Eliezer Kit

List of Publications by Year
in descending order

Version: 2024-02-01

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	Experimental investigation of the field of velocity gradients in turbulent flows. Journal of Fluid Mechanics, 1992, 242, 169-192.	3.4	318
2	Large-scale structures in a forced turbulent mixing layer. Journal of Fluid Mechanics, 1985, 150, 23-39.	3.4	284
3	The MATERHORN: Unraveling the Intricacies of Mountain Weather. Bulletin of the American Meteorological Society, 2015, 96, 1945-1967.	3.3	145
4	Longshore sand transport estimates along the Mediterranean coast of Israel in the Holocene. Marine Geology, 2007, 238, 61-73.	2.1	129
5	Pulsating flow in a pipe. Journal of Fluid Mechanics, 1985, 153, 313.	3.4	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.	2.5	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.	3.4	70
8	An experimental and numerical study of the spatial evolution of unidirectional nonlinear water-wave groups. Physics of Fluids, 2002, 14, 3380-3390.	4.0	59
9	Spatial versions of the Zakharov and Dysthe evolution equations for deep-water gravity waves. Journal of Fluid Mechanics, 2002, 450, 201-205.	3.4	57
10	Experiments on Nonlinear Wave Groups in Intermediate Water Depth. Journal of Waterway, Port, Coastal and Ocean Engineering, 1998, 124, 320-327.	1.2	54
11	Measurement of turbulence near shear-free density interfaces. Journal of Fluid Mechanics, 1997, 334, 293-314.	3.4	49
12	Holocene evolution of the Haifa Bay area, Israel, and its influence on ancient tell settlements. Holocene, 2006, 16, 849-861.	1.7	46
13	Longshore Sediment Transport on Mediterranean Coast of Israel. Journal of Waterway, Port, Coastal and Ocean Engineering, 1999, 125, 80-87.	1.2	41
14	Vertical Mixing Induced By Wind Anda Rotating Screen In A Stratified Fluidin A Channel. Journal of Hydraulic Research/De Recherches Hydrauliques, 1980, 18, 35-58.	1.7	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.	2.4	39
16	Experimental and theoretical investigation of nonlinear sloshing waves in a rectangular channel. Journal of Fluid Mechanics, 1987, 181, 265.	3.4	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.	1.3	32

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19	Flow characteristics along the rip current system under low-energy conditions. Marine Geology, 1988, 82, 149-167.	2.1	31
20	On the relevance of the potential-difference method for turbulence measurements. Journal of Fluid Mechanics, 1987, 175, 447.	3.4	30
21	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
22	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
23	The 1956 Greek tsunami recorded at Yafo, Israel, and its numerical modeling. Journal of Geophysical Research, 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	1.1	26
25	Flow characteristics at the rip current neck under low energy conditions. Marine Geology, 1988, 79, 41-54.	2.1	25
26	The multiplicity of steady flows in confined doubleâ€diffusive convection with lateral heating. Physics of Fluids A, Fluid Dynamics, 1993, 5, 1062-1064.	1.6	24
27	On the periodically excited plane turbulent mixing layer, emanating from a jagged partition. Journal of Fluid Mechanics, 2007, 589, 479-507.	3.4	24
28	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
29	Nonlinear Wave Group Evolution in Shallow Water. Journal of Waterway, Port, Coastal and Ocean Engineering, 2000, 126, 221-228.	1.2	22
30	Spatial versus temporal instabilities in a parametrically forced stratified mixing layer. Journal of Fluid Mechanics, 2006, 552, 189.	3.4	22
31	An experimental investigation of the quasisteady turbulent pulsating flow in a pipe. Physics of Fluids, 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. Experiments in Fluids, 1989, 7, 506-512.	2.4	19
33	Dynamical Models for Cross-Shore Transport and Equilibrium Bottom Profiles. Journal of Waterway, Port, Coastal and Ocean Engineering, 1998, 124, 138-146.	1.2	19
34	Apparent Roughness in Waveâ€“Current Flow: Implication for Coastal Studies. Journal of Hydraulic Engineering, 2002, 128, 729-741.	1.5	18
35	Characteristics of Resuspension, Settling and Diffusion of Particulate Matter in a Water Column. Environmental Fluid Mechanics, 2005, 5, 415-441.	1.6	18
36	Fine-scale turbulent bursts in stableÂatmospheric boundary layer in complex terrain. Journal of Fluid Mechanics, 2017, 833, 745-772.	3.4	18

