

# Tapio E Schneider

## List of Publications by Year in descending order

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Version: 2024-02-01

138  
papers

10,682  
citations

38742

50  
h-index

34986

98  
g-index

164  
all docs

164  
docs citations

164  
times ranked

9154  
citing authors

#	ARTICLE	IF	CITATIONS
1	Parameter Uncertainty Quantification in an Idealized GCM With a Seasonal Cycle. <i>Journal of Advances in Modeling Earth Systems</i> , 2022, 14, .	3.8	9
2	Seasonal Cycle of Idealized Polar Clouds: Large Eddy Simulations Driven by a GCM. <i>Journal of Advances in Modeling Earth Systems</i> , 2022, 14, .	3.8	1
3	A Library of Large-Eddy Simulations Forced by Global Climate Models. <i>Journal of Advances in Modeling Earth Systems</i> , 2022, 14, .	3.8	10
4	Thank You to Our 2021 Reviewers. <i>Journal of Advances in Modeling Earth Systems</i> , 2022, 14, .	3.8	0
5	Iterated Kalman methodology for inverse problems. <i>Journal of Computational Physics</i> , 2022, 463, 111262.	3.8	14
6	Epidemic management and control through risk-dependent individual contact interventions. <i>PLoS Computational Biology</i> , 2022, 18, e1010171.	3.2	9
7	Calibrate, emulate, sample. <i>Journal of Computational Physics</i> , 2021, 424, 109716.	3.8	43
8	Is the Surface Salinity Difference between the Atlantic and Indo-Pacific a Signature of the Atlantic Meridional Overturning Circulation?. <i>Journal of Physical Oceanography</i> , 2021, 51, 769-787.	1.7	3
9	Concerning the Aims and Scope for <i>JAMES</i> . <i>Journal of Advances in Modeling Earth Systems</i> , 2021, 13, e2021MS002567.	3.8	2
10	Predicting the Interannual Variability of California's Total Annual Precipitation. <i>Geophysical Research Letters</i> , 2021, 48, e2020GL091465.	4.0	6
11	Accelerating progress in climate science. <i>Physics Today</i> , 2021, 74, 44-51.	0.3	9
12	Assessing Biases and Climate Implications of the Diurnal Precipitation Cycle in Climate Models. <i>Geophysical Research Letters</i> , 2021, 48, e2021GL093017.	4.0	25
13	Calibration and Uncertainty Quantification of Convective Parameters in an Idealized GCM. <i>Journal of Advances in Modeling Earth Systems</i> , 2021, 13, e2020MS002454.	3.8	20
14	Top-of-Atmosphere Albedo Bias from Neglecting Three-Dimensional Cloud Radiative Effects. <i>Journals of the Atmospheric Sciences</i> , 2021, 78, 4053-4069.	1.7	4
15	Constraining the Date of a Seasonally Ice-Free Arctic Using a Simple Model. <i>Geophysical Research Letters</i> , 2021, 48, e2021GL094309.	4.0	22
16	Learning stochastic closures using ensemble Kalman inversion. <i>Transactions of Mathematics and Its Applications</i> , 2021, 5, .	3.3	9
17	Midwinter Suppression of Storm Tracks in an Idealized Zonally Symmetric Setting. <i>Journals of the Atmospheric Sciences</i> , 2020, 77, 297-313.	1.7	10
18	Corrigendum to "Both differential and equatorial heating contributed to African monsoon variations during the mid-Holocene" [Earth Planet. Sci. Lett. 522 (2019) 20-29]. <i>Earth and Planetary Science Letters</i> , 2020, 530, 115938.	4.4	0

