

Eliezer Kit

List of Publications by Year in descending order

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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	Experimental investigation of the field of velocity gradients in turbulent flows. Journal of Fluid Mechanics, 1992, 242, 169-192.	1.4	318
2	Large-scale structures in a forced turbulent mixing layer. Journal of Fluid Mechanics, 1985, 150, 23-39.	1.4	284
3	The MATERHORN: Unraveling the Intricacies of Mountain Weather. Bulletin of the American Meteorological Society, 2015, 96, 1945-1967.	1.7	145
4	Longshore sand transport estimates along the Mediterranean coast of Israel in the Holocene. Marine Geology, 2007, 238, 61-73.	0.9	129
5	Pulsating flow in a pipe. Journal of Fluid Mechanics, 1985, 153, 313.	1.4	101
6	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.	1.2	73
7	Evolution of a nonlinear wave field along a tank: experiments and numerical simulations based on the spatial Zakharov equation. Journal of Fluid Mechanics, 2001, 427, 107-129.	1.4	70
8	An experimental and numerical study of the spatial evolution of unidirectional nonlinear water-wave groups. Physics of Fluids, 2002, 14, 3380-3390.	1.6	59
9	Spatial versions of the Zakharov and Dysthe evolution equations for deep-water gravity waves. Journal of Fluid Mechanics, 2002, 450, 201-205.	1.4	57
10	Experiments on Nonlinear Wave Groups in Intermediate Water Depth. Journal of Waterway, Port, Coastal and Ocean Engineering, 1998, 124, 320-327.	0.5	54
11	Measurement of turbulence near shear-free density interfaces. Journal of Fluid Mechanics, 1997, 334, 293-314.	1.4	49
12	Holocene evolution of the Haifa Bay area, Israel, and its influence on ancient tell settlements. Holocene, 2006, 16, 849-861.	0.9	46
13	Longshore Sediment Transport on Mediterranean Coast of Israel. Journal of Waterway, Port, Coastal and Ocean Engineering, 1999, 125, 80-87.	0.5	41
14	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.	0.7	39
15	Measurements of two- and three-dimensional waves in a channel, including the vicinity of cut-off frequencies. Experiments in Fluids, 1986, 5, 66-72.	1.1	39
16	Experimental and theoretical investigation of nonlinear sloshing waves in a rectangular channel. Journal of Fluid Mechanics, 1987, 181, 265.	1.4	39
17	An experimental study of helicity related properties of a turbulent flow past a grid. Physics of Fluids, 1987, 30, 3323.	1.4	35
18	Study of the role of dissipation in evolution of nonlinear sloshing waves in a rectangular channel. Fluid Dynamics Research, 1988, 4, 89-105.	0.6	32

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19	Flow characteristics along the rip current system under low-energy conditions. <i>Marine Geology</i> , 1988, 82, 149-167.	0.9	31
20	On the relevance of the potential-difference method for turbulence measurements. <i>Journal of Fluid Mechanics</i> , 1987, 175, 447.	1.4	30
21	Simulation of an interferometric synthetic aperture radar imagery of an ocean system consisting of a current and a monochromatic wave. <i>Journal of Geophysical Research</i> , 1991, 96, 22063-22073.	3.3	30
22	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
23	The 1956 Greek tsunami recorded at Yafo, Israel, and its numerical modeling. <i>Journal of Geophysical Research</i> , 2009, 114, .	3.3	28
24	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 54	0.5	26
25	Flow characteristics at the rip current neck under low energy conditions. <i>Marine Geology</i> , 1988, 79, 41-54.	0.9	25
26	The multiplicity of steady flows in confined doubleâ€diffusive convection with lateral heating. <i>Physics of Fluids A, Fluid Dynamics</i> , 1993, 5, 1062-1064.	1.6	24
27	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
28	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
29	Nonlinear Wave Group Evolution in Shallow Water. <i>Journal of Waterway, Port, Coastal and Ocean Engineering</i> , 2000, 126, 221-228.	0.5	22
30	Spatial versus temporal instabilities in a parametrically forced stratified mixing layer. <i>Journal of Fluid Mechanics</i> , 2006, 552, 189.	1.4	22
31	An experimental investigation of the quasisteady turbulent pulsating flow in a pipe. <i>Physics of Fluids</i> , 1984, 27, 72.	1.4	19
32	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
33	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
34	Apparent Roughness in Waveâ€Current Flow: Implication for Coastal Studies. <i>Journal of Hydraulic Engineering</i> , 2002, 128, 729-741.	0.7	18
35	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
36	Fine-scale turbulent bursts in stableâ€atmospheric boundary layer in complex terrain. <i>Journal of Fluid Mechanics</i> , 2017, 833, 745-772.	1.4	18