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37	On dissipation coefficients in a rectangular wave tank. Acta Mechanica, 1989, 77, 171-180.	2.1	16
38	On universality of geometrical invariants in turbulenceâ€"Experimental results. Physics of Fluids A, Fluid Dynamics, 1993, 5, 1523-1525.	1.6	16
39	Simulation of Transport Phenomena in Shallow Aquatic Environment. Journal of Hydraulic Engineering, 2000, 126, 123-136.	1.5	16
40	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
41	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
42	Strongly localized events of energy, dissipation, enstrophy and enstrophy generation in turbulent flows. Fluid Dynamics Research, 1994, 14, 71-101.	1.3	15
43	Experimental examination of Eulerian frequency spectra in zeroâ€meanâ€shear turbulence. Physics of Fluids, 1995, 7, 1168-1170.	4.0	15
44	On the onset of unsteadiness in confined vortex flows. Fluid Dynamics Research, 1998, 23, 125-152.	1.3	15
45	Evolution of a forced stratified mixing layer. Physics of Fluids, 2007, 19, 065107.	4.0	15
46	On the impedance of the pipe in laminar and turbulent pulsating flows. Experiments in Fluids, 1985, 3, 185-189.	2.4	14
47	Vorticity measurements in turbulent grid flows. Fluid Dynamics Research, 1988, 3, 289-294.	1.3	13
48	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
49	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
50	Self-organization and fractal dynamics in turbulence. Physica A: Statistical Mechanics and Its Applications, 1993, 199, 453-475.	2.6	10
51	Velocity gradients in a turbulent jet flow. Flow, Turbulence and Combustion, 1993, 51, 185-190.	0.2	10
52	Reconstruction of large coherent structures from SPIV measurements in a forced turbulent mixing layer. Experiments in Fluids, 2005, 39, 761-770.	2.4	10
53	Study ofin situcalibration performance of co-located multi-sensor hot-film and sonic anemometers using a â€˜virtual probeâ€™ algorithm. Measurement Science and Technology, 2014, 25, 075801.	2.6	10
54	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

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55	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
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. Experiments in Fluids, 1991, 11, 45-57.	2.4	8
58	On experimental and numerical prediction of instabilities in Czochralski melt flow configuration. Journal of Crystal Growth, 2011, 318, 156-161.	1.5	8
59	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
60	Measurements of mixing parameters in atmospheric stably stratified parallel shear flow. Environmental Fluid Mechanics, 2020, 20, 1177-1197.	1.6	7
61	Inertial range skewness of the longitudinal velocity derivative in locally isotropic turbulence. Physical Review Fluids, 2018, 3, .	2.5	7
62	On the neutral stability of crossâ€waves. Physics of Fluids A, Fluid Dynamics, 1989, 1, 1128-1132.	1.6	6
63	Velocity Gradients in a Turbulent Jet Flow. Fluid Mechanics and Its Applications, 1993, , 185-190.	0.2	6
64	Numerical study of axisymmetric vortex breakdown in an annulus. Acta Mechanica, 1996, 118, 79-95.	2.1	5
65	On a Turbulent Mixing Layer Created Downstream of a â€œÎ›â€•Notch Simulating One Wavelength of a Chevron Nozzle. Flow, Turbulence and Combustion, 2009, 83, 371-388.	2.6	4
66	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
67	Experimental Modelling of Czochralski Melt Flow with a Slow Crystal Dummy Rotation. Acta Physica Polonica A, 2013, 124, 193-197.	0.5	4
68	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
69	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
70	Structure functions in nocturnal atmospheric boundary layer turbulence. Physical Review Fluids, 2021, 6, .	2.5	3
71	Numerical solution of laminar flow generated in an annulus by rotating screens. Acta Mechanica, 1990, 83, 9-24.	2.1	2
72	Turbulent flow generated in an annulus by a rotating screen. Acta Mechanica, 1991, 86, 167-177.	2.1	2

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73	Experimental investigation of turbulent entrainment in an annulus with moving sidewalls. Experiments in Fluids, 1993, 15, 97-107.	2.4	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.	2.4	1
76	On periodically excited turbulent mixing layer created downstream of a plane Chevron partition. Physica Scripta, 2008, T132, 014008.	2.5	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.	0.4	1
78	On the Onset of Nonsteadiness in the Flows with Vortex Breakdown in a Cylindrical Container. , 1994, , 310-319.		1
79	Closure to â€œ Particle Motion under Stokes Waves â€•by Eliezer Kit and Michael Stiassnie (August, 1981). Journal of Waterway, Port, Coastal and Ocean Engineering, 1983, 109, 143-143.	1.2	0
80	Electromagnetic methods of turbulence measurements â€" shortcomings and advantage. Experiments in Fluids, 1988, 6, 44-48.	2.4	0
81	On the law of turbulent entrainment across a density interface. Fluid Dynamics Research, 1995, 15, 69-74.	1.3	0
82	Frequency spectra of scalar fluctuations at entraining stratified interfaces. Fluid Dynamics Research, 1997, 19, 65-75.	1.3	0
83	Closure to â€œApparent Roughness in Waveâ€"Current Flow: Implication for Coastal Studiesâ€•by Alexander Perlin and Eliezer Kit. Journal of Hydraulic Engineering, 2004, 130, 271-272.	1.5	0
84	Trapped Low Frequency Waves on the Northern Israeli Continental Shelf. Journal of Geophysical Research: Oceans, 2020, 125, e2020JC016400.	2.6	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.	0.3	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.	0.2	0
89	Experiments on the Development of K-H Billows in Stratified Shear Layers. Fluid Mechanics and Its Applications, 1998, , 39-42.	0.2	0
90	Experiments on Nonlinear Wave Groups Shoaling in a Tank. , 1999, , .		0