Jonathan D Nash

List of Publications by Year
in descending order

Source: https://exaly.com/author-pdf/9098942/publications.pdf

Version: 2024-02-01

108	8,040	36303	49909
papers	citations	51 h-index	87 g-index

110	110	110	4525
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	New technological frontiers in ocean mixing. , 2022, , 345-361.		4
2	Subglacial Discharge Reflux and Buoyancy Forcing Drive Seasonality in a Silled Glacial Fjord. Journal of Geophysical Research: Oceans, 2022, 127, .	2.6	11
3	Mechanisms of Lateral Spreading in a Near-Field Buoyant River Plume Entering a Fjord. Frontiers in Marine Science, 2021, 8, .	2.5	0
4	Abyssal Heat Budget in the Southwest Pacific Basin. Journal of Physical Oceanography, 2021, , .	1.7	3
5	Ocean front detection and tracking using a team of heterogeneous marine vehicles. Journal of Field Robotics, 2021, 38, 854-881.	6.0	16
6	Meltwater Intrusions Reveal Mechanisms for Rapid Submarine Melt at a Tidewater Glacier. Geophysical Research Letters, 2020, 47, e2019GL085335.	4.0	44
7	Formation, flow and break-up of ephemeral ice mÃ©lange at LeConte Glacier and Bay, Alaska. Journal of Glaciology, 2020, 66, 577-590.	2.2	11
8	Frequency Shift of Near-Inertial Waves in the South China Sea. Journal of Physical Oceanography, 2020, 50, 1121-1135.	1.7	20
9	How Spice is Stirred in the Bay of Bengal. Journal of Physical Oceanography, 2020, 50, 2669-2688.	1.7	12
10	Topographic Form Drag on Tides and Low-Frequency Flow: Observations of Nonlinear Lee Waves over a Tall Submarine Ridge near Palau. Journal of Physical Oceanography, 2020, 50, 1489-1507.	1.7	18
11	The role of turbulence and internal waves in the structure and evolution of a near-field river plume. Ocean Science, 2020, 16, 799-815.	3.4	9
12	Multi-platform observations of small-scale lateral mixed layer variability in the northern Bay of Bengal. Deep-Sea Research Part II: Topical Studies in Oceanography, 2019, 168, 104629.	1.4	7
13	On the Future of Argo: A Global, Full-Depth, Multi-Disciplinary Array. Frontiers in Marine Science, 2019, 6, .	2.5	235
14	Direct observations of submarine melt and subsurface geometry at a tidewater glacier. Science, 2019, 365, 369-374.	12.6	77
15	Tracking icebergs with time-lapse photography and sparse optical flow, LeConte Bay, Alaska, 2016â€“2017. Journal of Glaciology, 2019, 65, 195-211.	2.2	15
16	Distinct Frontal Ablation Processes Drive Heterogeneous Submarine Terminus Morphology. Geophysical Research Letters, 2019, 46, 12083-12091.	4.0	18
17	Self-organized criticality in geophysical turbulence. Scientific Reports, 2019, 9, 3747.	3.3	48
18	Energy and Momentum Lost to Wake Eddies and Lee Waves Generated by the North Equatorial Current and Tidal Flows at Peleliu, Palau. Oceanography, 2019, 32, 110-125.	1.0	24

