

# Eugeny Ermanyuk

## List of Publications by Year in descending order

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46  
papers

632  
citations

567281

15  
h-index

610901

24  
g-index

46  
all docs

46  
docs citations

46  
times ranked

284  
citing authors

#	ARTICLE	IF	CITATIONS
1	Air trapping at impact of a rigid sphere onto a liquid. <i>Journal of Fluid Mechanics</i> , 2012, 695, 310-320.	3.4	50
2	Energy cascade in internal-wave attractors. <i>Europhysics Letters</i> , 2016, 113, 44001.	2.0	48
3	Nonlinear Fate of Internal Wave Attractors. <i>Physical Review Letters</i> , 2013, 110, 234501.	7.8	44
4	Internal wave attractors examined using laboratory experiments and 3D numerical simulations. <i>Journal of Fluid Mechanics</i> , 2016, 793, 109-131.	3.4	37
5	Internal wave generation by oscillation of a sphere, with application to internal tides. <i>Journal of Fluid Mechanics</i> , 2011, 666, 308-357.	3.4	34
6	Interaction of an internal gravity current with a submerged circular cylinder. <i>Journal of Applied Mechanics and Technical Physics</i> , 2005, 46, 216-223.	0.5	30
7	Internal wave attractors: different scenarios of instability. <i>Journal of Fluid Mechanics</i> , 2017, 811, 544-568.	3.4	30
8	Interaction of Internal Gravity Current with an Obstacle on the Channel Bottom. <i>Journal of Applied Mechanics and Technical Physics</i> , 2005, 46, 489-495.	0.5	29
9	Impact of a disk on shallow water. <i>Journal of Fluids and Structures</i> , 2005, 20, 345-357.	3.4	28
10	Internal wave attractors in three-dimensional geometries: trapping by oblique reflection. <i>Journal of Fluid Mechanics</i> , 2018, 845, 203-225.	3.4	22
11	Internal and Inertial Wave Attractors: A Review. <i>Journal of Applied Mechanics and Technical Physics</i> , 2019, 60, 284-302.	0.5	21
12	Experimental Study of the Dynamic Effect of an Internal Solitary Wave on a Submerged Circular Cylinder. <i>Journal of Applied Mechanics and Technical Physics</i> , 2005, 46, 800-806.	0.5	19
13	Force on a body in a continuously stratified fluid. Part 1. Circular cylinder. <i>Journal of Fluid Mechanics</i> , 2002, 451, 421-443.	3.4	17
14	A note on the propagation speed of a weakly dissipative gravity current. <i>Journal of Fluid Mechanics</i> , 2007, 574, 393-403.	3.4	16
15	Force on a body in a continuously stratified fluid. Part 2. Sphere. <i>Journal of Fluid Mechanics</i> , 2003, 494, 33-50.	3.4	15
16	Spatial structure of first and higher harmonic internal waves from a horizontally oscillating sphere. <i>Journal of Fluid Mechanics</i> , 2011, 671, 364-383.	3.4	15
17	Gas nucleus growth in high-viscosity liquid under strongly non-equilibrium conditions. <i>International Journal of Heat and Mass Transfer</i> , 2018, 123, 1101-1108.	4.8	15
18	The use of impulse response functions for evaluation of added mass and damping coefficient of a circular cylinder oscillating in linearly stratified fluid. <i>Experiments in Fluids</i> , 2000, 28, 152-159.	2.4	14

