Nathan Paldor

List of Publications by Year in descending order

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Νλτηνη Βνισορ

#	Article	IF	CITATIONS
1	Wave propagation and growth on a surface front in a two-layer geostrophic current. Journal of Marine Research, 1984, 42, 761-785.	0.3	107
2	Hydrographic indications of advection/convection effects in the Gulf of Elat. Deep-sea Research Part A, Oceanographic Research Papers, 1992, 39, 1393-1401.	1.5	92
3	Tropical Plumes over Eastern North Africa as a Source of Rain in the Middle East. Monthly Weather Review, 2007, 135, 4135-4148.	1.4	74
4	Constraints on effective diffusivity during oxygen isotope exchange at a marble-schist contact, Sifnos (Cyclades), Greece. Earth and Planetary Science Letters, 1989, 94, 208-216.	4.4	61
5	Seasonal variations of temperature and salinity in the Gulf of Elat (Aqaba). Deep-sea Research Part A, Oceanographic Research Papers, 1979, 26, 661-672.	1.5	60
6	Simulation of wind-driven circulation in the Gulf of Elat (Aqaba). Journal of Marine Systems, 2000, 26, 349-365.	2.1	55
7	The Behavior of Groundwater in the Vicinity of the Water Table Evidenced by Specific Discharge Profiles. Water Resources Research, 1986, 22, 1217-1224.	4.2	49
8	Stability of a potential vorticity front: from quasi-geostrophy to shallow water. Journal of Fluid Mechanics, 1996, 315, 65-84.	3.4	47
9	Stability and stable modes of coastal fronts. Geophysical and Astrophysical Fluid Dynamics, 1983, 27, 217-228.	1.2	40
10	Linear stability and stable modes of geostrophic fronts. Geophysical and Astrophysical Fluid Dynamics, 1983, 24, 299-326.	1.2	37
11	Inertial Trajectories on a Rotating Earth. Journals of the Atmospheric Sciences, 1988, 45, 4013-4019.	1.7	36
12	A Consistent Theory for Linear Waves of the Shallow-Water Equations on a Rotating Plane in Midlatitudes. Journal of Physical Oceanography, 2007, 37, 115-128.	1.7	31
13	Estimating Air–Sea Heat Fluxes in Semienclosed Basins: The Case of the Gulf of Elat (Aqaba). Journal of Physical Oceanography, 2009, 39, 185-202.	1.7	30
14	Annual SST cycle in the Eastern Mediterranean, Red Sea and Gulf of Elat. Geophysical Research Letters, 2003, 30, n/a-n/a.	4.0	28
15	Polynomial cointegration tests of anthropogenic impact on global warming. Earth System Dynamics, 2012, 3, 173-188.	7.1	28
16	Instabilities of a two-layer coupled front. Deep-sea Research Part A, Oceanographic Research Papers, 1987, 34, 1525-1539.	1.5	27
17	Finite-Wavelength Instabilities of a Coupled Density Front. Journal of Physical Oceanography, 1990, 20, 114-123.	1.7	24
18	Shortwave instabilities of coastal currents. Geophysical and Astrophysical Fluid Dynamics, 1991, 58, 225-241.	1.2	24

