the Intensity of Evaporation of an Inhomogeneous Water Droplet in the Flame. <i>Journal of Engineering Physics and Thermophysics</i> , 2016 , 89, 799-807	0.6	2
115	Explosive Decay of Emulsion Drops Based on Water and Oil Products under Conditions of High-Temperature Purification of Liquids. <i>Doklady Physics</i> , 2018 , 63, 462-466	0.8	2
114	Extinguishing a Ground Forest Fire by Spraying Water Over its Edge. <i>Journal of Engineering Physics and Thermophysics</i> , 2018 , 91, 758-765	0.6	2
113	Physicochemical features of the effect of special water-based fire retardants on forest materials. <i>Fire Safety Journal</i> , 2021 , 123, 103371	3.3	2
112	Ignition of coal-water fuel droplets with addition of isopropyl alcohol. <i>International Journal of Energy Research</i> , 2021 , 45, 1535-1549	4.5	2
111	Experimental Study of the Influence of the Concentration of Organic Water-Coal Fuel Components on the Integral Ignition Characteristics. <i>Journal of Engineering Physics and Thermophysics</i> , 2017 , 90, 217-228	0.6	1
110	Prediction of minimum water amount to stop thermal decomposition of forest fuel. <i>Journal of Engineering Thermophysics</i> , 2017 , 26, 139-145	1.4	1
109	Evaporation of aqueous suspension drops with ground admixtures in the region of high-temperature combustion products. <i>Theoretical Foundations of Chemical Engineering</i> , 2017 , 51, 468-473	0.9	1
108	Prognosis Model for Investigating the Evaporation of Water Droplets. <i>Journal of Engineering Physics and Thermophysics</i> , 2019 , 92, 907-915	0.6	1
107	Experimental Study of Regularities in Suppression of Flame Combustion and Thermal Decomposition of Forest Combustible Materials Using Aerosols of Different Dispersiveness. <i>Journal of Engineering Thermophysics</i> , 2019 , 28, 43-55	1.4	1
106	Effect of the Kinetic Model of Pyrolysis on Prognostic Estimates of Ignition Characteristics of Wood Particles. <i>Combustion, Explosion and Shock Waves</i> , 2019 , 55, 197-209	1	1
105	Warming-up and evaporation characteristics of homogeneous and heterogeneous water droplets. <i>International Journal of Heat and Mass Transfer</i> , 2019 , 138, 1061-1074	4.9	1
104	Effect of Errors of Determination of Thermochemical and Thermophysical Characteristics of Insulating Materials on Integral Process Parameters of their Polymerization. <i>Chemical and Petroleum Engineering (English Translation of Khimicheskoe i Neftyanoe Mashinostroenie)</i> , 2015 , 51, 164-170	0.6	1
103	Influence of forest fuel structure on thermophysical characteristics. <i>Powder Technology</i> , 2020 , 366, 832-839	3.9	1
102	The effect of the interface length on the evaporation rate of a horizontal liquid layer under a gas flow. <i>Thermophysics and Aeromechanics</i> , 2020 , 27, 117-121	0.9	1

101	Influence of the Concentration of Water Droplets in an Aerosol Cloud on the Characteristics of their Collisional Interaction. <i>Journal of Engineering Physics and Thermophysics</i> , 2020 , 93, 298-309	0.6	1
100	Evaporation of Water Droplets Moving Through High-Temperature Gases. <i>Journal of Engineering Physics and Thermophysics</i> , 2018 , 91, 97-103	0.6	1
99	Effect of the thermophysical properties of the material of a local energy source on conditions and characteristics of ignition of metallized composite propellants. <i>Russian Journal of Physical Chemistry B</i> , 2016 , 10, 946-952	1.2	1
98	Experimental determination of the retention time of reduced temperature of gas-vapor mixture in trace of water droplets moving in counterflow of combustion products. <i>Technical Physics Letters</i> , 2016 , 42, 644-648	0.7	1
