Rainer Bleck

List of Publications by Year
in descending order

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81 papers	7,558 citations	109137 35 h-index	69108 77 g-index
82 all docs	82 docs citations	82 times ranked	6474 citing authors

#	Article	IF	Citations
1	Future Climate Change Under SSP Emission Scenarios With GISSâ€E2.1. Journal of Advances in Modeling Earth Systems, 2022, 14, .	1.3	22
2	CMIP6 Historical Simulations (1850â€“2014) With GISSâ€E2.1. Journal of Advances in Modeling Earth Systems, 2021, 13, e2019MS002034.	1.3	49
3	GISSâ€E2.1: Configurations and Climatology. Journal of Advances in Modeling Earth Systems, 2020, 12, e2019MS002025.	1.3	234
4	The Subseasonal Experiment (SubX): A Multimodel Subseasonal Prediction Experiment. Bulletin of the American Meteorological Society, 2019, 100, 2043-2060.	1.7	153
5	Subseasonal Forecasting with an Icosahedral, Vertically Quasi-Lagrangian Coupled Model. Part II: Probabilistic and Deterministic Forecast Skill. Monthly Weather Review, 2018, 146, 1619-1639.	0.5	11
6	Subseasonal Forecasting with an Icosahedral, Vertically Quasi-Lagrangian Coupled Model. Part I: Model Overview and Evaluation of Systematic Errors. Monthly Weather Review, 2018, 146, 1601-1617.	0.5	18
7	Evaluation of MJO Predictive Skill in Multiphysics and Multimodel Global Ensembles. Monthly Weather Review, 2017, 145, 2555-2574.	0.5	20
8	North Atlantic simulations in Coordinated Ocean-ice Reference Experiments phase II (CORE-II). Part II: Inter-annual to decadal variability. Ocean Modelling, 2016, 97, 65-90.	1.0	131
9	Future climate change under RCP emission scenarios with GISS <scp>M</scp>odelE2. Journal of Advances in Modeling Earth Systems, 2015, 7, 244-267.	1.3	112
10	A Vertically Flow-Following Icosahedral Grid Model for Medium-Range and Seasonal Prediction. Part I: Model Description. Monthly Weather Review, 2015, 143, 2386-2403.	0.5	19
11	CMIP5 historical simulations (1850â€“2012) with GISS ModelE2. Journal of Advances in Modeling Earth Systems, 2014, 6, 441-478.	1.3	133
12	Configuration and assessment of the GISS ModelE2 contributions to the CMIP5 archive. Journal of Advances in Modeling Earth Systems, 2014, 6, 141-184.	1.3	597
13	Natural airâ€sea flux of CO2 in simulations of the NASA-GISS climate model: Sensitivity to the physical ocean model formulation. Ocean Modelling, 2013, 66, 26-44.	1.0	27
14	A multistep flux-corrected transport scheme. Journal of Computational Physics, 2010, 229, 9284-9298.	1.9	7
15	On the Use of an Adaptive, Hybrid-Isentropic Vertical Coordinate in Global Atmospheric Modeling. Monthly Weather Review, 2010, 138, 2188-2210.	0.5	19
16	US GODAE: Global Ocean Prediction with the HYbrid Coordinate Ocean Model (HYCOM). Oceanography, 2009, 22, 64-75.	0.5	374
17	The HYCOM (HYbrid Coordinate Ocean Model) data assimilative system. Journal of Marine Systems, 2007, 65, 60-83.	0.9	781
18	Geographic distribution of the diapycnal component of thermohaline circulations in coupled climate models. Ocean Modelling, 2006, 15, 177-199.	1.0	13