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19	Mass exchange between mobile freshwater and immobile saline water in the unsaturated zone. Water Resources Research, 1988, 24, 1638-1644.	4.2	23
20	Linear instability of an anticyclonic vortex in a twoâ€layer ocean. Journal of Geophysical Research, 1990, 95, 18075-18079.	3.3	23
21	The Ekman spiral for piecewise-uniform viscosity. Ocean Science, 2020, 16, 1089-1093.	3.4	23
22	Chaotic Trajectories of Tidally Perturbed Inertial Oscillations. Journals of the Atmospheric Sciences, 1992, 49, 2306-2318.	1.7	22
23	Planetary (Rossby) waves and inertia–gravity (Poincaré) waves in a barotropic ocean over aÂsphere. Journal of Fluid Mechanics, 2013, 726, 123-136.	3.4	21
24	Trapped waves on the mid-latitude -plane. Tellus, Series A: Dynamic Meteorology and Oceanography, 2008, 60, 742-748.	1.7	19
25	Chaotic Hamiltonian dynamics of particle's horizontal motion in the atmosphere. Physica D: Nonlinear Phenomena, 1997, 106, 389-431.	2.8	18
26	Zonally propagating wave solutions of Laplace Tidal Equations in a baroclinic ocean of an aqua-planet. Tellus, Series A: Dynamic Meteorology and Oceanography, 2022, 63, 348.	1.7	18
27	Analytical Considerations of Lagrangian Cross-Equatorial Flow. Journals of the Atmospheric Sciences, 1999, 56, 1229-1237.	1.7	17
28	On the Mixing Enhancement in a Meandering Jet Due to the Interaction with an Eddy. Journal of Physical Oceanography, 1994, 24, 2418-2423.	1.7	16
29	A QBO Cookbook: Sensitivity of the Quasiâ€Biennial Oscillation to Resolution, Resolved Waves, and Parameterized Gravity Waves. Journal of Advances in Modeling Earth Systems, 2022, 14, e2021MS002568.	3.8	16
30	Microscale haline convectionâ€A proposed mechanism for transport and mixing at the water table region. Water Resources Research, 1988, 24, 1111-1117.	4.2	15
31	Are There Oceanographic Explanations for the Israelites'Crossing of the Red Sea?. Bulletin of the American Meteorological Society, 1992, 73, 305-314.	3.3	15
32	Linear Instability of Barotropic Submesoscale Coherent Vortices Observed in the Ocean. Journal of Physical Oceanography, 1999, 29, 1442-1452.	1.7	15
33	Linear Waves in Midlatitudes on the Rotating Spherical Earth. Journal of Physical Oceanography, 2009, 39, 3204-3215.	1.7	15
34	Classification of eastward propagating waves on the spherical Earth. Quarterly Journal of the Royal Meteorological Society, 2017, 143, 1554-1564.	2.7	14
35	The Divergence Fields Associated with Time-Dependent Jet Streams. Journals of the Atmospheric Sciences, 1999, 56, 1843-1857.	1.7	13
36	The Reddy maker. Deep-Sea Research Part I: Oceanographic Research Papers, 2002, 49, 1531-1549.	1.4	13

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37	Barotropic Instability of a Zonal Jet: From Nondivergent Perturbations on the Î ² Plane to Divergent Perturbations on a Sphere. Journal of Physical Oceanography, 2006, 36, 2271-2282.	1.7	13
38	The deflection angle between a wind-forced surface current and the overlying wind in an ocean with vertically varying eddy viscosity. Physics of Fluids, 2020, 32, .	4.0	13
39	Reconstructing balloon trajectories in the tropical stratosphere with a hybrid model using analysed fields. Quarterly Journal of the Royal Meteorological Society, 2001, 127, 975-988.	2.7	12
40	The mechanics of inertial motion on the earth and on a rotating sphere. Physica D: Nonlinear Phenomena, 2001, 160, 29-53.	2.8	11
41	The zonal drift associated with time-dependent particle motion on the earth. Quarterly Journal of the Royal Meteorological Society, 2001, 127, 2435-2450.	2.7	11
42	Global Circulation in an Axially Symmetric Shallow-Water Model, Forced by Off-Equatorial Differential Heating. Journals of the Atmospheric Sciences, 2010, 67, 1275-1286.	1.7	11
43	A quantitative test case for globalâ€scale dynamical cores based on analytic wave solutions of the shallowâ€water equations. Quarterly Journal of the Royal Meteorological Society, 2016, 142, 2705-2714.	2.7	11
44	Why are the meanders of the North Atlantic Current stable and stationary?. Geophysical Research Letters, 2000, 27, 1029-1032.	4.0	10
45	Windâ€Based Estimations of Ocean Surface Currents From Massive Clusters of Drifters in the Gulf of Mexico. Journal of Geophysical Research: Oceans, 2019, 124, 5844-5869.	2.6	10
46	A Practical, Hybrid Model for Predicting the Trajectories of Near-Surface Ocean Drifters. Journal of Atmospheric and Oceanic Technology, 2004, 21, 1246-1258.	1.3	9
47	Linear waves in a symmetric equatorial channel. Quarterly Journal of the Royal Meteorological Society, 2007, 133, 571-577.	2.7	9
48	Global Circulation in an Axially Symmetric Shallow Water Model Forced by Equinoctial Differential Heating. Journals of the Atmospheric Sciences, 2009, 66, 1418-1433.	1.7	9
49	Why is the stability of the Agulhas Current geographically biâ€modal?. Geophysical Research Letters, 2009, 36, .	4.0	9
50	Laboratory experiments and a non-harmonic theory for topographic Rossby waves over a linearly sloping bottom on the <i>f</i> -plane. Journal of Fluid Mechanics, 2010, 645, 479-496.	3.4	9
51	The mixed Rossby–gravity wave on the spherical Earth. Quarterly Journal of the Royal Meteorological Society, 2018, 144, 1820-1830.	2.7	9
52	Nonlinear waves on a coupled density front. Geophysical and Astrophysical Fluid Dynamics, 1986, 37, 171-191.	1.2	8
53	Linear Instability of a Zonal Jet on anfPlane*. Journal of Physical Oceanography, 1997, 27, 2361-2369.	1.7	8
54	The transport in the Ekman surface layer on the spherical Earth. Journal of Marine Research, 2002, 60, 47-72.	0.3	8

