Sergey E Yakush

List of Publications by Year
in descending order

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53	320	933447 10	996975 15
papers	citations	h-index	g-index

55	55	55	128
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	Combustion of two-phase hydrocarbon fuel clouds released into the atmosphere. Combustion and Flame, 1999, 118, 583-605.	5.2	31
2	The effect of self-leveling on debris bed coolability under severe accident conditions. Nuclear Engineering and Design, 2016, 305, 246-259.	1.7	19
3	Large-scale unconfined fires and explosions. Proceedings of the Combustion Institute, 2002, 29, 195-210.	3.9	18
4	Experimental Study on Cellular Premixed Propane Flames in a Narrow Gap between Parallel Plates. Combustion Science and Technology, 2019, 191, 1256-1275.	2.3	18
5	Modelling of Formation and Combustion of Accidentally Released Fuel Clouds. Chemical Engineering Research and Design, 2005, 83, 171-177.	5.6	17
6	Model for blast waves of Boiling Liquid Expanding Vapor Explosions. International Journal of Heat and Mass Transfer, 2016, 103, 173-185.	4.8	17
7	Coolability of heat-releasing debris bed. Part 1: Sensitivity analysis and model calibration. Annals of Nuclear Energy, 2013, 52, 59-71.	1.8	14
8	Experimental investigation of particulate debris spreading in a pool. Nuclear Engineering and Design, 2016, 297, 208-219.	1.7	13
9	Steam generator tube rupture in lead-cooled fast reactors: Estimation of impact on neighboring tubes. Nuclear Engineering and Design, 2019, 341, 198-208.	1.7	13
10	Numerical Modelling of Fireballs from Vertical Releases of Fuel Gases. Combustion Science and Technology, 1998, 132, 199-223.	2.3	12
11	VAPEX code-aided analysis of large-scale experiments in corium/water interaction. High Temperature, 2007, 45, 509-517.	1.0	10
12	Fireball during combustion of hydrocarbon fuel releases. I. Structure and lift dynamics. Combustion, Explosion and Shock Waves, 1999, 35, 219-229.	0.8	8
13	Fireball during combustion of hydrocarbon fueld releases II. Thermal radiation. Combustion, Explosion and Shock Waves, 1999, 35, 359-369.	0.8	8
14	Stabilization of solid fuel combustion in a ramjet engine. Journal of Physics: Conference Series, 2017, 815, 012008.	0.4	8
15	Coolability of heat-releasing debris bed. Part 2: Uncertainty of dryout heat flux. Annals of Nuclear Energy, 2013, 52, 72-79.	1.8	7
16	Combustion of unconfined hydrocarbon vapor-droplet clouds. Proceedings of the Combustion Institute, 2000, 28, 2851-2858.	3.9	6
17	Blast waves and fireballs from bursts of vessels with pressure-liquefied hydrocarbons. Proceedings of the Combustion Institute, 2002, 29, 313-320.	3.9	6
18	Experimental and numerical study of transient compartment fires. Combustion, Explosion and Shock Waves, 2006, 42, 723-730.	0.8	6

