

Pavel A Kuibin

List of Publications by Citations

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The third column is the impact factor (IF) of the journal, and the fourth column is the number of citations of the article.

46
papers

506
citations

10
h-index

22
g-index

47
ext. papers

550
ext. citations

1.1
avg, IF

3.67
L-index

#	Paper	IF	Citations
46	Helical vortices in swirl flow. <i>Journal of Fluid Mechanics</i> , 1999 , 382, 195-243	3.7	167
45	Experimental study and analytical reconstruction of precessing vortex in a tangential swirler. <i>International Journal of Heat and Fluid Flow</i> , 2013 , 42, 251-264	2.4	52
44	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
43	Self-induced motion and asymptotic expansion of the velocity field in the vicinity of a helical vortex filament. <i>Physics of Fluids</i> , 1998 , 10, 607-614	4.4	42
42	Swirling flow in a hydraulic turbine discharge cone at different speeds and discharge conditions. <i>Experimental Thermal and Fluid Science</i> , 2019 , 100, 349-359	3	28
41	Vortex reconnection in a swirling flow. <i>JETP Letters</i> , 2016 , 103, 455-459	1.2	21
40	Study of Pressure Shock Caused by a Vortex Ring Separated From a Vortex Rope in a Draft Tube Model. <i>Journal of Fluids Engineering, Transactions of the ASME</i> , 2017 , 139,	2.1	19
39	Pattern of vertical velocity in the Lofoten vortex (the Norwegian Sea). <i>Ocean Dynamics</i> , 2018 , 68, 1711-1735	1.3	18
38	On the vertical velocity component in the mesoscale Lofoten vortex of the Norwegian Sea. <i>Izvestiya - Atmospheric and Oceanic Physics</i> , 2017 , 53, 641-649	1	11
37	Study of the velocity distribution influence upon the pressure pulsations in draft tube model of hydro-turbine. <i>IOP Conference Series: Earth and Environmental Science</i> , 2016 , 49, 082020	0.3	11
36	On the development of the method of vortex particles as applied to the description of detached flows. <i>USSR Computational Mathematics and Mathematical Physics</i> , 1989 , 29, 163-169		10
35	The effect of air injection on the parameters of swirling flow in a Turbine-99 draft tube model. <i>Technical Physics Letters</i> , 2015 , 41, 638-640	0.7	8
34	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
33	Simulation of Flow Structure in the Suction Pipe of a Hydroturbine by Integral Characteristics. <i>Heat Transfer Research</i> , 2006 , 37, 675-684	3.9	7
32	Experimental observation of the precessing-vortex-core reconnection phenomenon in a combined-flow turbine. <i>Technical Physics Letters</i> , 2017 , 43, 969-971	0.7	6
31	Two-phase models development for description of vortex-induced pulsation in Francis turbine. <i>IOP Conference Series: Earth and Environmental Science</i> , 2012 , 15, 022001	0.3	6
30	Application of the theory of columnar Q-vortices with helical structure for the Lofoten vortex in the Norwegian Sea. <i>Vestnik of Saint Petersburg University Earth Sciences</i> , 2017 , 62,	1.3	6