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55	The eigenvalue equations of equatorial waves on a sphere. Tellus, Series A: Dynamic Meteorology and Oceanography, 2022, 62, 62.	1.7	8
56	An invariant theory of the linearized shallow water equations with rotation and its application to a sphere and a plane. Dynamics of Atmospheres and Oceans, 2011, 51, 26-44.	1.8	8
57	Linear instability of warm core, constant potential vorticity, eddies in a twoâ€layer ocean. Quarterly Journal of the Royal Meteorological Society, 2015, 141, 1884-1893.	2.7	8
58	A model equation for nonlinear wavelength selection and amplitude evolution of frontal waves. Journal of Nonlinear Science, 1994, 4, 471-496.	2.1	6
59	From the Tropics to the Poles in Forty Days. Bulletin of the American Meteorological Society, 1997, 78, 2779-2784.	3.3	6
60	Is There a Paleolimnological Explanation for â€~Walking on Water' in the Sea of Galilee?. Journal of Paleolimnology, 2006, 35, 417-439.	1.6	6
61	Inertial particle dynamics on the rotating Earth. , 2007, , 119-135.		6
62	Numerical simulation of harmonic, and trapped, Rossby waves in a channel on the midlatitude <i>β</i> â€plane. Quarterly Journal of the Royal Meteorological Society, 2016, 142, 2292-2299.	2.7	6
63	Linear instabilities of a two-layer geostrophic surface front near a wall. Journal of Marine Research, 2004, 62, 639-662.	0.3	6
64	Abyssal gyres. Geophysical and Astrophysical Fluid Dynamics, 1991, 58, 173-196.	1.2	5
65	Testing the historic tracking of climate models. International Journal of Forecasting, 2016, 32, 1234-1246.	6.5	5
66	The Matsuno baroclinic wave test case. Geoscientific Model Development, 2019, 12, 2181-2193.	3.6	5
67	Barotropic modes, baroclinic modes and equivalent depths in the atmosphere. Quarterly Journal of the Royal Meteorological Society, 2020, 146, 2096-2115.	2.7	5
68	Inertial particle approximation to solutions of the ShallowWater Equations on the rotating spherical Earth. Tellus, Series A: Dynamic Meteorology and Oceanography, 2006, 58, 280-292.	1.7	4
69	Mixing processes in the deep water of the Gulf of Elat (Aqaba): Evidence from measurements and modeling of the triple isotopic composition of dissolved oxygen. Limnology and Oceanography, 2013, 58, 1373-1386.	3.1	4
70	On the stability of outcropping eddies in a constantâ€PV ocean. Quarterly Journal of the Royal Meteorological Society, 2016, 142, 1920-1928.	2.7	4
71	An accurate procedure for estimating the phase speed of ocean waves from observations by satellite borne altimeters. Acta Astronautica, 2017, 137, 504-511.	3.2	4
72	Amplitude–Wavelength Relations of Nonlinear Frontal Waves on Coastal Currents. Journal of Physical Oceanography, 1988, 18, 753-760.	1.7	3