97	Interaction of a Liquid Aerosol with the Combustion Front of a Forest Combustible Material Under the Conditions of Countercurrent Air Flow. <i>Journal of Engineering Physics and Thermophysics</i> , 2019 , 92, 687-693	0.6	1
96	Charge transport in Si-SiO ₂ and Si-TiO ₂ nanocomposite structures. <i>Semiconductors</i> , 2014 , 48, 1335-1341	0.7	1
95	Experimental estimation of evaporation rates of water droplets in high-temperature gases. <i>Journal of Applied Mechanics and Technical Physics</i> , 2017 , 58, 889-894	0.6	1
94	Initiation of Combustion of a Gel-Like Condensed Substance by a Local Source of Limited Power. <i>Journal of Engineering Physics and Thermophysics</i> , 2017 , 90, 206-216	0.6	1
93	Experimental Determination of Conditions for the Explosive Fragmentation of a Heterogeneous Water Droplet in Heating in a High-Temperature Gas Medium. <i>Journal of Engineering Physics and Thermophysics</i> , 2017 , 90, 625-633	0.6	1
92	Simulation of the process of coal dust ignition in the presence of metal particles. <i>Solid Fuel Chemistry</i> , 2017 , 51, 24-31	0.7	1
91	Effect of the content of salt admixtures on integral characteristics of evaporation of water drops moving through high-temperature gas media. <i>Journal of Engineering Thermophysics</i> , 2015 , 24, 237-246	1.4	1
90	Modeling of ¹⁴ C Diffusion from the Core of the Decommissioned ad Reactor. <i>Atomic Energy</i> , 2015 , 118, 346-350	0.4	1
89	Influence of the Temperature of Gases on the Deformation Characteristics of Moving Water Droplets. <i>Journal of Engineering Physics and Thermophysics</i> , 2015 , 88, 797-805	0.6	1
88	Numerical Analysis of Integral Characteristics for the Condenser Setups of Independent Power-Supply Sources with the Closed-Looped Thermodynamic Cycle. <i>Mathematical Problems in Engineering</i> , 2015 , 2015, 1-7	1.1	1
87	Morphophysiological and behavioral adaptations of elk to wintering. <i>Biology Bulletin</i> , 2015 , 42, 371-377	0.5	1
86	Influence of Sample Dimensions on Errors in Determining the Thermal Diffusivity of Semitransparent Semiconducting Materials by the Laser-Pulse Method. <i>Journal of Engineering Physics and Thermophysics</i> , 2014 , 87, 1392-1397	0.6	1
85	Numerical Analysis of Effective Conditions of Chemical Reaction Suppression during Typical Forest Fuel Material Combustion. <i>Applied Mechanics and Materials</i> , 2014 , 692, 267-271	0.3	1
84	Factors influencing dominance structure of common rodent species in Vietnamese tropical forests. <i>Biology Bulletin</i> , 2012 , 39, 556-562	0.5	1

83	On peculiarities of heat and mass transfer in a hot metal particle-liquid fuel condensed substance-air system. <i>Journal of Engineering Thermophysics</i> , 2009 , 18, 241-248	1.4	1
82	The Rayleigh-Benard instability in an enclosure having finite thickness walls. <i>Journal of Physics: Conference Series</i> , 2010 , 216, 012010	0.3	1
81	Numerical simulation of laser ignition of a liquid fuel film. <i>Russian Journal of Physical Chemistry B</i> , 2010 , 4, 664-670	1.2	1
80	Similarity between high-temperature destruction of rubber-like thermal protective materials in gas flows and erosion combustion of powders. <i>Combustion, Explosion and Shock Waves</i> , 1998 , 34, 58-62	1	1
79	Steel desulfuration during processing in a ladle furnace nit. <i>Russian Metallurgy (Metally)</i> , 2008 , 2008, 674-676	0.5	1
