

Eliezer Kit

List of Publications by Year in descending order

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Version: 2024-02-01

90
papers

2,381
citations

236612

25
h-index

214527

47
g-index

90
all docs

90
docs citations

90
times ranked

1354
citing authors

#	ARTICLE	IF	CITATIONS
1	Structure functions in nocturnal atmospheric boundary layer turbulence. <i>Physical Review Fluids</i> , 2021, 6, .	1.0	3
2	Measurements of mixing parameters in atmospheric stably stratified parallel shear flow. <i>Environmental Fluid Mechanics</i> , 2020, 20, 1177-1197.	0.7	7
3	Trapped Low Frequency Waves on the Northern Israeli Continental Shelf. <i>Journal of Geophysical Research: Oceans</i> , 2020, 125, e2020JC016400.	1.0	0
4	Inertial range skewness of the longitudinal velocity derivative in locally isotropic turbulence. <i>Physical Review Fluids</i> , 2018, 3, .	1.0	7
5	Fine-scale turbulent bursts in stable Atmospheric boundary layer in complex terrain. <i>Journal of Fluid Mechanics</i> , 2017, 833, 745-772.	1.4	18
6	3D-calibration of three- and four-sensor hot-film probes based on collocated sonic using neural networks. <i>Measurement Science and Technology</i> , 2016, 27, 095901.	1.4	9
7	Effect of the capillary meniscus height on the instability of large Prandtl number Czochralski melt flow. <i>Journal of Crystal Growth</i> , 2016, 453, 20-26.	0.7	3
8	Experimental study of cold plume instability in large Prandtl number Czochralski melt: Parametric dependences and scaling laws. <i>Journal of Crystal Growth</i> , 2016, 438, 38-42.	0.7	4
9	The MATERHORN: Unraveling the Intricacies of Mountain Weather. <i>Bulletin of the American Meteorological Society</i> , 2015, 96, 1945-1967.	1.7	145
10	Study of in situ calibration performance of co-located multi-sensor hot-film and sonic anemometers using a "virtual probe" algorithm. <i>Measurement Science and Technology</i> , 2014, 25, 075801.	1.4	10
11	Experimental Modelling of Czochralski Melt Flow with a Slow Crystal Dummy Rotation. <i>Acta Physica Polonica A</i> , 2013, 124, 193-197.	0.2	4
12	On experimental and numerical prediction of instabilities in Czochralski melt flow configuration. <i>Journal of Crystal Growth</i> , 2011, 318, 156-161.	0.7	8
13	In Situ Calibration of Hot-Film Probes Using a Collocated Sonic Anemometer: Angular Probability Distribution Properties. <i>Journal of Atmospheric and Oceanic Technology</i> , 2011, 28, 104-110.	0.5	4
14	Three-Dimensional Numerical Modeling of Stratified Flows in Littoral Zone of Israel Using Shallow Water Approximation. <i>Notes on Numerical Fluid Mechanics and Multidisciplinary Design</i> , 2011, , 349-361.	0.2	0
15	Bulging and bending of Kelvin-Helmholtz billows controlled by symmetry and phase of initial perturbation. <i>Journal of Physics: Conference Series</i> , 2010, 216, 012019.	0.3	1
16	In Situ Calibration of Hot-Film Probes Using a Collocated Sonic Anemometer: Implementation of a Neural Network. <i>Journal of Atmospheric and Oceanic Technology</i> , 2010, 27, 23-41.	0.5	24
17	On a Turbulent Mixing Layer Created Downstream of a "Notch Simulating One Wavelength of a Chevron Nozzle. <i>Flow, Turbulence and Combustion</i> , 2009, 83, 371-388.	1.4	4
18	Shoreline migration and beach-nearshore sand balance over the last 200 years in Haifa Bay (SE) Tj ETQq0 0 0 rgBT /Overlock 10 Tf 50 62	0.5	26

