

Mark Holzer

List of Publications by Citations

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The third column is the impact factor (IF) of the journal, and the fourth column is the number of citations of the article.

63
papers

2,080
citations

26
h-index

44
g-index

66
ext. papers

2,327
ext. citations

5.4
avg, IF

5.2
L-index

#	Paper	IF	Citations
63	Turbulent mixing of a passive scalar. <i>Physics of Fluids</i> , 1994 , 6, 1820-1837	4.4	237
62	Transit-Time and Tracer-Age Distributions in Geophysical Flows. <i>Journals of the Atmospheric Sciences</i> , 2000 , 57, 3539-3558	2.1	160
61	Recent increase in oceanic carbon uptake driven by weaker upper-ocean overturning. <i>Nature</i> , 2017 , 542, 215-218	50.4	133
60	Recent changes in the ventilation of the southern oceans. <i>Science</i> , 2013 , 339, 568-70	33.3	104
59	Ventilation of the deep ocean constrained with tracer observations and implications for radiocarbon estimates of ideal mean age. <i>Earth and Planetary Science Letters</i> , 2012 , 325-326, 116-125	5.3	98
58	Three classes of one-dimensional, two-tile Penrose tilings and the Fibonacci Kronig-Penney model as a generic case. <i>Physical Review B</i> , 1988 , 38, 1709-1720	3.3	89
57	Three-dimensional transport and concentration of SF6. A model intercomparison study (TransCom 2). <i>Tellus, Series B: Chemical and Physical Meteorology</i> , 1999 , 51, 266-297	3.3	88
56	Logarithmically slow domain growth in nonrandomly frustrated systems: Ising models with competing interactions. <i>Physical Review B</i> , 1992 , 46, 11376-11404	3.3	66
55	Southern Ocean nutrient trapping and the efficiency of the biological pump. <i>Journal of Geophysical Research: Oceans</i> , 2013 , 118, 2547-2564	3.3	58
54	Nonlinear dynamics of localization in a class of one-dimensional quasicrystals. <i>Physical Review B</i> , 1988 , 38, 5756-5759	3.3	55
53	Three-dimensional transport and concentration of SF6 A model intercomparison study (TransCom 2). <i>Tellus, Series B: Chemical and Physical Meteorology</i> , 1999 , 51, 266-297	3.3	52
52	The Ocean's Memory of the Atmosphere: Residence-Time and Ventilation-Rate Distributions of Water Masses. <i>Journal of Physical Oceanography</i> , 2006 , 36, 1439-1456	2.4	50
51	The Southern Ocean silicon trap: Data-constrained estimates of regenerated silicic acid, trapping efficiencies, and global transport paths. <i>Journal of Geophysical Research: Oceans</i> , 2014 , 119, 313-331	3.3	46
50	Springtime trans-Pacific atmospheric transport from east Asia: A transit-time probability density function approach. <i>Journal of Geophysical Research</i> , 2003 , 108,		45
49	Seasonality and weather-driven variability of transpacific transport. <i>Journal of Geophysical Research</i> , 2005 , 110,		42
48	Skewed, exponential pressure distributions from Gaussian velocities. <i>Physics of Fluids A, Fluid Dynamics</i> , 1993 , 5, 2525-2532		36
47	The diffusive ocean conveyor. <i>Geophysical Research Letters</i> , 2006 , 33,	4.9	35