78	On the inhomogeneity of the temperature fields in the cross section of thermal tubes. <i>Journal of Engineering Physics and Thermophysics</i> , 2006 , 79, 377-383	0.6	1
77	Numerical Analysis of the Influence of Natural Convection on the Process of Condensation of Atmospheric Pollutant Compounds on the Surface of Near-Ground Plants. <i>Journal of Engineering Physics and Thermophysics</i> , 2004 , 77, 939-946	0.6	1
76	Experimental estimation of the strength of the coke of a charring, rubber-like, heat-shield material. <i>Combustion, Explosion and Shock Waves</i> , 1996 , 32, 595-600	1	1
75	INFLUENCE OF SPECIALIZED ADDITIVES ON THE EFFICIENCY OF LOCALIZATION OF FLAME BURNING AND THERMAL DECOMPOSITION OF FOREST FUEL MATERIALS. <i>Pozharovzryvbezopasnost/Fire and Explosion Safety</i> , 2018 , 27, 5-16	0.5	1
74	Influence of the Method of Water Supply to the Zone of a Forest Fire on the Efficiency of its Extinguishing. <i>Journal of Engineering Physics and Thermophysics</i> , 2020 , 93, 1460-1469	0.6	1
73	Experimental research and numerical simulation of gel fuel ignition by a hot particle. <i>Fuel</i> , 2021 , 291, 120172	7.1	1
72	Experimental research of the vapor zone between two coalescing droplets of heated water. <i>International Communications in Heat and Mass Transfer</i> , 2021 , 126, 105410	5.8	1
71	Experimental estimation of the influence of the droplet evaporation process on the conditions of movement in an oncoming high-temperature gas flow. <i>High Temperature</i> , 2016 , 54, 555-559	0.8	1
70	The ranges of the aerodynamic drag coefficient of water droplets moving through typical gas media. <i>Journal of Engineering Thermophysics</i> , 2016 , 25, 32-44	1.4	1
69	Ignition of granulated mixed fuel based on lignite and wood waste. <i>Journal of Physics: Conference Series</i> , 2019 , 1359, 012134	0.3	1
68	Reasons for tangerine peel utilization in the composition of mixed fuels based on bituminous coal. <i>Journal of Physics: Conference Series</i> , 2019 , 1359, 012136	0.3	1
67	Experimental Investigation of the Suppression of Crown and Ground Forest Fires. <i>Journal of Engineering Physics and Thermophysics</i> , 2019 , 92, 1453-1465	0.6	1
66	Justification of Reducing the Yield of Sulfur Oxides in the Pyrolysis of Coals with the Addition of Logging Waste. <i>Solid Fuel Chemistry</i> , 2022 , 56, 45-52	0.7	1

65	Conditions and Characteristics of High-Temperature Processes of Ebullition and Disintegration of Droplets of Water Emulsions. <i>Journal of Engineering Physics and Thermophysics</i> , 2019 , 92, 249-259	0.6	o
64	Studying gas temperature variation upon aerosol injection. <i>Technical Physics Letters</i> , 2017 , 43, 301-304	0.7	o
63	Numerical solution to the plane heat-mass transfer problem in a system of focused radiation flux-liquid condensed substance film-oxidizer. <i>Journal of Engineering Thermophysics</i> , 2011 , 20, 34-41	1.4	o
62	Conjugate mixed convection under mass-transfer conditions. <i>Journal of Engineering Physics and Thermophysics</i> , 2009 , 82, 890-899	0.6	o
61	Effect of thermodiffusion on convective heat and mass transfer in enclosures with heat-conducting walls. <i>Journal of Engineering Thermophysics</i> , 2010 , 19, 111-118	1.4	o
60	Special Features of the Thermophysical Modeling of Instrument Cubicles of Spacecraft. <i>Journal of Engineering Physics and Thermophysics</i> , 2001 , 74, 1431-1436	0.6	o
59	Suppressing the thermal decomposition of forest fuel using the different water spraying schemes. <i>Thermal Science</i> , 2019 , 23, 3263-3273	1.2	o