#	Article	IF	Citations
19	Eddies, Topography, and the Abyssal Flow by the Kyushu-Palau Ridge Near Velasco Reef. Oceanography, 2019, 32, 46-55.	1.0	10
20	Observations of the Tasman Sea Internal Tide Beam. Journal of Physical Oceanography, 2018, 48, 1283-1297.	1.7	15
21	Submesoscale Processes at Shallow Salinity Fronts in the Bay of Bengal: Observations during the Winter Monsoon. Journal of Physical Oceanography, 2018, 48, 479-509.	1.7	42
22	Measuring Ocean Turbulence. Springer Oceanography, 2018, , 99-122.	0.3	3
23	Geometric Controls on Tidewater Glacier Retreat in Central Western Greenland. Journal of Geophysical Research F: Earth Surface, 2018, 123, 2024-2038.	2.8	86
24	Reconciling Drivers of Seasonal Terminus Advance and Retreat at 13 Central West Greenland Tidewater Glaciers. Journal of Geophysical Research F: Earth Surface, 2018, 123, 1590-1607.	2.8	39
25	Subannual and Seasonal Variability of Atlanticâ€Origin Waters in Two Adjacent West Greenland Fjords. Journal of Geophysical Research: Oceans, 2018, 123, 6670-6687.	2.6	14
26	Inland thinning on the Greenland ice sheet controlled by outlet glacier geometry. Nature Geoscience, 2017, 10, 366-369.	12.9	74
27	Internal Tide Convergence and Mixing in a Submarine Canyon. Journal of Physical Oceanography, 2017, 47, 303-322.	1.7	52
28	Nearâ€glacier surveying of a subglacial discharge plume: Implications for plume parameterizations. Geophysical Research Letters, 2017, 44, 6886-6894.	4.0	63
29	Climate Process Team on Internal Waveâ€“Driven Ocean Mixing. Bulletin of the American Meteorological Society, 2017, 98, 2429-2454.	3.3	235
30	Subglacial dischargeâ€driven renewal of tidewater glacier fjords. Journal of Geophysical Research: Oceans, 2017, 122, 6611-6629.	2.6	55
31	The Influence of Subinertial Internal Tides on Near-Topographic Turbulence at the Mendocino Ridge: Observations and Modeling. Journal of Physical Oceanography, 2017, 47, 2139-2154.	1.7	25
32	Autonomous CTD Profiling from the Robotic Oceanographic Surface Sampler. Oceanography, 2017, 30, 110-112.	1.0	12
33	Ocean Turbulence and Mixing Around Sri Lanka and in Adjacent Waters of the Northern Bay of Bengal. Oceanography, 2016, 29, 170-179.	1.0	30
34	A Tale of Two Spicy Seas. Oceanography, 2016, 29, 50-61.	1.0	35
35	The Interplay Between Submesoscale Instabilities and Turbulence in the Surface Layer of the Bay of Bengal. Oceanography, 2016, 29, 146-157.	1.0	39
36	Adrift Upon a Salinity-Stratified Sea: A View of Upper-Ocean Processes in the Bay of Bengal During the Southwest Monsoon. Oceanography, 2016, 29, 134-145.	1.0	48

#	Article	IF	Citations
37	Contrasts in the response of adjacent fjords and glaciers to ice-sheet surface melt in West Greenland. Annals of Glaciology, 2016, 57, 25-38.	1.4	46
38	The impact of glacier geometry on meltwater plume structure and submarine melt in Greenland fjords. Geophysical Research Letters, 2016, 43, 9739-9748.	4.0	97
39	Reflection of Linear Internal Tides from Realistic Topography: The Tasman Continental Slope. Journal of Physical Oceanography, 2016, 46, 3321-3337.	1.7	39
40	Controls on Turbulent Mixing in a Strongly Stratified and Sheared Tidal River Plume. Journal of Physical Oceanography, 2016, 46, 2373-2388.	1.7	17
41	ASIRI: An Oceanâ€“Atmosphere Initiative for Bay of Bengal. Bulletin of the American Meteorological Society, 2016, 97, 1859-1884.	3.3	69
42	Tidally Driven Processes Leading to Near-Field Turbulence in a Channel at the Crest of the Mendocino Escarpment. Journal of Physical Oceanography, 2016, 46, 1137-1155.	1.7	29
43	Near-Inertial Internal Gravity Waves in the Ocean. Annual Review of Marine Science, 2016, 8, 95-123.	11.6	277
44	Distributed subglacial discharge drives significant submarine melt at a Greenland tidewater glacier. Geophysical Research Letters, 2015, 42, 9328-9336.	4.0	140
45	The LatMix Summer Campaign: Submesoscale Stirring in the Upper Ocean. Bulletin of the American Meteorological Society, 2015, 96, 1257-1279.	3.3	88
46	The formation and fate of internal waves in the South China Sea. Nature, 2015, 521, 65-69.	27.8	487
47	Structure and Variability of Internal Tides in Luzon Strait. Journal of Physical Oceanography, 2015, 45, 1574-1594.	1.7	48
48	Modeling Turbulent Subglacial Meltwater Plumes: Implications for Fjord-Scale Buoyancy-Driven Circulation. Journal of Physical Oceanography, 2015, 45, 2169-2185.	1.7	98
49	Breaking Internal Tides Keep the Ocean in Balance. Eos, 2015, 96, .	0.1	35
50	Three-Dimensional Double-Ridge Internal Tide Resonance in Luzon Strait. Journal of Physical Oceanography, 2014, 44, 850-869.	1.7	92
51	Global Patterns of Diapycnal Mixing from Measurements of the Turbulent Dissipation Rate. Journal of Physical Oceanography, 2014, 44, 1854-1872.	1.7	392
52	Stratification and mixing regimes in biological thin layers over the Mid-Atlantic Bight. Limnology and Oceanography, 2014, 59, 1349-1363.	3.1	10
53	Mixing to Monsoons: Air-Sea Interactions in the Bay of Bengal. Eos, 2014, 95, 269-270.	0.1	33
54	Seasonal sea surface cooling in the equatorial Pacific cold tongue controlled by ocean mixing. Nature, 2013, 500, 64-67.	27.8	104