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19	The 1956 Greek tsunami recorded at Yafo, Israel, and its numerical modeling. <i>Journal of Geophysical Research</i> , 2009, 114, .	3.3	28
20	Numerical modelling of instability and supercritical oscillatory states in a Czochralski model system of oxide melts. <i>Crystal Research and Technology</i> , 2008, 43, 606-615.	0.6	16
21	On periodically excited turbulent mixing layer created downstream of a plane Chevron partition. <i>Physica Scripta</i> , 2008, T132, 014008.	1.2	1
22	Evolution of a forced stratified mixing layer. <i>Physics of Fluids</i> , 2007, 19, 065107.	1.6	15
23	On the periodically excited plane turbulent mixing layer, emanating from a jagged partition. <i>Journal of Fluid Mechanics</i> , 2007, 589, 479-507.	1.4	24
24	Evolution of wide-spectrum unidirectional wave groups in a tank: an experimental and numerical study. <i>European Journal of Mechanics, B/Fluids</i> , 2007, 26, 193-219.	1.2	73
25	Longshore sand transport estimates along the Mediterranean coast of Israel in the Holocene. <i>Marine Geology</i> , 2007, 238, 61-73.	0.9	129
26	Spatial versus temporal instabilities in a parametrically forced stratified mixing layer. <i>Journal of Fluid Mechanics</i> , 2006, 552, 189.	1.4	22
27	The counterpropagating Rossby wave perspective on Kelvin Helmholtz instability as a limiting case of a Rayleigh shear layer with zero width. <i>Physics of Fluids</i> , 2006, 18, 018101.	1.6	9
28	Holocene evolution of the Haifa Bay area, Israel, and its influence on ancient tell settlements. <i>Holocene</i> , 2006, 16, 849-861.	0.9	46
29	Reconstruction of large coherent structures from SPIV measurements in a forced turbulent mixing layer. <i>Experiments in Fluids</i> , 2005, 39, 761-770.	1.1	10
30	Characteristics of Resuspension, Settling and Diffusion of Particulate Matter in a Water Column. <i>Environmental Fluid Mechanics</i> , 2005, 5, 415-441.	0.7	18
31	Closure to "Apparent Roughness in Wave" Current Flow: Implication for Coastal Studies" by Alexander Perlin and Eliezer Kit. <i>Journal of Hydraulic Engineering</i> , 2004, 130, 271-272.	0.7	0
32	Three-Dimensional Instabilities of Natural Convection Flow in a Vertical Cylinder With Partially Heated Sidewall. <i>Journal of Heat Transfer</i> , 2004, 126, 586.	1.2	16
33	Application of a Virtual-Boundary Method for the Numerical Study of Oscillations Developing Behind a Cylinder Near A Plane Wall. <i>Fluid Dynamics</i> , 2004, 39, 61-68.	0.2	7
34	Multiple states, stability and bifurcations of natural convection in a rectangular cavity with partially heated vertical walls. <i>Journal of Fluid Mechanics</i> , 2003, 492, 63-89.	1.4	29
35	ON THE SPATIAL VERSIONS OF THE ZAKHAROV AND DYSTHE MODELS. , 2003, , .		0
36	Apparent Roughness in Wave" Current Flow: Implication for Coastal Studies. <i>Journal of Hydraulic Engineering</i> , 2002, 128, 729-741.	0.7	18

