Viktor

List of Publications by Year in descending order

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40 papers	66 citations	1937685 4 h-index	1720034 7 g-index
41 all docs	41 docs citations	41 times ranked	16 citing authors

#	Article	IF	Citations
1	Simulation of the motion and destruction of bolides in the Earthâ€™s atmosphere. High Temperature, 2016, 54, 308-315.	1.0	14
2	An estimate of the heat fluxes to the surface of blunt bodies moving at hypersonic velocity in the atmosphere. Prikladnaya Matematika I Mekhanika, 2007, 71, 747-754.	0.4	8
3	Destruction mechanisms of meteoroids and heat transfer to their surfaces. Mathematical Models and Computer Simulations, 2016, 8, 506-512.	0.5	8
4	Formation of a vortex ring during the rise of a heated air mass in the stratified atmosphere. Fluid Dynamics, 1978, 13, 318-322.	0.9	4
5	Motion of gas due to a point explosion in an inhomogeneous atmosphere. Fluid Dynamics, 1982, 16, 921-927.	0.9	4
6	Interaction between a plane shock wave and a spherical volume of hot gas. Fluid Dynamics, 1988, 23, 78-82.	0.9	4
7	Numerical solution of the problem of the theory of point explosion in Lagrangian coordinates. Some new results. Mathematical Models and Computer Simulations, 2012, 4, 210-218.	0.5	4
8	Numerical investigation of interactions of multiple spherical shock waves between themselves and with the underlying surface. Computational Mathematics and Mathematical Physics, 2016, 56, 1096-1101.	0.8	2
9	Aspects of Meteoroids Flight in the Earthâ€™s Atmosphere. Smart Innovation, Systems and Technologies, 2021, , 13-23.	0.6	2
10	Modeling the Mechanisms of the Destruction of the Surface Layer of a Meteoroid under the Influence of a Thermal Factor. Mathematical Models and Computer Simulations, 2021, 13, 698-704.	0.5	2
11	Unconventional Trajectories of Meteoroids in the Earthâ€™s Atmosphere. Smart Innovation, Systems and Technologies, 2022, , 179-193.	0.6	2
12	Calculation of reflection of a blast wave by a plane. Fluid Dynamics, 1983, 17, 806-809.	0.9	1
13	Drift of large-scale hot thermals in stratified air flows. Fluid Dynamics, 1984, 19, 1012-1014.	0.9	1
14	Self-ignition mechanism for coal. Combustion, Explosion and Shock Waves, 1990, 26, 147-152.	0.8	1
15	Spherical shock wave reflection from a surface with a heated gas layer. Fluid Dynamics, 1990, 24, 607-613.	0.9	1
16	Head-on collision of two spherical shock waves. Interaction of laser sparks in a gas. Fluid Dynamics, 1991, 25, 761-765.	0.9	1
17	Numerical investigation of the spatial interaction of two large-scale thermals. Fluid Dynamics, 1991, 25, 538-544.	0.9	1
18	Pair explosion in an exponential atmosphere. Journal of Engineering Physics and Thermophysics, 1994, 66, 584-587.	0.6	1

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19	Air streams in the atmosphere induced by multiple near-surface heat sources. Fluid Dynamics, 1994, 28, 608-612.	0.9	1
20	Numerical solution of the problem of explosion in planetary atmospheres in the Lagrangian variables. Fluid Dynamics, 2013, 48, 416-423.	0.9	1
21	Comprehensive Mathematical Analysis of Fall of Bolides in Atmosphere with Final Multiple Explosion. Computational Mathematics and Mathematical Physics, 2018, 58, 1294-1308.	0.8	1
22	Mathematical Simulation of the Fall and Fragmentation of the Sikhote-Alin Bolide. Mathematical Models and Computer Simulations, 2019, 11, 451-456.	0.5	1
23	The Study of the Physical Processes that Cause the Destruction and Fragmentation of Meteoroids in the Atmosphere. Smart Innovation, Systems and Technologies, 2021, , 199-212.	0.6	1
24	Algorithm for solving three-dimensional problems on non-stationary wave processes in condensed media. USSR Computational Mathematics and Mathematical Physics, 1986, 26, 167-171.	0.0	0
25	Numerical solutions of problems in wave dynamics using an ES-1055 M matrix processor. USSR Computational Mathematics and Mathematical Physics, 1987, 27, 160-166.	0.0	0
26	A numerical technique for solving non-stationary spatial problems of the dynamics of elastoplastic media. USSR Computational Mathematics and Mathematical Physics, 1988, 28, 75-80.	0.0	0
27	Numerical modeling of the ascent of surface thermals. Fluid Dynamics, 1989, 24, 271-277.	0.9	0
28	Passage of spherical shock waves through thermals. Journal of Engineering Physics, 1989, 57, 938-942.	0.0	0
29	Interaction of spherical shock waves with near-surface thermal gas inhomogeneities. Combustion, Explosion and Shock Waves, 1990, 26, 321-325.	0.8	0
30	Cumulation and spallation with local thermal shocks in metals disks. Journal of Engineering Physics, 1990, 58, 75-81.	0.0	0
31	Double explosion above a heated surface. Journal of Engineering Physics and Thermophysics, 1992, 62, 346-352.	0.6	0
32	Interaction dynamics of two coaxial vortex rings in the presence of natural convection. Fluid Dynamics, 1992, 26, 615-618.	0.9	0
33	Circulating and jet flows formed in the atmosphere during the rise of two large-scale thermals. Journal of Applied Mechanics and Technical Physics, 1993, 34, 72-79.	0.5	0
34	Possibility of inverse Mach reflection in association with a laser spark explosion over a plane surface. Fluid Dynamics, 1994, 28, 848-851.	0.9	0
35	Laws of ascent of two volumes of hot gas. Fluid Dynamics, 1996, 31, 375-377.	0.9	0
36	Calculation of the process of blast wave diffraction in a cylindrical channel. Journal of Engineering Physics and Thermophysics, 1996, 68, 476-480.	0.6	0

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37	Investigation of the behaviour of a column beyond the elastic limit by methods of the technical theory of stability. Prikladnaya Matematika I Mekhanika, 2006, 70, 84-90.	0.4	0
38	Problems of evaluation of heat fluxes for blunt bodies moving in a planetary atmosphere. Doklady Physics, 2006, 51, 564-568.	0.7	0
39	Effects of bolide parameters on the motion and destruction in the Earthâ€™s atmosphere. IOP Conference Series: Materials Science and Engineering, 2018, 468, 012025.	0.6	0
40	A Mechanism for the Formation of the Surface Relief of Falling Meteor Bodies. High Temperature, 2020, 58, 132-136.	1.0	0