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73	Improving the calculation of particle trajectories in the extra-tropical troposphere using standard NCEP fields. Atmospheric Environment, 2002, 36, 483-490.	4.1	3
74	Higherâ€order corrections for Rossby waves in a zonal channel on the βâ€plane. Quarterly Journal of the Royal Meteorological Society, 2007, 133, 1893-1898.	2.7	3
75	On the role of viscosity in ideal Hadley circulation models. Geophysical Research Letters, 2010, 37, .	4.0	3
76	Comments on "On the Steadiness of Separating Meandering Currents― Journal of Physical Oceanography, 2012, 42, 1366-1370.	1.7	3
77	Linear waves on the spheroidal Earth. Dynamics of Atmospheres and Oceans, 2012, 57, 17-26.	1.8	3
78	A Hermite-based Shallow Water solver for a thin "ocean―over a rotating sphere. Journal of Computational Physics, 2014, 269, 80-97.	3.8	3
79	Linear instability of constant PV coldâ€core eddies in a twoâ€layer ocean. Quarterly Journal of the Royal Meteorological Society, 2015, 141, 2886-2897.	2.7	3
80	Trapped planetary (Rossby) waves observed in the Indian Ocean by satellite borne altimeters. Ocean Science, 2017, 13, 483-494.	3.4	3
81	Recent advances in linear wave theory on the spherical earth. Deep-Sea Research Part II: Topical Studies in Oceanography, 2019, 160, 63-67.	1.4	3
82	On the role of domain aspect ratio in the westward intensification of wind-driven surface ocean circulation. Ocean Science, 2021, 17, 351-363.	3.4	3
83	Planetary, inertia–gravity and Kelvin waves on the <i>f</i> â€plane and βâ€plane in the presence of a uniform zonal flow. Quarterly Journal of the Royal Meteorological Society, 2021, 147, 2935-2952.	2.7	3
84	A Lagrangian theory of geostrophic adjustment for zonally invariant flows on a rotating spherical earth. Physics of Fluids, 2021, 33, 066602.	4.0	3
85	Non-Divergent 2D Vorticity Dynamics and the Shallow Water Equations on the Rotating Earth. , 2008, , 177-187.		3
86	Wind Set-down Relaxation on a Sloping Beach. Journal of Computational Physics, 1997, 138, 644-664.	3.8	2
87	On spurious instabilities on the β-planes with no mean flows. Annales Geophysicae, 2010, 28, 1737-1739.	1.6	2
88	Application of laboratory experiments to assess the error introduced by the imposition of "wall― boundary conditions in shelf models. Ocean Modelling, 2012, 41, 35-41.	2.4	2
89	A Gegenbauer-based Shallow Water solver for a thick "ocean―over a rotating sphere. Journal of Computational Physics, 2016, 304, 487-505.	3.8	2
90	Barotropic instability of a zonal jet on the sphere: from non-divergence through quasi-geostrophy to shallow water. Geophysical and Astrophysical Fluid Dynamics, 2021, 115, 15-34.	1.2	2

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91	Lagrangian trajectories at the outflow of tropical cyclones. Quarterly Journal of the Royal Meteorological Society, 2021, 147, 58-73.	2.7	2
92	Long, nonlinear oscillations of density fronts. Geophysical and Astrophysical Fluid Dynamics, 1988, 42, 175-186.	1.2	1
93	The mechanics of eddy transport from one hemisphere to the other. Quarterly Journal of the Royal Meteorological Society, 2003, 129, 2011-2025.	2.7	1
94	On the dominance of changes in planetary angular momentum in large scale extraâ€ŧropical flows. Geophysical Research Letters, 2007, 34, .	4.0	1
95	Divergent versus Nondivergent Instabilities of Piecewise Uniform Shear Flows on the f Plane. Journal of Physical Oceanography, 2009, 39, 1685-1699.	1.7	1
96	The cave resonator and the Parker Turner cave collapse problem. Safety Science, 2010, 48, 607-614.	4.9	1
97	On the meridional structure of extra-tropical Rossby waves. Tellus, Series A: Dynamic Meteorology and Oceanography, 2011, 63, 817-827.	1.7	1
98	Constraining Evaporation Rates Based on Largeâ€6cale Sea Surface Transects of Salinity or Isotopic Compositions. Journal of Geophysical Research: Oceans, 2019, 124, 1322-1330.	2.6	1
99	Geostrophic adjustment on the f-plane: Symmetric versus anti-symmetric initial height distributions. Physics of Fluids, 2021, 33, 076607.	4.0	1
100	Kelvin Waves on the Rotating Spherical Earth. SpringerBriefs in Earth System Sciences, 2015, , 69-76.	0.1	1
101	Waves on the equatorial β-plane in the presence of a uniform zonal flow: Beyond the Doppler shift. Physics of Fluids, 2022, 34, .	4.0	1
102	A note on the use of zero potential vorticity models. Geophysical and Astrophysical Fluid Dynamics, 1990, 51, 27-34.	1.2	0
103	Noise-Induced Interhemispheric Particle Transport—Stochastic Resonance in a Hamiltonian System. Journals of the Atmospheric Sciences, 2000, 57, 150-157.	1.7	0
104	Was there ice along the shore of the Sea of Galilee during the last 12,000?—Reply to a comment by Prange etÂal. (2007) and a comment by Friedman (2007). Journal of Paleolimnology, 2007, 38, 597-600.	1.6	0
105	Commonly used methods fail to detect known propagation speeds of simulated signals from time–longitude (Hovmöller) diagrams. Ocean Science, 2019, 15, 1593-1599.	3.4	0
106	Linear instability of uniform shear zonal currents on the β-plane. Journal of Marine Research, 2011, 69, 693-704.	0.3	0
107	Waves in a Channel on the Equatorial Î ² -Plane. SpringerBriefs in Earth System Sciences, 2015, , 29-34.	0.1	Ο