

# Triantaphyllos R Akylas

## List of Publications by Year in descending order

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52  
papers

1,410  
citations

361296

20  
h-index

330025

37  
g-index

52  
all docs

52  
docs citations

52  
times ranked

571  
citing authors

#	ARTICLE	IF	CITATIONS
1	On the excitation of long nonlinear water waves by a moving pressure distribution. Journal of Fluid Mechanics, 1984, 141, 455-466.	1.4	241
2	Solitary internal waves with oscillatory tails. Journal of Fluid Mechanics, 1992, 242, 279-298.	1.4	103
3	Nonlinear effects in reflecting and colliding internal wave beams. Journal of Fluid Mechanics, 2005, 526, 217-243.	1.4	86
4	On the excitation of long nonlinear water waves by a moving pressure distribution. Part 2. Three-dimensional effects. Journal of Fluid Mechanics, 1987, 177, 49-65.	1.4	78
5	On asymmetric gravityâ€“capillary solitary waves. Journal of Fluid Mechanics, 1997, 330, 215-232.	1.4	76
6	Envelope solitons with stationary crests. Physics of Fluids A, Fluid Dynamics, 1993, 5, 789-791.	1.6	64
7	Nonlinear internal gravity wave beams. Journal of Fluid Mechanics, 2003, 482, 141-161.	1.4	63
8	Reflecting tidal wave beams and local generation of solitary waves in the ocean thermocline. Journal of Fluid Mechanics, 2007, 593, 297-313.	1.4	52
9	On gravityâ€“capillary lumps. Journal of Fluid Mechanics, 2005, 540, 337.	1.4	47
10	Energy localization and transport in binary waveguide arrays. Physical Review A, 2011, 83, .	1.0	37
11	Parametric subharmonic instability of internal waves: locally confined beams versus monochromatic wavetrains. Journal of Fluid Mechanics, 2014, 757, 381-402.	1.4	35
12	On gravityâ€“capillary lumps. Part 2. Two-dimensional Benjamin equation. Journal of Fluid Mechanics, 2006, 557, 237.	1.4	33
13	Nonlinear spiral waves in rotating pipe flow. Journal of Fluid Mechanics, 1988, 190, 39-54.	1.4	31
14	Stability of steep gravityâ€“capillary solitary waves in deep water. Journal of Fluid Mechanics, 2002, 452, 123-143.	1.4	31
15	Resonant Longâ€“Short Wave Interactions in an Unbounded Rotating Stratified Fluid. Studies in Applied Mathematics, 2007, 119, 271-296.	1.1	30
16	On resonant triad interactions of acousticâ€“gravity waves. Journal of Fluid Mechanics, 2016, 788, .	1.4	29
17	Large-scale modulations of edge waves. Journal of Fluid Mechanics, 1983, 132, 197-208.	1.4	24
18	On the stability of lumps and wave collapse in water waves. Philosophical Transactions Series A, Mathematical, Physical, and Engineering Sciences, 2008, 366, 2761-2774.	1.6	23