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19	The Splashing of Melt upon the Impact of Water Droplets and Jets. Applied Sciences (Switzerland), 2021, 11, 909.	2.5	6
20	Modelling of atmospheric pollution by explosions. Environmental Software, 1995, 10, 117-127.	0.3	5
21	Numerical analysis of laminar combustion of fuel gas clouds. Combustion and Flame, 1999, 118, 669-683.	5.2	5
22	Validation of Fuel-Coolant Interaction Model for Severe Accident Simulations. Science and Technology of Nuclear Installations, 2011, 2011, 1-11.	0.8	5
23	A Model for Prediction of Maximum Post-Dryout Temperature in Decay-Heated Debris Bed. , 2014, , .		5
24	Combustion stability in a solid-fuel ramjet engine. Journal of Physics: Conference Series, 2018, 1009, 012032.	0.4	5
25	Pressure Waves due to Rapid Evaporation of Water Droplet in Liquid Lead Coolant. Science and Technology of Nuclear Installations, 2018, 2018, 1-10.	0.8	5
26	Hugoniot analysis of experimental data on steam explosion in stratified melt-coolant configuration. Nuclear Engineering and Design, 2019, 347, 151-157.	1.7	5
27	Numerical modeling of the ascent of a turbulent thermal in an inhomogeneous compressible atmosphere. Fluid Dynamics, 1989, 24, 59-66.	0.9	4
28	Turbulent buoyant thermal in a densitystratified atmosphere. International Journal of Heat and Mass Transfer, 1996, 39, 1453-1462.	4.8	4
29	Burning regimes for the finite-duration releases of fuel gases. Proceedings of the Combustion Institute, 1996, 26, 1549-1555.	0.3	4
30	Computation of inductively coupled air plasma flow in the torches. Journal of Physics: Conference Series, 2018, 1009, 012027.	0.4	4
31	Formation and combustion of gas clouds in accidental discharge to the atmosphere. Combustion, Explosion and Shock Waves, 1997, 33, 144-156.	0.8	3
32	Coupled Code SOCRAT-BN Development for Safety Analysis of Sodium-Cooled Fast Reactors. , 2012, , .		3
33	Modeling of filtration processes during the cyclic operation of an oil production well. Mathematical Models and Computer Simulations, 2016, 8, 725-733.	0.5	3
34	On the evaluation of dryout conditions for a heat-releasing porous bed in a water pool. International Journal of Heat and Mass Transfer, 2019, 134, 895-905.	4.8	3
35	Two-dimensional three-phase mathematical model of forest fires. Keldysh Institute Preprints, 2017, , 1-12.	0.2	3
36	Ascent of a turbulent axisymmetric thermal in a nonuniform compressible atmosphere. Journal of Applied Mechanics and Technical Physics, 1989, 30, 58-64.	0.5	2

#	Article	IF	Citations
37	Risk-Informed Approach to Debris Bed Coolability Issue. , 2012, , .		2
38	Uncertainty of Tenability Times in Multiroom Building Fires. Combustion Science and Technology, 2012, 184, 1080-1092.	2.3	2
39	Modeling of Thermal Gas Treatment of Low-Permeability Reservoirs of Bazhenov Formation. Springer Proceedings in Earth and Environmental Sciences, 2019, , 380-394.	0.4	2
40	Numerical study on combustion in a plane narrow channel. Keldysh Institute Preprints, 2016, , 1-32.	0.2	2
41	Current Status of Oil Recovery from Bazhenov Formation: Efficiency Analysis of Existing Technologies and New Approach. Springer Proceedings in Earth and Environmental Sciences, 2019, , 395-410.	0.4	2
42	Analysis of the temperature regime of operation of a filtering unit. Journal of Applied Mechanics and Technical Physics, 2007, 48, 852-860.	0.5	1
43	Finite Element Analysis of Elastomers Using ANSYS. , 2012, , .		1
44	Numerical Modeling of Compartment Fires. Heat Transfer Research, 2005, 36, 573-584.	1.6	1
45	Modelling Of Fires Following Bursts Of Pressurized Fuel Tanks. Fire Safety Science, 2003, 7, 643-654.	0.3	1
46	Entrainment of dispersed impurities into the atmosphere by a rising thermal. Fluid Dynamics, 1990, 25, 104-111.	0.9	0
47	Effect of dispersed impurities on the rise of a dusty thermal. Journal of Applied Mechanics and Technical Physics, 1991, 31, 729-736.	0.5	0
48	Circulation instability of steady falling of a flat layer of fine dispersed particles. Fluid Dynamics, 1991, 26, 64-69.	0.9	0
49	Sedimentation of a cloud of a bidispersed aerosol onto a flat horizontal surface. Journal of Applied Mechanics and Technical Physics, 1992, 33, 241-248.	0.5	0
50	Self-similar axisymmetric thermal in a variable-density medium. Fluid Dynamics, 1992, 26, 512-520.	0.9	0
51	Modeling of industrial accidents with liquefied toxic and flammable gases. Mathematical Models and Computer Simulations, 2010, 2, 691-703.	0.5	0
52	Expansion of high-pressure superheated liquids: multiphase flows and shock effects. , 2012, , .		0
53	Investigation of Effects of Piping Configuration and Water Supply Pressure on Air Intrusion. , 2012, , .		0