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37	On dissipation coefficients in a rectangular wave tank. <i>Acta Mechanica</i> , 1989, 77, 171-180.	1.1	16
38	On universality of geometrical invariants in turbulence—Experimental results. <i>Physics of Fluids A, Fluid Dynamics</i> , 1993, 5, 1523-1525.	1.6	16
39	Simulation of Transport Phenomena in Shallow Aquatic Environment. <i>Journal of Hydraulic Engineering</i> , 2000, 126, 123-136.	0.7	16
40	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
41	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
42	Strongly localized events of energy, dissipation, enstrophy and enstrophy generation in turbulent flows. <i>Fluid Dynamics Research</i> , 1994, 14, 71-101.	0.6	15
43	Experimental examination of Eulerian frequency spectra in zero-mean shear turbulence. <i>Physics of Fluids</i> , 1995, 7, 1168-1170.	1.6	15
44	On the onset of unsteadiness in confined vortex flows. <i>Fluid Dynamics Research</i> , 1998, 23, 125-152.	0.6	15
45	Evolution of a forced stratified mixing layer. <i>Physics of Fluids</i> , 2007, 19, 065107.	1.6	15
46	On the impedance of the pipe in laminar and turbulent pulsating flows. <i>Experiments in Fluids</i> , 1985, 3, 185-189.	1.1	14
47	Vorticity measurements in turbulent grid flows. <i>Fluid Dynamics Research</i> , 1988, 3, 289-294.	0.6	13
48	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
49	Some experimental results on velocity and vorticity measurements in turbulent grid flows with controlled sign of mean helicity. <i>Fluid Dynamics Research</i> , 1991, 7, 65-75.	0.6	11
50	Self-organization and fractal dynamics in turbulence. <i>Physica A: Statistical Mechanics and Its Applications</i> , 1993, 199, 453-475.	1.2	10
51	Velocity gradients in a turbulent jet flow. <i>Flow, Turbulence and Combustion</i> , 1993, 51, 185-190.	0.2	10
52	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
53	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
54	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

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55	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
56	Measuring Invariant (Frame Independent) Quantities Composed of Velocity Derivatives in Turbulent Flows. , 1991, , 514-523.		9
57	Experiments on entrainment in an annulus with and without velocity gradient across the density interface. <i>Experiments in Fluids</i> , 1991, 11, 45-57.	1.1	8
58	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
59	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
60	Measurements of mixing parameters in atmospheric stably stratified parallel shear flow. <i>Environmental Fluid Mechanics</i> , 2020, 20, 1177-1197.	0.7	7
61	Inertial range skewness of the longitudinal velocity derivative in locally isotropic turbulence. <i>Physical Review Fluids</i> , 2018, 3, .	1.0	7
62	On the neutral stability of crossâ€waves. <i>Physics of Fluids A, Fluid Dynamics</i> , 1989, 1, 1128-1132.	1.6	6
63	Velocity Gradients in a Turbulent Jet Flow. <i>Fluid Mechanics and Its Applications</i> , 1993, , 185-190.	0.1	6
64	Numerical study of axisymmetric vortex breakdown in an annulus. <i>Acta Mechanica</i> , 1996, 118, 79-95.	1.1	5
65	On a Turbulent Mixing Layer Created Downstream of a â€œâ€•Notch Simulating One Wavelength of a Chevron Nozzle. <i>Flow, Turbulence and Combustion</i> , 2009, 83, 371-388.	1.4	4
66	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
67	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
68	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
69	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
70	Structure functions in nocturnal atmospheric boundary layer turbulence. <i>Physical Review Fluids</i> , 2021, 6, .	1.0	3
71	Numerical solution of laminar flow generated in an annulus by rotating screens. <i>Acta Mechanica</i> , 1990, 83, 9-24.	1.1	2
72	Turbulent flow generated in an annulus by a rotating screen. <i>Acta Mechanica</i> , 1991, 86, 167-177.	1.1	2

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73	Experimental investigation of turbulent entrainment in an annulus with moving sidewalls. Experiments in Fluids, 1993, 15, 97-107.	1.1	2
74	Natural convection in a rectangular cavity with piece-wise heated vertical walls: multiple states, stability and bifurcations. , 2002, , .		2
75	Simultaneous visualization of density and velocity variations in a stratified shear flow. Experiments in Fluids, 1990, 9, 107-109.	1.1	1
76	On periodically excited turbulent mixing layer created downstream of a plane Chevron partition. Physica Scripta, 2008, T132, 014008.	1.2	1
77	Bulging and bending of Kelvin-Helmholtz billows controlled by symmetry and phase of initial perturbation. Journal of Physics: Conference Series, 2010, 216, 012019.	0.3	1
78	On the Onset of Nonsteadiness in the Flows with Vortex Breakdown in a Cylindrical Container. , 1994, , 310-319.		1
79	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.	0.5	0
80	Electromagnetic methods of turbulence measurements " shortcomings and advantage. Experiments in Fluids, 1988, 6, 44-48.	1.1	0
81	On the law of turbulent entrainment across a density interface. Fluid Dynamics Research, 1995, 15, 69-74.	0.6	0
82	Frequency spectra of scalar fluctuations at entraining stratified interfaces. Fluid Dynamics Research, 1997, 19, 65-75.	0.6	0
83	Closure to "Apparent Roughness in Wave"Current Flow: Implication for Coastal Studies"by Alexander Perlin and Eliezer Kit. Journal of Hydraulic Engineering, 2004, 130, 271-272.	0.7	0
84	Trapped Low Frequency Waves on the Northern Israeli Continental Shelf. Journal of Geophysical Research: Oceans, 2020, 125, e2020JC016400.	1.0	0
85	ON THE SPATIAL VERSIONS OF THE ZAKHAROV AND DYSTHE MODELS. , 2003, , .		0
86	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.	0.2	0
87	Experimental and Numerical Study of Long-time Evolution of Standing Waves in a Rectangular Tank. , 1988, , 103-110.		0
88	Frequency Spectra of Scalar and Velocity Fluctuations at Entraining Stratified Interfaces. Fluid Mechanics and Its Applications, 1996, , 595-596.	0.1	0
89	Experiments on the Development of K-H Billows in Stratified Shear Layers. Fluid Mechanics and Its Applications, 1998, , 39-42.	0.1	0
90	Experiments on Nonlinear Wave Groups Shoaling in a Tank. , 1999, , .		0