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37	An experimental and numerical study of the spatial evolution of unidirectional nonlinear water-wave groups. <i>Physics of Fluids</i> , 2002, 14, 3380-3390.	1.6	59
38	Spatial versions of the Zakharov and Dysthe evolution equations for deep-water gravity waves. <i>Journal of Fluid Mechanics</i> , 2002, 450, 201-205.	1.4	57
39	Natural convection in a rectangular cavity with piece-wise heated vertical walls: multiple states, stability and bifurcations. , 2002, , .		2
40	Evolution of a nonlinear wave field along a tank: experiments and numerical simulations based on the spatial Zakharov equation. <i>Journal of Fluid Mechanics</i> , 2001, 427, 107-129.	1.4	70
41	Simulation of Transport Phenomena in Shallow Aquatic Environment. <i>Journal of Hydraulic Engineering</i> , 2000, 126, 123-136.	0.7	16
42	Nonlinear Wave Group Evolution in Shallow Water. <i>Journal of Waterway, Port, Coastal and Ocean Engineering</i> , 2000, 126, 221-228.	0.5	22
43	Longshore Sediment Transport on Mediterranean Coast of Israel. <i>Journal of Waterway, Port, Coastal and Ocean Engineering</i> , 1999, 125, 80-87.	0.5	41
44	Experiments on Nonlinear Wave Groups Shoaling in a Tank. , 1999, , .		0
45	On the onset of unsteadiness in confined vortex flows. <i>Fluid Dynamics Research</i> , 1998, 23, 125-152.	0.6	15
46	Dynamical Models for Cross-Shore Transport and Equilibrium Bottom Profiles. <i>Journal of Waterway, Port, Coastal and Ocean Engineering</i> , 1998, 124, 138-146.	0.5	19
47	Experiments on Nonlinear Wave Groups in Intermediate Water Depth. <i>Journal of Waterway, Port, Coastal and Ocean Engineering</i> , 1998, 124, 320-327.	0.5	54
48	Experiments on the Development of K-H Billows in Stratified Shear Layers. <i>Fluid Mechanics and Its Applications</i> , 1998, , 39-42.	0.1	0
49	Measurement of turbulence near shear-free density interfaces. <i>Journal of Fluid Mechanics</i> , 1997, 334, 293-314.	1.4	49
50	Frequency spectra of scalar fluctuations at entraining stratified interfaces. <i>Fluid Dynamics Research</i> , 1997, 19, 65-75.	0.6	0
51	Numerical study of axisymmetric vortex breakdown in an annulus. <i>Acta Mechanica</i> , 1996, 118, 79-95.	1.1	5
52	Frequency Spectra of Scalar and Velocity Fluctuations at Entraining Stratified Interfaces. <i>Fluid Mechanics and Its Applications</i> , 1996, , 595-596.	0.1	0
53	On the law of turbulent entrainment across a density interface. <i>Fluid Dynamics Research</i> , 1995, 15, 69-74.	0.6	0
54	Experimental examination of Eulerian frequency spectra in zero-mean shear turbulence. <i>Physics of Fluids</i> , 1995, 7, 1168-1170.	1.6	15

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55	Strongly localized events of energy, dissipation, enstrophy and enstrophy generation in turbulent flows. Fluid Dynamics Research, 1994, 14, 71-101.	0.6	15
56	On the Onset of Nonsteadiness in the Flows with Vortex Breakdown in a Cylindrical Container. , 1994, , 310-319.		1
57	Self-organization and fractal dynamics in turbulence. Physica A: Statistical Mechanics and Its Applications, 1993, 199, 453-475.	1.2	10
58	Experimental investigation of turbulent entrainment in an annulus with moving sidewalls. Experiments in Fluids, 1993, 15, 97-107.	1.1	2
59	Velocity gradients in a turbulent jet flow. Flow, Turbulence and Combustion, 1993, 51, 185-190.	0.2	10
60	The multiplicity of steady flows in confined doubleâ€œdiffusive convection with lateral heating. Physics of Fluids A, Fluid Dynamics, 1993, 5, 1062-1064.	1.6	24
61	On universality of geometrical invariants in turbulenceâ€œExperimental results. Physics of Fluids A, Fluid Dynamics, 1993, 5, 1523-1525.	1.6	16
62	Velocity Gradients in a Turbulent Jet Flow. Fluid Mechanics and Its Applications, 1993, , 185-190.	0.1	6
63	Experimental investigation of the field of velocity gradients in turbulent flows. Journal of Fluid Mechanics, 1992, 242, 169-192.	1.4	318
64	Simulation of an interferometric synthetic aperture radar imagery of an ocean system consisting of a current and a monochromatic wave. Journal of Geophysical Research, 1991, 96, 22063-22073.	3.3	30
65	Some experimental results on velocity and vorticity measurements in turbulent grid flows with controlled sign of mean helicity. Fluid Dynamics Research, 1991, 7, 65-75.	0.6	11
66	Turbulent flow generated in an annulus by a rotating screen. Acta Mechanica, 1991, 86, 167-177.	1.1	2
67	Experiments on entrainment in an annulus with and without velocity gradient across the density interface. Experiments in Fluids, 1991, 11, 45-57.	1.1	8
68	Measuring Invariant (Frame Independent) Quantities Composed of Velocity Derivatives in Turbulent Flows. , 1991, , 514-523.		9
69	Numerical solution of laminar flow generated in an annulus by rotating screens. Acta Mechanica, 1990, 83, 9-24.	1.1	2
70	Simultaneous visualization of density and velocity variations in a stratified shear flow. Experiments in Fluids, 1990, 9, 107-109.	1.1	1
71	On the neutral stability of crossâ€œwaves. Physics of Fluids A, Fluid Dynamics, 1989, 1, 1128-1132.	1.6	6
72	On dissipation coefficients in a rectangular wave tank. Acta Mechanica, 1989, 77, 171-180.	1.1	16