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19	Atmospheric Circulation Response to Short-Term Arctic Warming in an Idealized Model. <i>Journals of the Atmospheric Sciences</i> , 2020, 77, 531-549.	1.7	24
20	Sensitivity of idealized mixed-phase stratocumulus to climate perturbations. <i>Quarterly Journal of the Royal Meteorological Society</i> , 2020, 146, 3285-3305.	2.7	4
21	Solar geoengineering may not prevent strong warming from direct effects of CO <sub>2</sub> on stratocumulus cloud cover. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2020, 117, 30179-30185.	7.1	11
22	Unified Entrainment and Detrainment Closures for Extended Eddy Diffusivity Mass Flux Schemes. <i>Journal of Advances in Modeling Earth Systems</i> , 2020, 12, e2020MS002162.	3.8	15
23	A Continuous Record of Central Tropical Pacific Climate Since the Midnineteenth Century Reconstructed From Fanning and Palmyra Island Corals: A Case Study in Coral Data Reanalysis. <i>Paleoceanography and Paleoclimatology</i> , 2020, 35, e2020PA003848.	2.9	12
24	A Generalized Mixing Length Closure for Eddy Diffusivity Mass Flux Schemes of Turbulence and Convection. <i>Journal of Advances in Modeling Earth Systems</i> , 2020, 12, e2020MS002161.	3.8	12
25	Statistically Steady State Large Eddy Simulations Forced by an Idealized GCM: 1. Forcing Framework and Simulation Characteristics. <i>Journal of Advances in Modeling Earth Systems</i> , 2020, 12, e2019MS001814.	3.8	7
26	Pattern Recognition Methods to Separate Forced Responses from Internal Variability in Climate Model Ensembles and Observations. <i>Journal of Climate</i> , 2020, 33, 8693-8719.	3.2	53
27	Climate 1970-2020. , 2020, , 23-32.		1
28	Both differential and equatorial heating contributed to African monsoon variations during the mid-Holocene. <i>Earth and Planetary Science Letters</i> , 2019, 522, 20-29.	4.4	12
29	Possible climate transitions from breakup of stratocumulus decks under greenhouse warming. <i>Nature Geoscience</i> , 2019, 12, 163-167.	12.9	148
30	An Extended Eddy Diffusivity Mass Flux Scheme for Unified Representation of Subgrid Scale Turbulence and Convection. <i>Journal of Advances in Modeling Earth Systems</i> , 2018, 10, 770-800.	3.8	55
31	Linking Hadley Circulation and Storm Tracks in a Conceptual Model of the Atmospheric Energy Balance. <i>Journals of the Atmospheric Sciences</i> , 2018, 75, 841-856.	1.7	36
32	Atmospheric Dynamics Feedback: Concept, Simulations, and Climate Implications. <i>Journal of Climate</i> , 2018, 31, 3249-3264.	3.2	21
33	Disentangling Global Warming, Multidecadal Variability, and El Niño in Pacific Temperatures. <i>Geophysical Research Letters</i> , 2018, 45, 2487-2496.	4.0	114
34	Regional and seasonal variations of the double-ITCZ bias in CMIP5 models. <i>Climate Dynamics</i> , 2018, 51, 101-117.	3.8	66
35	Mechanisms Setting the Strength of Orographic Rossby Waves across a Wide Range of Climates in a Moist Idealized GCM. <i>Journal of Climate</i> , 2018, 31, 7679-7700.	3.2	17
36	Eddy Lifetime, Number, and Diffusivity and the Suppression of Eddy Kinetic Energy in Midwinter. <i>Journal of Climate</i> , 2018, 31, 5649-5665.	3.2	24

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37	Storm-Track Shifts under Climate Change: Toward a Mechanistic Understanding Using Baroclinic Mean Available Potential Energy. <i>Journals of the Atmospheric Sciences</i> , 2017, 74, 93-110.	1.7	44
38	Local Energetic Constraints on Walker Circulation Strength. <i>Journals of the Atmospheric Sciences</i> , 2017, 74, 1907-1922.	1.7	21
39	Large-eddy simulation of subtropical cloud-topped boundary layers: 2. Cloud response to climate change. <i>Journal of Advances in Modeling Earth Systems</i> , 2017, 9, 19-38.	3.8	22
40	Numerics and subgrid-scale modeling in large eddy simulations of stratocumulus clouds. <i>Journal of Advances in Modeling Earth Systems</i> , 2017, 9, 1342-1365.	3.8	43
41	Climate goals and computing the future of clouds. <i>Nature Climate Change</i> , 2017, 7, 3-5.	18.8	177
42	Evolving perspectives on abrupt seasonal changes of the general circulation. <i>Advances in Atmospheric Sciences</i> , 2017, 34, 1185-1194.	4.3	9
43	Factors controlling Hadley circulation changes from the Last Glacial Maximum to the end of the 21st century. <i>Geophysical Research Letters</i> , 2017, 44, 8585-8591.	4.0	32
44	Earth System Modeling 2.0: A Blueprint for Models That Learn From Observations and Targeted High-Resolution Simulations. <i>Geophysical Research Letters</i> , 2017, 44, 12,396.	4.0	197
45	A Conceptual Model for the Response of Tropical Rainfall to Orbital Variations. <i>Journal of Climate</i> , 2017, 30, 8375-8391.	3.2	17
46	Feedback of Atmosphere-Ocean Coupling on Shifts of the Intertropical Convergence Zone. <i>Geophysical Research Letters</i> , 2017, 44, 11,644.	4.0	44
47	Feedback of Atmosphere-Ocean Coupling on Shifts of the Intertropical Convergence Zone. , 2017, 44, 11,644.		1
48	Cumulant expansions for atmospheric flows. <i>New Journal of Physics</i> , 2016, 18, 025019.	2.9	18
49	The Equatorial Energy Balance, ITCZ Position, and Double-ITCZ Bifurcations. <i>Journal of Climate</i> , 2016, 29, 2997-3013.	3.2	74
50	Seasonal and Interannual Variations of the Energy Flux Equator and ITCZ. Part I: Zonally Averaged ITCZ Position. <i>Journal of Climate</i> , 2016, 29, 3219-3230.	3.2	104
51	Large-eddy simulation of subtropical cloud-topped boundary layers: 1. A forcing framework with closed surface energy balance. <i>Journal of Advances in Modeling Earth Systems</i> , 2016, 8, 1565-1585.	3.8	18
52	The organization of Jupiter's upper tropospheric temperature structure and its evolution, 1996-1997. <i>Icarus</i> , 2016, 280, 268-277.	2.5	5
53	Thermodynamic and dynamic controls on changes in the zonally anomalous hydrological cycle. <i>Geophysical Research Letters</i> , 2016, 43, 4640-4649.	4.0	32
54	Contrasting responses to orbital precession on Titan and Earth. <i>Geophysical Research Letters</i> , 2016, 43, 7774-7780.	4.0	4