46	Where and how long ago was water in the western North Atlantic ventilated? Maximum entropy inversions of bottle data from WOCE line A20. <i>Journal of Geophysical Research</i> , 2010 , 115,		32
45	Equilibrium crystal shapes and correlation lengths: A general exact result in two dimensions. <i>Physical Review Letters</i> , 1990 , 64, 653-656	7.4	31
44	On transit-time distributions in unsteady circulation models. <i>Ocean Modelling</i> , 2008 , 21, 35-45	3	30
43	Improved constraints on transit time distributions from argon 39: A maximum entropy approach. <i>Journal of Geophysical Research</i> , 2010 , 115,		29
42	Analysis of Passive Tracer Transport as Modeled by an Atmospheric General Circulation Model. <i>Journal of Climate</i> , 1999 , 12, 1659-1684	4.4	29
41	Radiocarbon and Helium Isotope Constraints on Deep Ocean Ventilation and Mantle-3He Sources. <i>Journal of Geophysical Research: Oceans</i> , 2019 , 124, 3036-3057	3.3	28
40	Simulated Changes in Atmospheric Transport Climate. <i>Journal of Climate</i> , 2001 , 14, 4398-4420	4.4	28
39	Advective-diffusive mass flux and implications for stratosphere-troposphere exchange. <i>Geophysical Research Letters</i> , 2003 , 30, n/a-n/a	4.9	27
38	Optimal Spectral Topography and Its Effect on Model Climate. <i>Journal of Climate</i> , 1996 , 9, 2443-2463	4.4	27
37	Ventilation Rates Estimated from Tracers in the Presence of Mixing. <i>Journal of Physical Oceanography</i> , 2007 , 37, 2599-2611	2.4	26
36	Air-mass origin as a diagnostic of tropospheric transport. <i>Journal of Geophysical Research D: Atmospheres</i> , 2013 , 118, 1459-1470	4.4	25
35	The path-density distribution of oceanic surface-to-surface transport. <i>Journal of Geophysical Research</i> , 2008 , 113,		25
34	Low-temperature expansions for the step free energy and facet shape of the simple-cubic Ising model. <i>Physical Review B</i> , 1989 , 40, 11044-11058	3.3	22
33	Objective estimates of mantle 3He in the ocean and implications for constraining the deep ocean circulation. <i>Earth and Planetary Science Letters</i> , 2017 , 458, 305-314	5.3	21
32	Global teleconnections in the oceanic phosphorus cycle: Patterns, paths, and timescales. <i>Journal of Geophysical Research: Oceans</i> , 2013 , 118, 1775-1796	3.3	21
31	Simple models of non-Gaussian statistics for a turbulently advected passive scalar. <i>Physical Review E</i> , 1993 , 47, 202-219	2.4	21
30	Low-level transpacific transport. <i>Journal of Geophysical Research</i> , 2007 , 112,		18
29	Asymmetric Geopotential Height Fluctuations from Symmetric Winds. <i>Journals of the Atmospheric Sciences</i> , 1996 , 53, 1361-1379	2.1	18

