

Eliezer Kit

List of Publications by Year in descending order

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90
papers

2,381
citations

236925
25
h-index

214800
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. Physical Review Fluids, 2021, 6, .	2.5	3
2	Measurements of mixing parameters in atmospheric stably stratified parallel shear flow. Environmental Fluid Mechanics, 2020, 20, 1177-1197.	1.6	7
3	Trapped Low Frequency Waves on the Northern Israeli Continental Shelf. Journal of Geophysical Research: Oceans, 2020, 125, e2020JC016400.	2.6	0
4	Inertial range skewness of the longitudinal velocity derivative in locally isotropic turbulence. Physical Review Fluids, 2018, 3, .	2.5	7
5	Fine-scale turbulent bursts in stable Atmospheric boundary layer in complex terrain. Journal of Fluid Mechanics, 2017, 833, 745-772.	3.4	18
6	3D-calibration of three- and four-sensor hot-film probes based on collocated sonic using neural networks. Measurement Science and Technology, 2016, 27, 095901.	2.6	9
7	Effect of the capillary meniscus height on the instability of large Prandtl number Czochralski melt flow. Journal of Crystal Growth, 2016, 453, 20-26.	1.5	3
8	Experimental study of cold plume instability in large Prandtl number Czochralski melt: Parametric dependences and scaling laws. Journal of Crystal Growth, 2016, 438, 38-42.	1.5	4
9	The MATERHORN: Unraveling the Intricacies of Mountain Weather. Bulletin of the American Meteorological Society, 2015, 96, 1945-1967.	3.3	145
10	Study of in situ calibration performance of co-located multi-sensor hot-film and sonic anemometers using a "virtual probe" algorithm. Measurement Science and Technology, 2014, 25, 075801.	2.6	10
11	Experimental Modelling of Czochralski Melt Flow with a Slow Crystal Dummy Rotation. Acta Physica Polonica A, 2013, 124, 193-197.	0.5	4
12	On experimental and numerical prediction of instabilities in Czochralski melt flow configuration. Journal of Crystal Growth, 2011, 318, 156-161.	1.5	8
13	In Situ Calibration of Hot-Film Probes Using a Collocated Sonic Anemometer: Angular Probability Distribution Properties. Journal of Atmospheric and Oceanic Technology, 2011, 28, 104-110.	1.3	4
14	Three-Dimensional Numerical Modeling of Stratified Flows in Littoral Zone of Israel Using Shallow Water Approximation. Notes on Numerical Fluid Mechanics and Multidisciplinary Design, 2011, , 349-361.	0.3	0
15	Bulging and bending of Kelvin-Helmholtz billows controlled by symmetry and phase of initial perturbation. Journal of Physics: Conference Series, 2010, 216, 012019.	0.4	1
16	In Situ Calibration of Hot-Film Probes Using a Collocated Sonic Anemometer: Implementation of a Neural Network. Journal of Atmospheric and Oceanic Technology, 2010, 27, 23-41.	1.3	24
17	On a Turbulent Mixing Layer Created Downstream of a "Notch" Simulating One Wavelength of a Chevron Nozzle. Flow, Turbulence and Combustion, 2009, 83, 371-388.	2.6	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	1.1	26