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19	Multi-century simulations with the coupled GISSâ€“HYCOM climate model: control experiments. Climate Dynamics, 2006, 26, 407-428.	1.7	39
20	Ocean Prediction with the Hybrid Coordinate Ocean Model (HYCOM). , 2006, , 413-426.		43
21	On the Use of Hybrid Vertical Coordinates in Ocean Circulation Modeling. , 2006, , 109-126.		7
22	Putting models to the data test: a case study using Indian Ocean CFC-11 data. Ocean Modelling, 2005, 9, 1-22.	1.0	11
23	Multi-decadal thermohaline variability in an oceanâ€“atmosphere general circulation model. Climate Dynamics, 2004, 22, 573-590.	1.7	34
24	Recent changes in the air-sea gas exchange of methyl chloroform. Geophysical Research Letters, 2004, 31, .	1.5	25
25	Diagnostics of the oceanic thermohaline circulation in a coupled climate model. Global and Planetary Change, 2004, 40, 233-248.	1.6	10
26	Mesoscale Weather Prediction with the RUC Hybrid Isentropicâ€“Terrain-Following Coordinate Model. Monthly Weather Review, 2004, 132, 473-494.	0.5	219
27	A study of the circulation and salinity budget of the Arabian Sea with an isopycnic coordinate ocean model. Deep-Sea Research Part II: Topical Studies in Oceanography, 2003, 50, 2091-2110.	0.6	9
28	North Atlantic Simulations with the Hybrid Coordinate Ocean Model (HYCOM): Impact of the Vertical Coordinate Choice, Reference Pressure, and Thermobaricity. Journal of Physical Oceanography, 2003, 33, 2504-2526.	0.7	334
29	NAO influence on sea ice extent in the Eurasian coastal region. Geophysical Research Letters, 2002, 29, 10-1-10-4.	1.5	29
30	An oceanic general circulation model framed in hybrid isopycnic-Cartesian coordinates. Ocean Modelling, 2002, 4, 55-88.	1.0	1,028
31	Atlantic thermohaline circulation and its response to increasing CO2in a coupled atmosphere-ocean model. Geophysical Research Letters, 2001, 28, 4223-4226.	1.5	22
32	Thermohaline Circulation Studies with an Isopycnic Coordinate Ocean Model. Journal of Physical Oceanography, 2001, 31, 2761-2782.	0.7	23
33	The Impact of Lateral Boundary Conditions and Horizontal Resolution on North Atlantic Water Mass Transformations and Pathways in an Isopycnic Coordinate Ocean Model. Journal of Physical Oceanography, 2000, 30, 137-159.	0.7	21
34	Sea surface velocities from sea surface temperature image sequences: 1. Method and validation using primitive equation model output. Journal of Geophysical Research, 2000, 105, 19499-19514.	3.3	37
35	Ocean State Estimation and Prediction in Support of Oceanographic Research. Oceanography, 2000, 13, 51-56.	0.5	22
36	Turbulent behavior of a fine mesh (1/12Â°) numerical simulation of the North Atlantic. Journal of Marine Systems, 1999, 21, 307-320.	0.9	55

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37	Inclusion of Thermobaricity in Isopycnic-Coordinate Ocean Models. Journal of Physical Oceanography, 1999, 29, 2719-2729.	0.7	64
38	A new approximation of the equation of state for seawater, suitable for numerical ocean models. Journal of Geophysical Research, 1999, 104, 1537-1540.	3.3	71
39	Ocean Modeling in Isopycnic Coordinates. , 1998, , 423-448.		34
40	GLOBAL OCEAN SIMULATIONS WITH AN ISOPYCNIC COORDINATE MODEL. , 1997, , 297-317.		5
41	Multidimensional Forward-in-Time and Upstream-in-Space-Based Differencing for Fluids. Monthly Weather Review, 1997, 125, 616-630.	0.5	9
42	A Model Comparison: Numerical Simulations of the North and Equatorial Atlantic Oceanic Circulation in Depth and Isopycnic Coordinates. Journal of Physical Oceanography, 1996, 26, 1849-1867.	0.7	62
43	The Influence of Layer Outeropping on the Separation of Boundary Currents. Part II: The Wind- and Buoyancy-Driven Experiments. Journal of Physical Oceanography, 1995, 25, 2404-2422.	0.7	9
44	A comparison of data-parallel and message-passing versions of the Miami Isopycnic Coordinate Ocean Model (MICOM). Parallel Computing, 1995, 21, 1695-1720.	1.3	52
45	Regional Weather Prediction with a Model Combining Terrain-following and Isentropic Coordinates. Part I: Model Description. Monthly Weather Review, 1993, 121, 1770-1785.	0.5	117
46	The Influence of Layer Outcropping on the Separation of Boundary Currents. Part I: The Wind-driven Experiments. Journal of Physical Oceanography, 1993, 23, 1485-1507.	0.7	21
47	Layer Outcropping in Numerical Models of Stratified Flows. Journal of Physical Oceanography, 1993, 23, 1877-1884.	0.7	13
48	Salinity-driven Thermocline Transients in a Wind- and Thermohaline-forced Isopycnic Coordinate Model of the North Atlantic. Journal of Physical Oceanography, 1992, 22, 1486-1505.	0.7	481
49	Tendency Equations for Shear and Curvature Vorticity in Coordinate-independent Vector Notation. Journals of the Atmospheric Sciences, 1991, 48, 1124-1127.	0.6	4
50	Factors Affecting Cold-Air Outbreaks East of the Rocky Mountains. Monthly Weather Review, 1991, 119, 2280-2292.	0.5	26
51	A windâ€driven isopycnic coordinate model of the north and equatorial Atlantic Ocean: 1. Model development and supporting experiments. Journal of Geophysical Research, 1990, 95, 3273-3285.	3.3	277
52	A windâ€driven isopycnic coordinate model of the north and equatorial Atlantic Ocean 2. The Atlantic Basin Experiments. Journal of Geophysical Research, 1990, 95, 13105-13128.	3.3	26
53	Depiction of Upper/Lower Vortex Interaction Associated with Extratropical Cyclogenesis. Monthly Weather Review, 1990, 118, 573-585.	0.5	22
54	Meteorological analysis of long range transport of mineral aerosols over the North Pacific. Journal of Geophysical Research, 1989, 94, 8584-8598.	3.3	306