58	Localization of Ground, Crown, and Combined Forest Fires with the Use of a Barrier Strip. <i>Journal of Engineering Physics and Thermophysics</i> , 2020 , 93, 626-634	0.6	o
57	Suppression of Flaming Combustion and Thermal Decomposition of Condensed Matter at Different Heights of the Beginning of Water Array Motion. <i>Combustion, Explosion and Shock Waves</i> , 2020 , 56, 83-91	1	o
56	Micro-explosion of droplets containing liquids with different viscosity, interfacial and surface tension. <i>Chemical Engineering Research and Design</i> , 2021 , 165, 478	5.5	o
55	Applying composite fuels based on coal and finely dispersed wood in heat power engineering. <i>Journal of Physics: Conference Series</i> , 2018 , 1128, 012064	0.3	o
54	Effect of Specific Water Consumption on Suppression of Combustion and Thermal Decomposition of Forest Combustible Materials. <i>Doklady Physics</i> , 2018 , 63, 508-512	0.8	o
53	Mathematical Simulation of Ignition of an Organic Coal/Water Fuel Droplet. <i>Journal of Engineering Physics and Thermophysics</i> , 2021 , 94, 949	0.6	o
52	Impact of Sawmill Waste on SO ₂ Emissions from Co-firing with Lignite. <i>Combustion Science and Technology</i> , 1-17	1.5	o
51	Ignition of a group of the woody biomass particles. <i>Thermal Science and Engineering Progress</i> , 2021 , 25, 101017	3.6	o
50	Analysis of the effectiveness of the systems for providing thermal conditions of the local working areas based on the gas infrared emitters. <i>Journal of Physics: Conference Series</i> , 2020 , 1677, 012120	0.3	
49	Determination of the Density and Intensity of Irrigation of Forest Combustible Material before the Combustion Front When Creating an Effective Control Line. <i>Technical Physics</i> , 2020 , 65, 555-559	0.5	
48	Characteristics of the Flying of Forest Combustible Materials Upstream of a Fire Barrage Under the Action of an Air Flow. <i>Journal of Engineering Physics and Thermophysics</i> , 2020 , 93, 114-121	0.6	

- 47 Methodological Errors of Defining the Thermophysical Characteristics of Materials Using the Laser Pulse Method at High Temperatures. *Measurement Techniques*, **2018**, 60, 1032-1037 0.4
- 46 The effect of gas and water droplet temperature on characteristics of water-droplet deformation at moderate velocities of droplet movement. *Theoretical Foundations of Chemical Engineering*, **2016**, 50, 746-756 0.9
- 45 Influence of the Duration of Thermal Action on the Errors in Determining the Thermophysical Characteristics of Ceramic Materials by a Laser Pulse Method. *Journal of Engineering Physics and Thermophysics*, **2016**, 89, 728-732 0.6
- 44 Corrosion Effect on Concrete Barrier Life of a Decommissioned AD Reactor. *Atomic Energy*, **2016**, 121, 49-55 0.4
- 43 Experimental Investigation of the Change in Temperature at the Center of a Water Droplet in the Process of Evaporation in Heated Air. *Journal of Engineering Physics and Thermophysics*, **2016**, 89, 548-552 0.6
- 42 Mathematical modeling of heat and mass transfer processes at the ignition of a liquid condensed substance by an immersed hot particle. *EPJ Web of Conferences*, **2014**, 76, 01025 0.3
- 41 Mixed Convection in Technological Reservoir of Thermal Power Station. *MATEC Web of Conferences*, **2014**, 19, 01005 0.3
- 40 Numerical Investigation of the Influence of the Geometric Dimensions of a Thermosyphon on the Efficiency of Heat Transfer. *Chemical and Petroleum Engineering (English Translation of Khimicheskoe i Neftyanoe Mashinostroenie)*, **2017**, 53, 435-440 0.6