28	Exact equilibrium crystal shapes in two dimensions for free-fermion models. <i>Physical Review B</i> , 1990 , 42, 10570-10582	3.3	18
27	Interhemispheric transit time distributions and path-dependent lifetimes constrained by measurements of SF6, CFCs, and CFC replacements. <i>Geophysical Research Letters</i> , 2015 , 42, 4581-4589	4.9	17
26	Airmass Origin in the Arctic. Part I: Seasonality. <i>Journal of Climate</i> , 2015 , 28, 4997-5014	4.4	15
25	Flux distributions as robust diagnostics of stratosphere-troposphere exchange. <i>Journal of Geophysical Research</i> , 2012 , 117, n/a-n/a		15
24	Inverse-model estimates of the ocean's coupled phosphorus, silicon, and iron cycles. <i>Biogeosciences</i> , 2017 , 14, 4125-4159	4.6	14
23	Controls on the silicon isotope distribution in the ocean: New diagnostics from a data-constrained model. <i>Global Biogeochemical Cycles</i> , 2015 , 29, 267-287	5.9	13
22	Constraints on the global marine iron cycle from a simple inverse model. <i>Journal of Geophysical Research G: Biogeosciences</i> , 2016 , 121, 28-51	3.7	12
21	Decadal changes in Southern Ocean ventilation inferred from deconvolutions of repeat hydrographies. <i>Geophysical Research Letters</i> , 2017 , 44, 5655-5664	4.9	11
20	The Path Density of Interhemispheric Surface-to-Surface Transport. Part II: Transport through the Troposphere and Stratosphere Diagnosed from NCEP Data. <i>Journals of the Atmospheric Sciences</i> , 2009 , 66, 2172-2189	2.1	11
19	The Path Density of Interhemispheric Surface-to-Surface Transport. Part I: Development of the Diagnostic and Illustration with an Analytic Model. <i>Journals of the Atmospheric Sciences</i> , 2009 , 66, 2159-2171	2.1	11
18	The plumbing of the global biological pump: Efficiency control through leaks, pathways, and time scales. <i>Journal of Geophysical Research: Oceans</i> , 2016 , 121, 6367-6388	3.3	10
17	Air-mass Origin in the Arctic. Part II: Response to Increases in Greenhouse Gases. <i>Journal of Climate</i> , 2015 , 28, 9105-9120	4.4	8
16	Tropospheric transport climate partitioned by surface origin and transit time. <i>Journal of Geophysical Research</i> , 2008 , 113,		8
15	Transport matrices from standard ocean-model output and quantifying circulation response to climate change. <i>Ocean Modelling</i> , 2019 , 135, 1-13	3	7
14	Ventilation of the Subtropical North Atlantic: Locations and Times of Last Ventilation Estimated Using Tracer Constraints From GEOTRACES Section GA03. <i>Journal of Geophysical Research: Oceans</i> , 2018 , 123, 2332-2352	3.3	6
13	Stratospheric mean residence time and mean age on the tropopause: Connections and implications for observational constraints. <i>Journal of Geophysical Research</i> , 2012 , 117, n/a-n/a		6
12	Multifractal wave functions on a class of one-dimensional quasicrystals: Exact $f(\alpha)$ curves and the limit of dilute quasiperiodic impurities. <i>Physical Review B</i> , 1991 , 44, 2085-2091	3.3	6
11	AWESOME OCIM: A simple, flexible, and powerful tool for modeling elemental cycling in the oceans. <i>Chemical Geology</i> , 2020 , 533, 119403	4.2	6

10	The age of iron and iron source attribution in the ocean. <i>Global Biogeochemical Cycles</i> , 2016 , 30, 1454-1474	3.4	6
9	The number of past and future regenerations of iron in the ocean and its intrinsic fertilization efficiency. <i>Biogeosciences</i> , 2018 , 15, 7177-7203	4.6	6
8	Seasonal ventilation of the stratosphere: Robust diagnostics from one-way flux distributions. <i>Journal of Geophysical Research D: Atmospheres</i> , 2014 , 119, 293-306	4.4	5
7	Diffusion controls the ventilation of a Pacific Shadow Zone above abyssal overturning. <i>Nature Communications</i> , 2021 , 12, 4348	17.4	5
6	Climate-Driven Changes in the Ocean's Ventilation Pathways and Time Scales Diagnosed From Transport Matrices. <i>Journal of Geophysical Research: Oceans</i> , 2020 , 125, e2020JC016414	3.3	2
5	A New Metric of the Biological Carbon Pump: Number of Pump Passages and Its Control on Atmospheric pCO ₂ . <i>Global Biogeochemical Cycles</i> , 2021 , 35, e2020GB006863	5.9	2
4	The Ocean's Global ³⁹ Ar Distribution Estimated With an Ocean Circulation Inverse Model. <i>Geophysical Research Letters</i> , 2019 , 46, 7491-7499	4.9	1
3	Lifetime dependent flux into the lowermost stratosphere for idealized trace gases of surface origin. <i>Journal of Geophysical Research D: Atmospheres</i> , 2013 , 118, 9367-9375	4.4	1
2	Decoupling the Effects of Transport and Chemical Loss on Tropospheric Composition: A Model Study of Path-Dependent Lifetimes. <i>Journal of Geophysical Research D: Atmospheres</i> , 2018 , 123, 2320-2334	4.4	1
1	Diatom Physiology Controls Silicic Acid Leakage in Response to Iron Fertilization. <i>Global Biogeochemical Cycles</i> , 2019 , 33, 1631-1653	5.9	