#	Article	IF	Citations
55	Internal Bores and Breaking Internal Tides on the Oregon Continental Slope. Journal of Physical Oceanography, 2013, 43, 120-139.	1.7	36
56	A Coupled Model for Laplace's Tidal Equations in a Fluid with One Horizontal Dimension and Variable Depth. Journal of Physical Oceanography, 2013, 43, 1780-1797.	1.7	32
57	Measurement of Tidal Form Drag Using Seafloor Pressure Sensors. Journal of Physical Oceanography, 2013, 43, 1150-1172.	1.7	22
58	The geography of semidiurnal modeâ€1 internalâ€tide energy loss. Geophysical Research Letters, 2013, 40, 4689-4693.	4.0	67
59	The Unpredictable Nature of Internal Tides on Continental Shelves. Journal of Physical Oceanography, 2012, 42, 1981-2000.	1.7	91
60	The Cascade of Tidal Energy from Low to High Modes on a Continental Slope. Journal of Physical Oceanography, 2012, 42, 1217-1232.	1.7	59
61	Turbulence and highâ€frequency variability in a deep gravity current outflow. Geophysical Research Letters, 2012, 39, .	4.0	13
62	Are Any Coastal Internal Tides Predictable?. Oceanography, 2012, 25, 80-95.	1.0	83
63	The Direct Breaking of Internal Waves at Steep Topography. Oceanography, 2012, 25, 150-159.	1.0	28
64	The role of turbulence stress divergence in decelerating a river plume. Journal of Geophysical Research, 2012, 117, .	3.3	34
65	Rapid sediment removal from the Columbia River plume near field. Continental Shelf Research, 2012, 35, 16-28.	1.8	20
66	Nonlinear internal waves over New Jersey's continental shelf. Journal of Geophysical Research, 2011, 116, .	3.3	60
67	Reply to comment by T. Gerkema on â€œInternal-tide energy over topographyâ€. Journal of Geophysical Research, 2011, 116, .	3.3	2
68	Topographic control on the nascent Mediterranean outflow. Geo-Marine Letters, 2011, 31, 301-314.	1.1	10
69	Energy Flux and Dissipation in Luzon Strait: Two Tales of Two Ridges. Journal of Physical Oceanography, 2011, 41, 2211-2222.	1.7	222
70	Narrowband Oscillations in the Upper Equatorial Ocean. Part II: Properties of Shear Instabilities. Journal of Physical Oceanography, 2011, 41, 412-428.	1.7	83
71	Observations of Internal Tides on the Oregon Continental Slope. Journal of Physical Oceanography, 2011, 41, 1772-1794.	1.7	55
72	Narrowband Oscillations in the Upper Equatorial Ocean. Part I: Interpretation as Shear Instabilities. Journal of Physical Oceanography, 2011, 41, 397-411.	1.7	50