- 39 Mathematical modeling of thermal modes of thermosyphons in operation with characteristic heat loads of aircraft equipment batteries. *Russian Aeronautics*, **2017**, 60, 251-256 0.3
- 38 On the Mechanism of Interaction of Two Water Droplets Moving Successively at a Small Distance from Each Other in a High-Temperature Gas Medium. *Journal of Engineering Physics and Thermophysics*, **2017**, 90, 134-139 0.6
- 37 Specific features in the transformation of liquid drops during their motion in a gas medium. *Theoretical Foundations of Chemical Engineering*, **2017**, 51, 359-367 0.9
- 36 Regularities in Evaporation and Carryover of Polydisperse Water Flow Droplets During Motion Through High-Temperature Gases. *Chemical and Petroleum Engineering (English Translation of Khimicheskoe i Neftyanoe Mashinostroenie)*, **2015**, 51, 456-462 0.6
- 35 Experimental determination of water droplet strain cycles characteristic in the gas area. *EPJ Web of Conferences*, **2015**, 82, 01022 0.3
- 34 Numerical research of heat and mass transfer at the ignition of system fabric combustible liquid oxidant by the local energy source. *EPJ Web of Conferences*, **2015**, 82, 01038 0.3
- 33 Numerical study of the viscous drop spreading process when transferring heat to a substrate of simple geometry. *EPJ Web of Conferences*, **2015**, 82, 01056 0.3
- 32 Numerical Research on the Influence of Autonomous Power Plant Condenser Design on Two-Phase Stream Parameters. *Advanced Materials Research*, **2014**, 1040, 547-552 0.5
- 31 Numerical Research of Heat and Mass Transfer Processes in Water Vapors and Gaseous Thermal Decomposition Products Mixture above the Combustible Wood on the Conditions of Chemical Reaction Termination in it. *Advanced Materials Research*, **2014**, 1040, 535-540 0.5
- 30 Mathematical Modeling of Dispersed Condensed Substance Ignition by Local Energy Source. *Advanced Materials Research*, **2014**, 1040, 489-494 0.5

29	Numerical Research of Physical and Chemical Processes at Polymeric Material Ignition by Several Hot Particles. <i>Advanced Materials Research</i> , 2014 , 1040, 541-546	0.5
28	Study of turbulent swirling flow in a rotating separation element of variable cross section. <i>Thermophysics and Aeromechanics</i> , 2009 , 16, 229-238	0.9
27	The Rayleigh-Benard convection in an enclosure with walls of finite thickness. <i>Mathematical Models and Computer Simulations</i> , 2010 , 2, 349-358	0.8
26	Turbulent regime of thermogravitational convection in a closed cavity. <i>Journal of Engineering Physics and Thermophysics</i> , 2010 , 83, 346-357	0.6
25	Numerical modeling of the effect of heat and mass transfer in porous low-temperature heat insulation in composite material structures on the magnitude of stresses which develop. <i>Mechanics of Composite Materials</i> , 1997 , 33, 275-281	1.1
24	High-temperature destruction of composite materials during intense heat and gasdynamical action. <i>Mechanics of Composite Materials</i> , 1998 , 34, 80-86	1.1
23	Conjugate problem of thermogravitational convection in a rectangular region with a local heat source. <i>Journal of Engineering Physics and Thermophysics</i> , 2008 , 81, 92-99	0.6
22	Effect of Composition and Combustion of Metallized Solid Fuels on Intensity of Failure of Structural Materials Due to a Jet of Combustion Products. <i>Combustion, Explosion and Shock Waves</i> , 2002 , 38, 687-692	1
21	The Behavior of Composite Material Reinforced with Carbon Fibers under the Effect of High-Temperature Gas Flow. <i>High Temperature</i> , 2001 , 39, 879-883	0.8