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19	The 1956 Greek tsunami recorded at Yafo, Israel, and its numerical modeling. Journal of Geophysical Research, 2009, 114, .	3.3	28
20	Numerical modelling of instability and supercritical oscillatory states in a Czochralski model system of oxide melts. Crystal Research and Technology, 2008, 43, 606-615.	1.3	16
21	On periodically excited turbulent mixing layer created downstream of a plane Chevron partition. Physica Scripta, 2008, T132, 014008.	2.5	1
22	Evolution of a forced stratified mixing layer. Physics of Fluids, 2007, 19, 065107.	4.0	15
23	On the periodically excited plane turbulent mixing layer, emanating from a jagged partition. Journal of Fluid Mechanics, 2007, 589, 479-507.	3.4	24
24	Evolution of wide-spectrum unidirectional wave groups in a tank: an experimental and numerical study. European Journal of Mechanics, B/Fluids, 2007, 26, 193-219.	2.5	73
25	Longshore sand transport estimates along the Mediterranean coast of Israel in the Holocene. Marine Geology, 2007, 238, 61-73.	2.1	129
26	Spatial versus temporal instabilities in a parametrically forced stratified mixing layer. Journal of Fluid Mechanics, 2006, 552, 189.	3.4	22
27	The counterpropagating Rossby wave perspective on Kelvin Helmholtz instability as a limiting case of a Rayleigh shear layer with zero width. Physics of Fluids, 2006, 18, 018101.	4.0	9
28	Holocene evolution of the Haifa Bay area, Israel, and its influence on ancient tell settlements. Holocene, 2006, 16, 849-861.	1.7	46
29	Reconstruction of large coherent structures from SPIV measurements in a forced turbulent mixing layer. Experiments in Fluids, 2005, 39, 761-770.	2.4	10
30	Characteristics of Resuspension, Settling and Diffusion of Particulate Matter in a Water Column. Environmental Fluid Mechanics, 2005, 5, 415-441.	1.6	18
31	Closure to "Apparent Roughness in Wave-Covered Current Flow: Implication for Coastal Studies" by Alexander Perlin and Eliezer Kit. Journal of Hydraulic Engineering, 2004, 130, 271-272.	1.5	0
32	Three-Dimensional Instabilities of Natural Convection Flow in a Vertical Cylinder With Partially Heated Sidewall. Journal of Heat Transfer, 2004, 126, 586.	2.1	16
33	Application of a Virtual-Boundary Method for the Numerical Study of Oscillations Developing Behind a Cylinder Near A Plane Wall. Fluid Dynamics, 2004, 39, 61-68.	0.9	7
34	Multiple states, stability and bifurcations of natural convection in a rectangular cavity with partially heated vertical walls. Journal of Fluid Mechanics, 2003, 492, 63-89.	3.4	29
35	ON THE SPATIAL VERSIONS OF THE ZAKHAROV AND DYSTHE MODELS. , 2003, , .		0
36	Apparent Roughness in Wave-Covered Current Flow: Implication for Coastal Studies. Journal of Hydraulic Engineering, 2002, 128, 729-741.	1.5	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.	4.0	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.	3.4	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.	3.4	70
41	Simulation of Transport Phenomena in Shallow Aquatic Environment. <i>Journal of Hydraulic Engineering</i> , 2000, 126, 123-136.	1.5	16
42	Nonlinear Wave Group Evolution in Shallow Water. <i>Journal of Waterway, Port, Coastal and Ocean Engineering</i> , 2000, 126, 221-228.	1.2	22
43	Longshore Sediment Transport on Mediterranean Coast of Israel. <i>Journal of Waterway, Port, Coastal and Ocean Engineering</i> , 1999, 125, 80-87.	1.2	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.	1.3	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.	1.2	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.	1.2	54
48	Experiments on the Development of K-H Billows in Stratified Shear Layers. <i>Fluid Mechanics and Its Applications</i> , 1998, , 39-42.	0.2	0
49	Measurement of turbulence near shear-free density interfaces. <i>Journal of Fluid Mechanics</i> , 1997, 334, 293-314.	3.4	49
50	Frequency spectra of scalar fluctuations at entraining stratified interfaces. <i>Fluid Dynamics Research</i> , 1997, 19, 65-75.	1.3	0
51	Numerical study of axisymmetric vortex breakdown in an annulus. <i>Acta Mechanica</i> , 1996, 118, 79-95.	2.1	5
52	Frequency Spectra of Scalar and Velocity Fluctuations at Entraining Stratified Interfaces. <i>Fluid Mechanics and Its Applications</i> , 1996, , 595-596.	0.2	0
53	On the law of turbulent entrainment across a density interface. <i>Fluid Dynamics Research</i> , 1995, 15, 69-74.	1.3	0
54	Experimental examination of Eulerian frequency spectra in zero-mean shear turbulence. <i>Physics of Fluids</i> , 1995, 7, 1168-1170.	4.0	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.	1.3	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.	2.6	10
58	Experimental investigation of turbulent entrainment in an annulus with moving sidewalls. Experiments in Fluids, 1993, 15, 97-107.	2.4	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.	0.2	6
63	Experimental investigation of the field of velocity gradients in turbulent flows. Journal of Fluid Mechanics, 1992, 242, 169-192.	3.4	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.	1.3	11
66	Turbulent flow generated in an annulus by a rotating screen. Acta Mechanica, 1991, 86, 167-177.	2.1	2
67	Experiments on entrainment in an annulus with and without velocity gradient across the density interface. Experiments in Fluids, 1991, 11, 45-57.	2.4	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.	2.1	2
70	Simultaneous visualization of density and velocity variations in a stratified shear flow. Experiments in Fluids, 1990, 9, 107-109.	2.4	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.	2.1	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. Experiments in Fluids, 1989, 7, 506-512.	2.4	19
74	Long-time evolution and regions of existence of parametrically excited nonlinear cross-waves in a tank. Journal of Fluid Mechanics, 1989, 209, 249-263.	3.4	12
75	Electromagnetic methods of turbulence measurements – shortcomings and advantage. Experiments in Fluids, 1988, 6, 44-48.	2.4	0
76	Study of the role of dissipation in evolution of nonlinear sloshing waves in a rectangular channel. Fluid Dynamics Research, 1988, 4, 89-105.	1.3	32
77	Vorticity measurements in turbulent grid flows. Fluid Dynamics Research, 1988, 3, 289-294.	1.3	13
78	Flow characteristics along the rip current system under low-energy conditions. Marine Geology, 1988, 82, 149-167.	2.1	31
79	Flow characteristics at the rip current neck under low energy conditions. Marine Geology, 1988, 79, 41-54.	2.1	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. Physics of Fluids, 1987, 30, 3323.	1.4	35
82	Experimental and theoretical investigation of nonlinear sloshing waves in a rectangular channel. Journal of Fluid Mechanics, 1987, 181, 265.	3.4	39
83	On the relevance of the potential-difference method for turbulence measurements. Journal of Fluid Mechanics, 1987, 175, 447.	3.4	30
84	Measurements of two- and three-dimensional waves in a channel, including the vicinity of cut-off frequencies. Experiments in Fluids, 1986, 5, 66-72.	2.4	39
85	On the impedance of the pipe in laminar and turbulent pulsating flows. Experiments in Fluids, 1985, 3, 185-189.	2.4	14
86	Large-scale structures in a forced turbulent mixing layer. Journal of Fluid Mechanics, 1985, 150, 23-39.	3.4	284
87	Pulsating flow in a pipe. Journal of Fluid Mechanics, 1985, 153, 313.	3.4	101
88	An experimental investigation of the quasisteady turbulent pulsating flow in a pipe. Physics of Fluids, 1984, 27, 72.	1.4	19
89	Closure to “Particle Motion under Stokes Waves” by Eliezer Kit and Michael Stiassnie (August, 1981). Journal of Waterway, Port, Coastal and Ocean Engineering, 1983, 109, 143-143.	1.2	0
90	Vertical Mixing Induced By Wind And A Rotating Screen In A Stratified Fluid In A Channel. Journal of Hydraulic Research/De Recherches Hydrauliques, 1980, 18, 35-58.	1.7	39