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55	Seasonal and Interannual Variations of the Energy Flux Equator and ITCZ. Part II: Zonally Varying Shifts of the ITCZ. <i>Journal of Climate</i> , 2016, 29, 7281-7293.	3.2	70
56	Narrowing of the ITCZ in a warming climate: Physical mechanisms. <i>Geophysical Research Letters</i> , 2016, 43, 11,350.	4.0	102
57	Relation of the double-ITCZ bias to the atmospheric energy budget in climate models. <i>Geophysical Research Letters</i> , 2016, 43, 7670-7677.	4.0	62
58	Constraints on Climate Sensitivity from Space-Based Measurements of Low-Cloud Reflection. <i>Journal of Climate</i> , 2016, 29, 5821-5835.	3.2	91
59	Energetic Constraints on the Width of the Intertropical Convergence Zone. <i>Journal of Climate</i> , 2016, 29, 4709-4721.	3.2	57
60	How Stationary Eddies Shape Changes in the Hydrological Cycle: Zonally Asymmetric Experiments in an Idealized GCM. <i>Journal of Climate</i> , 2016, 29, 3161-3179.	3.2	14
61	Shallowness of tropical low clouds as a predictor of climate models' response to warming. <i>Climate Dynamics</i> , 2016, 47, 433-449.	3.8	92
62	Narrowing of the ITCZ in a warming climate: Physical mechanisms. , 2016, 43, 11,350.		1
63	Large-eddy simulation in an anelastic framework with closed water and entropy balances. <i>Journal of Advances in Modeling Earth Systems</i> , 2015, 7, 1425-1456.	3.8	38
64	Stationary Eddies and the Zonal Asymmetry of Net Precipitation and Ocean Freshwater Forcing. <i>Journal of Climate</i> , 2015, 28, 5115-5133.	3.2	29
65	Physics of Changes in Synoptic Midlatitude Temperature Variability. <i>Journal of Climate</i> , 2015, 28, 2312-2331.	3.2	131
66	Scaling of Off-Equatorial Jets in Giant Planet Atmospheres. <i>Journals of the Atmospheric Sciences</i> , 2015, 72, 389-408.	1.7	16
67	Interannual Variability in the Large-Scale Dynamics of the South Asian Summer Monsoon. <i>Journal of Climate</i> , 2015, 28, 3731-3750.	3.2	39
68	Martian atmospheric collapse: Idealized GCM studies. <i>Icarus</i> , 2015, 250, 553-569.	2.5	35
69	Why Eddy Momentum Fluxes are Concentrated in the Upper Troposphere. <i>Journals of the Atmospheric Sciences</i> , 2015, 72, 1585-1604.	1.7	27
70	Superrotation in Terrestrial Atmospheres. <i>Journals of the Atmospheric Sciences</i> , 2015, 72, 4281-4296.	1.7	21
71	Baroclinic Eddies and the Extent of the Hadley Circulation: An Idealized GCM Study. <i>Journals of the Atmospheric Sciences</i> , 2015, 72, 2744-2761.	1.7	57
72	Role of Changes in Mean Temperatures versus Temperature Gradients in the Recent Widening of the Hadley Circulation. <i>Journal of Climate</i> , 2014, 27, 7450-7461.	3.2	73