29	Study of aerodynamic structure of flow in a model of vortex furnace using Stereo PIV method. <i>Thermophysics and Aeromechanics</i> , 2016 , 23, 621-624	0.9	6
28	A model for precessing helical vortex in the turbine discharge cone. <i>IOP Conference Series: Earth and Environmental Science</i> , 2014 , 22, 022024	0.3	5
27	Motion of fine-spray liquid droplets in hot gas flow. <i>Thermophysics and Aeromechanics</i> , 2014 , 21, 609-616	0.9	5
26	Vortex Precession in a Gas-Liquid Flow. <i>Heat Transfer Research</i> , 2010 , 41, 465-478	3.9	5
25	A novel scenario of aperiodical impacts appearance in the turbine draft tube. <i>IOP Conference Series: Earth and Environmental Science</i> , 2016 , 49, 082025	0.3	4
24	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
23	Microgravity: Effect of a Moving Local Heater on Liquid Film Structure. <i>Microgravity Science and Technology</i> , 2008 , 20, 237-241	1.6	3
22	Experimental Study of Liquid Drop Surface Transformation in Air Within a Group of Successive Deformation Cycles. <i>Chemical and Petroleum Engineering (English Translation of Khimicheskoe i Neftyanoe Mashinostroenie)</i> , 2017 , 52, 662-668	0.6	2
21	2D Flow Structure in a Thin Liquid Layer Under Thermal Wave Propagation. <i>Microgravity Science and Technology</i> , 2009 , 21, 321-324	1.6	2
20	Oscillation of Cavitating Vortices in Draft Tubes of a Simplified Model Turbine and a Model Pump Turbine. <i>Energies</i> , 2022 , 15, 2965	3.1	2
19	Vortex rope instabilities in a model of conical draft tube. <i>EPJ Web of Conferences</i> , 2017 , 159, 00048	0.3	1
18	Stability of axisymmetric swirl flows of viscous incompressible fluid. <i>Thermophysics and Aeromechanics</i> , 2013 , 20, 317-326	0.9	1
17	Vortex rope patterns at different load of hydro turbine model. <i>MATEC Web of Conferences</i> , 2017 , 115, 06004	0.3	1
16	On random pressure pulses in the turbine draft tube. <i>Journal of Physics: Conference Series</i> , 2017 , 813, 012051	0.3	1
15	Thermal-wave-induced vorticity in a liquid film. <i>Technical Physics Letters</i> , 2008 , 34, 848-850	0.7	1
14	A model for description of the pressure field on a plate as the vortex ring passes. <i>Journal of Physics: Conference Series</i> , 2017 , 891, 012082	0.3	1
13	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
12	The effect of gas and water droplet temperature on characteristics of water-droplet deformation at moderate velocities of droplet movement. <i>Theoretical Foundations of Chemical Engineering</i> , 2016 , 50, 746-756	0.9	

- 11 Thin helical vortex dynamics in low-viscosity liquid. *EPJ Web of Conferences*, **2014**, 76, 01021 0.3
- 10 Effects of Inertia and Thermocapillarity in Non-isothermal Film Flow. *Procedia IUTAM*, **2013**, 8, 166-171
- 9 Stability of Swirl Axisymmetric Incompressible Flow. *Procedia IUTAM*, **2013**, 8, 13-21
- 8 Aperiodic pressure pulsation under non optimal hydraulic turbine regimes at low swirl number. *Journal of Physics: Conference Series*, **2017**, 899, 022016 0.3
- 7 Water droplet deformation under the motion in gas area with subsonic velocities. *EPJ Web of Conferences*, **2015**, 82, 01002 0.3
- 6 On the viscosity influence on a helical vortex filament evolution. *EPJ Web of Conferences*, **2015**, 82, 01001b.3
- 5 The Difference between the Integral Characteristics of Two and Three Water Droplets Moving Sequentially through High-Temperature Combustion Products and Air. *MATEC Web of Conferences*, **2015**, 23, 01062 0.3
- 4 Effect of motion of a local heat source on thermocapillary deformation of a thin liquid film flowing down under the action of gravity. *Technical Physics Letters*, **2010**, 36, 683-686 0.7
- 3 Gas burning in a spiral flow. *Combustion, Explosion and Shock Waves*, **1993**, 29, 657-658 1
- 2 Parametric Description of the stationary Helical Vortex in a Hydrodynamic Vortex Chamber. *Prikladna Mehanika, Tehniška Fizika*, **2020**, 61, 52-62 0
- 1 Kelvin waves on helical vortex tube in swirling flow. *Journal of Physics: Conference Series*, **2018**, 980, 012003 0.3