#	ARTICLE	IF	CITATIONS
19	Resonantly forced gravityâ€“capillary lumps on deep water. Part 1. Experiments. Journal of Fluid Mechanics, 2011, 672, 268-287.	1.4	21
20	Transverse instability of gravityâ€“capillary solitary waves. Journal of Engineering Mathematics, 2007, 58, 167-175.	0.6	20
21	Resonantly forced gravityâ€“capillary lumps on deep water. Part 2. Theoretical model. Journal of Fluid Mechanics, 2011, 672, 288-306.	1.4	19
22	On three-dimensional internal gravity wave beams and induced large-scale mean flows. Journal of Fluid Mechanics, 2015, 769, 621-634.	1.4	19
23	On Wave Modes With Zero Group Velocity in an Elastic Layer. Journal of Applied Mechanics, Transactions ASME, 1984, 51, 652-656.	1.1	17
24	The effect of the induced mean flow on solitary waves in deep water. Journal of Fluid Mechanics, 1998, 355, 317-328.	1.4	17
25	Higher-order modulation effects on solitary wave envelopes in deep water. Journal of Fluid Mechanics, 1989, 198, 387.	1.4	16
26	On three-dimensional long water waves in a channel with sloping sidewalls. Journal of Fluid Mechanics, 1990, 215, 289.	1.4	16
27	On nonlinear wave envelopes of permanent form near a caustic. Journal of Fluid Mechanics, 1990, 214, 489.	1.4	16
28	On interfacial gravity-capillary solitary waves of the Benjamin type and their stability. Physics of Fluids, 2003, 15, 1261-1270.	1.6	16
29	Near-inertial parametric subharmonic instability of internal wave beams. Physical Review Fluids, 2017, 2, .	1.0	16
30	On the generation and evolution of internal solitary waves in the southern Red Sea. Journal of Geophysical Research: Oceans, 2016, 121, 8566-8584.	1.0	13
31	Stability of internal gravity wave beams to three-dimensional modulations. Journal of Fluid Mechanics, 2013, 736, 67-90.	1.4	12
32	On the interaction of an internal wavepacket with its induced mean flow and the role of streaming. Journal of Fluid Mechanics, 2018, 838, .	1.4	12
33	Effect of background mean flow on PSI of internal wave beams. Journal of Fluid Mechanics, 2019, 869, .	1.4	11
34	Finite-amplitude instabilities of thin internal wave beams: experiments and theory. Journal of Fluid Mechanics, 2020, 904, .	1.4	11
35	Modulational stability and gap solitons of gapless systems: Continuous versus discrete limits. Physical Review A, 2012, 85, .	1.0	10
36	Finite-amplitude effects on steady lee-wave patterns in subcritical stratified flow over topography. Journal of Fluid Mechanics, 1996, 308, 147-170.	1.4	7

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37	On the generation of shelves by long nonlinear waves in stratified flows. <i>Journal of Fluid Mechanics</i> , 1997, 346, 345-362.	1.4	7
38	Higher-order modulation effects on solitary wave envelopes in deep water Part 2. Multi-soliton envelopes. <i>Journal of Fluid Mechanics</i> , 1991, 224, 417-428.	1.4	6
39	Mean-flow effects on the low-wavenumber wall-pressure spectrum of a turbulent boundary layer over a compliant surface. <i>Journal of the Acoustical Society of America</i> , 1985, 77, 1840-1844.	0.5	5
40	Viscous reflection of internal waves from a slope. <i>Physical Review Fluids</i> , 2020, 5, .	1.0	5
41	Stability of stratified flow of large depth over finite-amplitude topography. <i>Journal of Fluid Mechanics</i> , 1996, 320, 369.	1.4	4
42	Wave trapping and upstream influence in stratified flow of large depth. <i>Journal of Fluid Mechanics</i> , 2003, 491, 301-324.	1.4	4
43	Oblique collisions of internal wave beams and associated resonances. <i>Journal of Fluid Mechanics</i> , 2012, 711, 337-363.	1.4	4
44	Long-time dynamics of internal wave streaming. <i>Journal of Fluid Mechanics</i> , 2021, 907, .	1.4	4
45	An application of WKB theory for triad interactions of internal gravity waves in varying background flows. <i>Quarterly Journal of the Royal Meteorological Society</i> , 2021, 147, 1112-1134.	1.0	4
46	Three-dimensional aspects of nonlinear stratified flow over topography near the hydrostatic limit. <i>Journal of Fluid Mechanics</i> , 2001, 428, 81-105.	1.4	3
47	On mean flow generation due to oblique reflection of internal waves at a slope. <i>Studies in Applied Mathematics</i> , 2019, 142, 419-432.	1.1	3
48	The effect of rigid rotation on the finite-amplitude stability of pipe flow at high Reynolds number. <i>Journal of Fluid Mechanics</i> , 1984, 148, 193-205.	1.4	2
49	Wind-Generated Surface Waves on a Viscous Fluid. <i>Journal of Applied Mechanics, Transactions ASME</i> , 1985, 52, 208-212.	1.1	2
50	The role of buoyancy-frequency oscillations in the generation of mountain gravity waves. <i>Theoretical and Computational Fluid Dynamics</i> , 2007, 21, 423-433.	0.9	2
51	Tilting at wave beams: a new perspective on the St. Andrew's Cross. <i>Journal of Fluid Mechanics</i> , 2017, 830, 660-680.	1.4	2
52	Do envelope solitons radiate?. <i>Journal of Engineering Mathematics</i> , 1999, 36, 41-56.	0.6	1