Triantaphyllos R Akylas

List of Publications by Year
in descending order

52	1,410	361296	330025
papers	citations	20 h-index	37 g-index

52	52	52	571
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	Long-time dynamics of internal wave streaming. Journal of Fluid Mechanics, 2021, 907, .	1.4	4
2	An application of WKBJ theory for triad interactions of internal gravity waves in varying background flows. Quarterly Journal of the Royal Meteorological Society, 2021, 147, 1112-1134.	1.0	4
3	Finite-amplitude instabilities of thin internal wave beams: experiments and theory. Journal of Fluid Mechanics, 2020, 904, .	1.4	11
4	Viscous reflection of internal waves from a slope. Physical Review Fluids, 2020, 5, .	1.0	5
5	Effect of background mean flow on PSI of internal wave beams. Journal of Fluid Mechanics, 2019, 869, .	1.4	11
6	On mean flow generation due to oblique reflection of internal waves at a slope. Studies in Applied Mathematics, 2019, 142, 419-432.	1.1	3
7	On the interaction of an internal wavepacket with its induced mean flow and the role ofÂstreaming. Journal of Fluid Mechanics, 2018, 838, .	1.4	12
8	Tilting at wave beams: a new perspective on theÂSt. Andrewâ€™s Cross. Journal of Fluid Mechanics, 2017, 830, 660-680.	1.4	2
9	Near-inertial parametric subharmonic instability of internal wave beams. Physical Review Fluids, 2017, 2, .	1.0	16
10	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
11	On resonant triad interactions of acousticâ€“gravity waves. Journal of Fluid Mechanics, 2016, 788, .	1.4	29
12	On three-dimensional internal gravity wave beams and induced large-scale mean flows. Journal of Fluid Mechanics, 2015, 769, 621-634.	1.4	19
13	Parametric subharmonic instability of internal waves: locally confined beams versus monochromatic wavetrains. Journal of Fluid Mechanics, 2014, 757, 381-402.	1.4	35
14	Stability of internal gravity wave beams to three-dimensional modulations. Journal of Fluid Mechanics, 2013, 736, 67-90.	1.4	12
15	Modulational stability and gap solitons of gapless systems: Continuous versus discrete limits. Physical Review A, 2012, 85, .	1.0	10
16	Oblique collisions of internal wave beams and associated resonances. Journal of Fluid Mechanics, 2012, 711, 337-363.	1.4	4
17	Energy localization and transport in binary waveguide arrays. Physical Review A, 2011, 83, .	1.0	37
18	Resonantly forced gravityâ€“capillary lumps on deep water. Part 1. Experiments. Journal of Fluid Mechanics, 2011, 672, 268-287.	1.4	21

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19	Resonantly forced gravityâ€“capillary lumps on deep water. Part 2. Theoretical model. Journal of Fluid Mechanics, 2011, 672, 288-306.	1.4	19
20	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
21	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
22	Resonant Longâ€“Short Wave Interactions in an Unbounded Rotating Stratified Fluid. Studies in Applied Mathematics, 2007, 119, 271-296.	1.1	30
23	The role of buoyancyâ€“frequency oscillations in the generation of mountain gravity waves. Theoretical and Computational Fluid Dynamics, 2007, 21, 423-433.	0.9	2
24	Transverse instability of gravityâ€“capillary solitary waves. Journal of Engineering Mathematics, 2007, 58, 167-175.	0.6	20
25	On gravityâ€“capillary lumps. Part 2. Two-dimensional Benjamin equation. Journal of Fluid Mechanics, 2006, 557, 237.	1.4	33
26	On gravityâ€“capillary lumps. Journal of Fluid Mechanics, 2005, 540, 337.	1.4	47
27	Nonlinear effects in reflecting and colliding internal wave beams. Journal of Fluid Mechanics, 2005, 526, 217-243.	1.4	86
28	Wave trapping and upstream influence in stratified flow of large depth. Journal of Fluid Mechanics, 2003, 491, 301-324.	1.4	4
29	Nonlinear internal gravity wave beams. Journal of Fluid Mechanics, 2003, 482, 141-161.	1.4	63
30	On interfacial gravity-capillary solitary waves of the Benjamin type and their stability. Physics of Fluids, 2003, 15, 1261-1270.	1.6	16
31	Stability of steep gravityâ€“capillary solitary waves in deep water. Journal of Fluid Mechanics, 2002, 452, 123-143.	1.4	31
32	Three-dimensional aspects of nonlinear stratified flow over topography near the hydrostatic limit. Journal of Fluid Mechanics, 2001, 428, 81-105.	1.4	3
33	Do envelope solitons radiate?. Journal of Engineering Mathematics, 1999, 36, 41-56.	0.6	1
34	The effect of the induced mean flow on solitary waves in deep water. Journal of Fluid Mechanics, 1998, 355, 317-328.	1.4	17
35	On asymmetric gravityâ€“capillary solitary waves. Journal of Fluid Mechanics, 1997, 330, 215-232.	1.4	76
36	On the generation of shelves by long nonlinear waves in stratified flows. Journal of Fluid Mechanics, 1997, 346, 345-362.	1.4	7

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37	Stability of stratified flow of large depth over finite-amplitude topography. Journal of Fluid Mechanics, 1996, 320, 369.	1.4	4
38	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
39	Envelope solitons with stationary crests. Physics of Fluids A, Fluid Dynamics, 1993, 5, 789-791.	1.6	64
40	Solitary internal waves with oscillatory tails. Journal of Fluid Mechanics, 1992, 242, 279-298.	1.4	103
41	Higher-order modulation effects on solitary wave envelopes in deep water Part 2. Multi-soliton envelopes. Journal of Fluid Mechanics, 1991, 224, 417-428.	1.4	6
42	On three-dimensional long water waves in a channel with sloping sidewalls. Journal of Fluid Mechanics, 1990, 215, 289.	1.4	16
43	On nonlinear wave envelopes of permanent form near a caustic. Journal of Fluid Mechanics, 1990, 214, 489.	1.4	16
44	Higher-order modulation effects on solitary wave envelopes in deep water. Journal of Fluid Mechanics, 1989, 198, 387.	1.4	16
45	Nonlinear spiral waves in rotating pipe flow. Journal of Fluid Mechanics, 1988, 190, 39-54.	1.4	31
46	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
47	Wind-Generated Surface Waves on a Viscous Fluid. Journal of Applied Mechanics, Transactions ASME, 1985, 52, 208-212.	1.1	2
48	Meanâ€flow effects on the lowâ€wavenumber wallâ€pressure spectrum of a turbulent boundary layer over a compliant surface. Journal of the Acoustical Society of America, 1985, 77, 1840-1844.	0.5	5
49	The effect of rigid rotation on the finite-amplitude stability of pipe flow at high Reynolds number. Journal of Fluid Mechanics, 1984, 148, 193-205.	1.4	2
50	On the excitation of long nonlinear water waves by a moving pressure distribution. Journal of Fluid Mechanics, 1984, 141, 455-466.	1.4	241
51	On Wave Modes With Zero Group Velocity in an Elastic Layer. Journal of Applied Mechanics, Transactions ASME, 1984, 51, 652-656.	1.1	17
52	Large-scale modulations of edge waves. Journal of Fluid Mechanics, 1983, 132, 197-208.	1.4	24