#	Article	IF	Citations
73	Energy transformations and dissipation of nonlinear internal waves over New Jersey's continental shelf. Nonlinear Processes in Geophysics, 2010, 17, 345-360.	1.3	64
74	Mode 2 waves on the continental shelf: Ephemeral components of the nonlinear internal wavefield. Journal of Geophysical Research, 2010, 115, .	3.3	70
75	Internalâ€tide energy over topography. Journal of Geophysical Research, 2010, 115, .	3.3	61
76	Structure and dynamics of the Columbia River tidal plume front. Journal of Geophysical Research, 2010, 115, .	3.3	84
77	Vertical heat flux and lateral mass transport in nonlinear internal waves. Geophysical Research Letters, 2010, 37, .	4.0	51
78	Internalâ€tide generation and destruction by shoaling internal tides. Geophysical Research Letters, 2010, 37, .	4.0	110
79	River Influences on Shelf Ecosystems: Introduction and synthesis. Journal of Geophysical Research, 2010, 115, .	3.3	135
80	Observations of Polarity Reversal in Shoaling Nonlinear Internal Waves. Journal of Physical Oceanography, 2009, 39, 691-701.	1.7	91
81	Mixing Measurements on an Equatorial Ocean Mooring. Journal of Atmospheric and Oceanic Technology, 2009, 26, 317-336.	1.3	95
82	Sea surface cooling at the Equator by subsurface mixing in tropical instability waves. Nature Geoscience, 2009, 2, 761-765.	12.9	111
83	Particle resuspension in the Columbia River plume near field. Journal of Geophysical Research, 2009, 114, .	3.3	21
84	Structure and composition of a strongly stratified, tidally pulsed river plume. Journal of Geophysical Research, 2009, 114, .	3.3	58
85	Seafloor Pressure Measurements of Nonlinear Internal Waves. Journal of Physical Oceanography, 2008, 38, 481-491.	1.7	38
86	Small-Scale Processes in the Coastal Ocean. Oceanography, 2008, 21, 22-33.	1.0	32
87	Buoyant Surface Discharges into Water Bodies. I: Flow Classification and Prediction Methodology. Journal of Hydraulic Engineering, 2007, 133, 1010-1020.	1.5	62
88	Hotspots of deep ocean mixing on the Oregon continental slope. Geophysical Research Letters, 2007, 34, .	4.0	103
89	Diagnosing a partly standing internal wave in Mamala Bay, Oahu. Geophysical Research Letters, 2007, 34, .	4.0	42
90	Energy Transport by Nonlinear Internal Waves. Journal of Physical Oceanography, 2007, 37, 1968-1988.	1.7	144

#	Article	IF	Citations
91	Shallow Water '06: A Joint Acoustic Propagation/Nonlinear Internal Wave Physics Experiment. Oceanography, 2007, 20, 156-167.	1.0	151
92	An Estimate of Tidal Energy Lost to Turbulence at the Hawaiian Ridge. Journal of Physical Oceanography, 2006, 36, 1148-1164.	1.7	187
93	Internal Tides and Turbulence along the 3000-m Isobath of the Hawaiian Ridge. Journal of Physical Oceanography, 2006, 36, 1165-1183.	1.7	91
94	Structure of the Baroclinic Tide Generated at Kaena Ridge, Hawaii. Journal of Physical Oceanography, 2006, 36, 1123-1135.	1.7	120
95	River plumes as a source of large-amplitude internal waves in the coastal ocean. Nature, 2005, 437, 400-403.	27.8	229
96	Estimating Internal Wave Energy Fluxes in the Ocean. Journal of Atmospheric and Oceanic Technology, 2005, 22, 1551-1570.	1.3	220
97	Differential Diffusion in Breaking Kelvinâ€“Helmholtz Billows. Journal of Physical Oceanography, 2005, 35, 1004-1022.	1.7	68
98	Internal Tide Reflection and Turbulent Mixing on the Continental Slope. Journal of Physical Oceanography, 2004, 34, 1117-1134.	1.7	223
99	Pollutant Transport and Mixing Zone Simulation of Sediment Density Currents. Journal of Hydraulic Engineering, 2004, 130, 349-359.	1.5	25
100	An examination of the radiative and dissipative properties of deep ocean internal tides. Deep-Sea Research Part II: Topical Studies in Oceanography, 2004, 51, 3029-3042.	1.4	49
101	From Tides to Mixing Along the Hawaiian Ridge. Science, 2003, 301, 355-357.	12.6	312
102	Observations of Boundary Mixing over the Continental Slope. Journal of Physical Oceanography, 2002, 32, 2113-2130.	1.7	145
103	Microstructure Estimates of Turbulent Salinity Flux and the Dissipation Spectrum of Salinity. Journal of Physical Oceanography, 2002, 32, 2312-2333.	1.7	79
104	Internal hydraulic flows on the continental shelf: High drag states over a small bank. Journal of Geophysical Research, 2001, 106, 4593-4611.	3.3	129
105	Topographically Induced Drag and Mixing at a Small Bank on the Continental Shelf. Journal of Physical Oceanography, 2000, 30, 2049-2054.	1.7	80
106	Buoyant surface discharges into unsteady ambient flows. Dynamics of Atmospheres and Oceans, 1996, 24, 75-84.	1.8	18
107	Large scale planar laser induced fluorescence in turbulent density-stratified flows. Experiments in Fluids, 1995, 19, 297-304.	2.4	22
108	Local winds and encroaching currents drive summertime subsurface blooms over a narrow shelf. Limnology and Oceanography, 0, , .	3.1	0