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73	Measurements of the dissipation coefficient at the wavemaker in the process of generation of the resonant standing waves in a tank. <i>Experiments in Fluids</i> , 1989, 7, 506-512.	1.1	19
74	Long-time evolution and regions of existence of parametrically excited nonlinear cross-waves in a tank. <i>Journal of Fluid Mechanics</i> , 1989, 209, 249-263.	1.4	12
75	Electromagnetic methods of turbulence measurements – shortcomings and advantage. <i>Experiments in Fluids</i> , 1988, 6, 44-48.	1.1	0
76	Study of the role of dissipation in evolution of nonlinear sloshing waves in a rectangular channel. <i>Fluid Dynamics Research</i> , 1988, 4, 89-105.	0.6	32
77	Vorticity measurements in turbulent grid flows. <i>Fluid Dynamics Research</i> , 1988, 3, 289-294.	0.6	13
78	Flow characteristics along the rip current system under low-energy conditions. <i>Marine Geology</i> , 1988, 82, 149-167.	0.9	31
79	Flow characteristics at the rip current neck under low energy conditions. <i>Marine Geology</i> , 1988, 79, 41-54.	0.9	25
80	Experimental and Numerical Study of Long-time Evolution of Standing Waves in a Rectangular Tank. , 1988, , 103-110.		0
81	An experimental study of helicity related properties of a turbulent flow past a grid. <i>Physics of Fluids</i> , 1987, 30, 3323.	1.4	35
82	Experimental and theoretical investigation of nonlinear sloshing waves in a rectangular channel. <i>Journal of Fluid Mechanics</i> , 1987, 181, 265.	1.4	39
83	On the relevance of the potential-difference method for turbulence measurements. <i>Journal of Fluid Mechanics</i> , 1987, 175, 447.	1.4	30
84	Measurements of two- and three-dimensional waves in a channel, including the vicinity of cut-off frequencies. <i>Experiments in Fluids</i> , 1986, 5, 66-72.	1.1	39
85	On the impedance of the pipe in laminar and turbulent pulsating flows. <i>Experiments in Fluids</i> , 1985, 3, 185-189.	1.1	14
86	Large-scale structures in a forced turbulent mixing layer. <i>Journal of Fluid Mechanics</i> , 1985, 150, 23-39.	1.4	284
87	Pulsating flow in a pipe. <i>Journal of Fluid Mechanics</i> , 1985, 153, 313.	1.4	101
88	An experimental investigation of the quasisteady turbulent pulsating flow in a pipe. <i>Physics of Fluids</i> , 1984, 27, 72.	1.4	19
89	Closure to “Particle Motion under Stokes Waves” by Eliezer Kit and Michael Stiassnie (August, 1981). <i>Journal of Waterway, Port, Coastal and Ocean Engineering</i> , 1983, 109, 143-143.	0.5	0
90	Vertical Mixing Induced By Wind And a Rotating Screen In A Stratified Fluid in A Channel. <i>Journal of Hydraulic Research/De Recherches Hydrauliques</i> , 1980, 18, 35-58.	0.7	39