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55	Mixed Layer-Thermocline Interaction in a Three-Dimensional Isopycnic Coordinate Model. Journal of Physical Oceanography, 1989, 19, 1417-1439.	0.7	79
56	A two-dimensional model of mesoscale frontogenesis in the ocean. Quarterly Journal of the Royal Meteorological Society, 1988, 114, 347-371.	1.0	34
57	The Inclusion of a Surface Mixed Layer in a Large-Scale Circulation Model. Elsevier Oceanography Series, 1988, 46, 51-62.	0.1	8
58	A numerical model of instabilities in the Florida Current. Journal of Marine Research, 1988, 46, 715-751.	0.3	21
59	Study of Transport Fluctuations and Meandering of The Florida Current using an Isopycnic Coordinate Numerical Model. Elsevier Oceanography Series, 1987, 45, 149-168.	0.1	1
60	Windâ€driven spinâ€up in eddyâ€resolving ocean models formulated in isopycnic and isobaric coordinates. Journal of Geophysical Research, 1986, 91, 7611-7621.	3.3	143
61	Techniques of Lagrangian Trajectory Analysis in Isentropic Coordinates. Monthly Weather Review, 1986, 114, 571-581.	0.5	76
62	Jet Streak Dynamics and Geostrophic Adjustment Processes during the Initial Stages of Lee Cyclogenesis. Monthly Weather Review, 1986, 114, 2033-2056.	0.5	45
63	Jet Streak Dynamics and Geostrophic Adjustment Processes During the Initial Stages of Lee Cyclogenesis. , 1986, , 885-901.		0
64	On the conversion between mean and eddy components of potential and kinetic energy in isentropic and isopycnic coordinates. Dynamics of Atmospheres and Oceans, 1985, 9, 17-37.	0.7	26
65	Modeling atmospheric transport to the Marshall Islands. Journal of Geophysical Research, 1985, 90, 12927-12936.	3.3	147
66	Enhancement of Remotely Sensed Temperature Fields by Wind Observations from a VHF Radar Network. Monthly Weather Review, 1984, 112, 1795-1803.	0.5	6
67	Vertical Coordinate Transformation of Vertically-Discretized Atmospheric Fields. Monthly Weather Review, 1984, 112, 2535-2539.	0.5	6
68	Initial Testing of a Numerical Ocean Circulation Model Using a Hybrid (Quasi-Isopycnic) Vertical Coordinate. Journal of Physical Oceanography, 1981, 11, 755-770.	0.7	224
69	Simulation of coastal upwelling frontogenesis with an isopycnic coordinate model. Journal of Geophysical Research, 1978, 83, 6163-6172.	3.3	10
70	On the Use of Hybrid Vertical Coordinates in Numerical Weather Prediction Models. Monthly Weather Review, 1978, 106, 1233-1244.	0.5	46
71	A Comparison of Several Meteorological Analysis Schemes over a Data-Rich Region. Monthly Weather Review, 1977, 105, 1083-1091.	0.5	6
72	Numerical Simulation of Lee Cyclogenesis in the Gulf of Genoa. Monthly Weather Review, 1977, 105, 428-445.	0.5	29

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73	An Economical Approach to the Use of Wind Data in the Optimum Interpolation of Geo- and Montgomery Potential Fields. Monthly Weather Review, 1975, 103, 807-816.	0.5	11
74	Short-Range Prediction in Isentropic Coordinates with Filtered and Unfiltered Numerical Models. Monthly Weather Review, 1974, 102, 813-829.	0.5	41
75	Numerical Forecasting Experiments Based on the Conservation of Potential Vorticity on Isentropic Surfaces. Journal of Applied Meteorology, 1973, 12, 737-752.	1.1	39
76	Hail Growth by Stochastic Collection in a Cumulus Model. Journals of the Atmospheric Sciences, 1972, 29, 135-155.	0.6	88
77	Tropospheric and Stratospheric Ducting of Stationary Mountain Lee Waves. Journals of the Atmospheric Sciences, 1970, 27, 758-772.	0.6	15
78	Observed distribution of radioactivity, ozone, and potential vorticity associated with tropopause folding. Journal of Geophysical Research, 1970, 75, 2353-2361.	3.3	58
79	A fast, approximative method for integrating the stochastic coalescence equation. Journal of Geophysical Research, 1970, 75, 5165-5171.	3.3	93
80	Trace Constituents in the Vicinity of Jet Streams. Journal of Applied Meteorology, 1969, 8, 348-356.	1.1	6
81	Removal of Aerosol Particles and Fractional Separation of HDO-H2O During Snowstorms. Journals of the Atmospheric Sciences, 1969, 26, 289-301.	0.6	8