#	ARTICLE	IF	CITATIONS
19	The rule of affine similitude for the force coefficients of a body oscillating in a uniformly stratified fluid. <i>Experiments in Fluids</i> , 2002, 32, 242-251.	2.4	14
20	On internal waves generated by large-amplitude circular and rectilinear oscillations of a circular cylinder in a uniformly stratified fluid. <i>Journal of Fluid Mechanics</i> , 2008, 613, 329-356.	3.4	13
21	Scale effects in internal wave attractors. <i>Physical Review Fluids</i> , 2017, 2, .	2.5	12
22	Internal wave focusing by a horizontally oscillating torus. <i>Journal of Fluid Mechanics</i> , 2017, 813, 695-715.	3.4	11
23	Experimental study of disk impact onto shallow water. <i>Journal of Applied Mechanics and Technical Physics</i> , 2011, 52, 889-895.	0.5	10
24	Direct Numerical Simulation of Three-Dimensional Inertial Wave Attractors. , 2017, , .		10
25	Study of initial stage of entry of a solid sphere into shallow liquid with Synthetic Schlieren technique. <i>Experimental Thermal and Fluid Science</i> , 2021, 125, 110375.	2.7	10
26	Internal waves generated by circular translational motion of a cylinder in a linearly stratified fluid. <i>Journal of Applied Mechanics and Technical Physics</i> , 1997, 38, 224-227.	0.5	9
27	Taylor's Couette flow in a two-layer stratified fluid: instabilities and mixing. <i>Dynamics of Atmospheres and Oceans</i> , 2005, 40, 57-69.	1.8	7
28	Duration of transient processes in the formation of internal-wave beams. <i>Doklady Physics</i> , 2005, 50, 548-550.	0.7	6
29	Generation of higher harmonic internal waves by oscillating spheroids. <i>Physical Review Fluids</i> , 2017, 2, .	2.5	6
30	Effect of a pycnocline on forces exerted by internal waves on a stationary cylinder. <i>Journal of Applied Mechanics and Technical Physics</i> , 1996, 37, 825-831.	0.5	5
31	The Rupture of Thin Liquid Films Placed on Solid and Liquid Substrates in Gravity Body Forces. <i>Communications in Computational Physics</i> , 2015, 17, 1301-1319.	1.7	5
32	Energy Cascade in Internal Wave Attractors. <i>Procedia IUTAM</i> , 2017, 20, 120-127.	1.2	5
33	Oscillations of cylinders in a linearly stratified fluid. <i>Journal of Applied Mechanics and Technical Physics</i> , 2002, 43, 503-511.	0.5	4
34	Biharmonic Attractors of Internal Gravity Waves. <i>Fluid Dynamics</i> , 2021, 56, 403-412.	0.9	4
35	Experimental study of the motion of a submerged body under the influence of internal waves. <i>Fluid Dynamics</i> , 1995, 30, 326-330.	0.9	3
36	Stewartson layer instability and triadic resonances in rotating sphere with oscillating inner core. <i>Physics of Fluids</i> , 2022, 34, 064103.	4.0	3

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37	Drift and oscillatory motion of a vertical cylinder on internal waves. Journal of Applied Mechanics and Technical Physics, 1997, 38, 69-73.	0.5	2
38	Diffraction of internal waves by a circular cylinder near the pycnocline. Journal of Applied Mechanics and Technical Physics, 1999, 40, 258-262.	0.5	2
39	Added mass: a complex facet of tidal conversion at finite depth. Journal of Fluid Mechanics, 2017, 831, 101-127.	3.4	2
40	Influence of geometry on energy flow and instability in inertial wave attractors for rotating annular frustum. AIP Conference Proceedings, 2019, , .	0.4	2
41	Experimental study of the force of internal waves acting on a stationary sphere. Journal of Applied Mechanics and Technical Physics, 1994, 34, 543-546.	0.5	1
42	Internal-wave radiation and optical measurements in stratified fluids. Microgravity Science and Technology, 2007, 19, 144-147.	1.4	1
43	INITIAL STAGE OF AN OBLIQUE IMPACT OF A LARGE SOLID SPHERE ON A WATER LAYER. Journal of Applied Mechanics and Technical Physics, 2021, 62, 616-623.	0.5	1
44	Phenomenon of predominant orientation of a submerged elliptical cylinder under the action of surface waves. Journal of Applied Mechanics and Technical Physics, 1996, 37, 323-330.	0.5	0
45	Effect of generator shape on the structure of internal wave beams in a uniformly stratified fluid. Journal of Applied Mechanics and Technical Physics, 2011, 52, 200-205.	0.5	0
46	Interaction of an internal gravity current with a submerged circular cylinder. Journal of Applied Mechanics and Technical Physics, 2005, 46, 216-223.	0.5	0