20	Numerical estimation of the efficiency of thermal insulation for the main elements of an aerospace vehicle. <i>Journal of Engineering Physics and Thermophysics</i> , 1996 , 69, 263-268	0.6
19	Mathematical modeling of nonstationary thermophysical processes in spacecraft onboard-apparatus bays. <i>Russian Physics Journal</i> , 1993 , 36, 392-399	0.7
18	Control of defect parameters of 300D90 pumps after overhaul. <i>Chemical and Petroleum Engineering (English Translation of Khimicheskoe i Neftyanoe Mashinostroyeniye)</i> , 1983 , 19, 338-339	0.6
17	Interaction of Typical Fire-Extinguishing Liquids with the Forest Fuel Combustion Front. <i>Journal of Engineering Physics and Thermophysics</i> , 2021 , 94, 1395-1399	0.6
16	Effect of mechanical polishing of aluminum alloy surfaces on wetting and droplet evaporation at constant and cyclically varying pressure in the chamber. <i>Journal of Materials Science</i> , 2021 , 56, 20154	4.3
15	Peculiarities of using slurry fuels in thermal power plants. <i>Thermal Science</i> , 2019 , 23, 2047-2057	1.2
14	Features of propagation of droplets of water and special water-based compositions in a sample of forest fuel material. <i>Thermal Science</i> , 2019 , 23, 3339-3350	1.2
13	Mathematical Definition of the Transition Boundaries Between Collision Regimes of Droplets. <i>Journal of Engineering Physics and Thermophysics</i> , 2021 , 94, 1147	0.6
12	Numerical simulation of heat transfer in a large room with a working gas infrared emitter. <i>Journal of Physics: Conference Series</i> , 2020 , 1675, 012074	0.3

- 11 New approach to the mathematical modeling of thermal regimes for electronic equipment **2010**, 37, 131
- 10 Suppression Characteristics of Flaming Combustion and Thermal Decomposition of Forest Fuels. *Combustion, Explosion and Shock Waves*, **2020**, 56, 163-171 1
- 9 Temperature Fields of Two-Liquid Droplets Moving in Preheated Medium before Micro-Explosive Fragmentation. *Journal of Engineering Thermophysics*, **2020**, 29, 234-244 1.4
- 8 Mechanisms of Heat and Mass Transfer in the Localization of Ground Forest Fires with the Use of Barrier Strips. *Journal of Engineering Physics and Thermophysics*, **2021**, 94, 775-789 0.6
- 7 Low-temperature ignition of droplets of suspension organic water-carbon fuels. *Doklady Physics*, **2016**, 61, 321-326 0.8
- 6 Analysis of conditions for determining the thermophysical characteristics of energetic materials by the laser pulse method. *Russian Journal of Physical Chemistry B*, **2016**, 10, 978-982 1.2
- 5 Peculiarities of heat transfer in water droplets with a solid inclusion during heating in a high-temperature gas medium. *Journal of Engineering Thermophysics*, **2016**, 25, 45-54 1.4
- 4 Influence of wood component on physical and chemical transformations during high temperature heating of composite fuel based on bituminous coal. *Journal of Physics: Conference Series*, **2018**, 1128, 012081 0.3
- 3 Conditions for Explosive Disintegration of Inhomogeneous Water Droplets on High-Temperature Heating. *Journal of Engineering Physics and Thermophysics*, **2018**, 91, 1496-1504 0.6
- 2 Effect of Diffusion of Coal Pyrolysis Products on the Ignition Characteristics and Conditions of Coal-Water Fuel Droplets. *Combustion, Explosion and Shock Waves*, **2018**, 54, 654-663 1
- 1 Influence of the Density of a Forest Combustible Material on the Suppression of its Thermal Decomposition by a Liquid Aerosol. *Journal of Engineering Physics and Thermophysics*, **2018**, 91, 907-912 0.6