

Pavel A Kuibin

List of Publications by Year in Descending Order

Source: <https://exaly.com/author-pdf/961495/pavel-a-kuibin-publications-by-year.pdf>

Version: 2024-04-23

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.

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	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
45	Parametric Description of the stationary Helical Vortex in a Hydrodynamic Vortex Chamber. <i>Prikladnaya Mehanika, Tehnitskaya Fizika</i> , 2020 , 61, 52-62	0	
44	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
43	Kelvin waves on helical vortex tube in swirling flow. <i>Journal of Physics: Conference Series</i> , 2018 , 980, 012003	0.3	0
42	Pattern of vertical velocity in the Lofoten vortex (the Norwegian Sea). <i>Ocean Dynamics</i> , 2018 , 68, 1711-1735	1.3	18
41	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
40	Vortex rope instabilities in a model of conical draft tube. <i>EPJ Web of Conferences</i> , 2017 , 159, 00048	0.3	1
39	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 Mashinostroyeniye)</i> , 2017 , 52, 662-668	0.6	2
38	Vortex rope patterns at different load of hydro turbine model. <i>MATEC Web of Conferences</i> , 2017 , 115, 06004	0.3	1
37	Aperiodic pressure pulsation under non optimal hydraulic turbine regimes at low swirl number. <i>Journal of Physics: Conference Series</i> , 2017 , 899, 022016	0.3	
36	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
35	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
34	On random pressure pulses in the turbine draft tube. <i>Journal of Physics: Conference Series</i> , 2017 , 813, 012051	0.3	1
33	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
32	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
31	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	
30	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

29	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
28	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
27	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
26	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
25	Vortex reconnection in a swirling flow. <i>JETP Letters</i> , 2016 , 103, 455-459	1.2	21
24	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
23	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
22	Water droplet deformation under the motion in gas area with subsonic velocities. <i>EPJ Web of Conferences</i> , 2015 , 82, 01002	0.3	
21	On the viscosity influence on a helical vortex filament evolution. <i>EPJ Web of Conferences</i> , 2015 , 82, 01001	0.3	
20	The Difference between the Integral Characteristics of Two and Three Water Droplets Moving Sequentially through High-Temperature Combustion Products and Air. <i>MATEC Web of Conferences</i> , 2015 , 23, 01062	0.3	
19	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
18	Thin helical vortex dynamics in low-viscosity liquid. <i>EPJ Web of Conferences</i> , 2014 , 76, 01021	0.3	
17	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
16	Motion of fine-spray liquid droplets in hot gas flow. <i>Thermophysics and Aeromechanics</i> , 2014 , 21, 609-616	0.9	5
15	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
14	Effects of Inertia and Thermocapillarity in Non-isothermal Film Flow. <i>Procedia IUTAM</i> , 2013 , 8, 166-171		
13	Stability of axisymmetric swirl flows of viscous incompressible fluid. <i>Thermophysics and Aeromechanics</i> , 2013 , 20, 317-326	0.9	1
12	Stability of Swirl Axisymmetric Incompressible Flow. <i>Procedia IUTAM</i> , 2013 , 8, 13-21		

11	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
10	Effect of motion of a local heat source on thermocapillary deformation of a thin liquid film flowing down under the action of gravity. <i>Technical Physics Letters</i> , 2010 , 36, 683-686	0.7	
9	Vortex Precession in a Gas-Liquid Flow. <i>Heat Transfer Research</i> , 2010 , 41, 465-478	3.9	5
8	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
7	Microgravity: Effect of a Moving Local Heater on Liquid Film Structure. <i>Microgravity Science and Technology</i> , 2008 , 20, 237-241	1.6	3
6	Thermal-wave-induced vorticity in a liquid film. <i>Technical Physics Letters</i> , 2008 , 34, 848-850	0.7	1
5	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
4	Helical vortices in swirl flow. <i>Journal of Fluid Mechanics</i> , 1999 , 382, 195-243	3.7	167
3	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
2	Gas burning in a spiral flow. <i>Combustion, Explosion and Shock Waves</i> , 1993 , 29, 657-658	1	
1	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