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73	Energetic Constraints on the Position of the Intertropical Convergence Zone. <i>Journal of Climate</i> , 2014, 27, 4937-4951.	3.2	146
74	Migrations and dynamics of the intertropical convergence zone. <i>Nature</i> , 2014, 513, 45-53.	27.8	909
75	Constraining the depth of Saturn's zonal winds by measuring thermal and gravitational signals. <i>Icarus</i> , 2014, 239, 260-272.	2.5	16
76	The Role of Stationary Eddies in Shaping Midlatitude Storm Tracks. <i>Journals of the Atmospheric Sciences</i> , 2013, 70, 2596-2613.	1.7	76
77	Storm Track Shifts under Climate Change: What Can Be Learned from Large-Scale Dry Dynamics. <i>Journal of Climate</i> , 2013, 26, 9923-9930.	3.2	48
78	Wind driven capillary-gravity waves on Titan's lakes: Hard to detect or non-existent?. <i>Icarus</i> , 2013, 225, 403-412.	2.5	42
79	Predictions of thermal and gravitational signals of Jupiter's deep zonal winds. <i>Icarus</i> , 2013, 224, 114-125.	2.5	26
80	The Force Balance of the Southern Ocean Meridional Overturning Circulation. <i>Journal of Physical Oceanography</i> , 2013, 43, 1193-1208.	1.7	29
81	Hadley Circulation Response to Orbital Precession. Part I: Aquaplanets. <i>Journal of Climate</i> , 2013, 26, 740-753.	3.2	61
82	The Tropical Precipitation Response to Orbital Precession. <i>Journal of Climate</i> , 2013, 26, 2010-2021.	3.2	52
83	Hadley Circulation Response to Orbital Precession. Part II: Subtropical Continent. <i>Journal of Climate</i> , 2013, 26, 754-771.	3.2	52
84	Continental arc-island arc fluctuations, growth of crustal carbonates, and long-term climate change. , 2013, 9, 21-36.		134
85	Polar methane accumulation and rainstorms on Titan from simulations of the methane cycle. <i>Nature</i> , 2012, 481, 58-61.	27.8	118
86	Correction to "Atmospheric dynamics of Earth-like tidally locked aquaplanets". <i>Journal of Advances in Modeling Earth Systems</i> , 2012, 4, .	3.8	0
87	The imprint of surface fluxes and transport on variations in total column carbon dioxide. <i>Biogeosciences</i> , 2012, 9, 875-891.	3.3	98
88	Recovery and characterization of Neptune's near-polar stratospheric hot spot. <i>Planetary and Space Science</i> , 2012, 61, 161-167.	1.7	13
89	Downstream Self-Destruction of Storm Tracks. <i>Journals of the Atmospheric Sciences</i> , 2011, 68, 2459-2464.	1.7	33
90	Sources of variations in total column carbon dioxide. <i>Atmospheric Chemistry and Physics</i> , 2011, 11, 3581-3593.	4.9	149

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91	Winter cold of eastern continental boundaries induced by warm ocean waters. <i>Nature</i> , 2011, 471, 621-624.	27.8	63
92	Consistent Changes in the Sea Ice Seasonal Cycle in Response to Global Warming. <i>Journal of Climate</i> , 2011, 24, 5325-5335.	3.2	38
93	Convective Generation of Equatorial Superrotation in Planetary Atmospheres. <i>Journals of the Atmospheric Sciences</i> , 2011, 68, 2742-2756.	1.7	36
94	The Relative Humidity in an Isentropic Advection–Condensation Model: Limited Poleward Influence and Properties of Subtropical Minima. <i>Journals of the Atmospheric Sciences</i> , 2011, 68, 3079-3093.	1.7	13
95	Response of the Hadley Circulation to Climate Change in an Aquaplanet GCM Coupled to a Simple Representation of Ocean Heat Transport. <i>Journals of the Atmospheric Sciences</i> , 2011, 68, 769-783.	1.7	84
96	Changes in Zonal Surface Temperature Gradients and Walker Circulations in a Wide Range of Climates. <i>Journal of Climate</i> , 2011, 24, 4757-4768.	3.2	47
97	Mechanisms of Jet Formation on the Giant Planets. <i>Journals of the Atmospheric Sciences</i> , 2010, 67, 3652-3672.	1.7	105
98	Regime Transitions of Steady and Time-Dependent Hadley Circulations: Comparison of Axisymmetric and Eddy-Permitting Simulations. <i>Journals of the Atmospheric Sciences</i> , 2010, 67, 1643-1654.	1.7	48
99	The Maintenance of the Relative Humidity of the Subtropical Free Troposphere. <i>Journal of Climate</i> , 2010, 23, 390-403.	3.2	40
100	Atmospheric Dynamics of Earth–Like Tidally Locked Aquaplanets. <i>Journal of Advances in Modeling Earth Systems</i> , 2010, 2, .	3.8	160
101	WATER VAPOR AND THE DYNAMICS OF CLIMATE CHANGES. <i>Reviews of Geophysics</i> , 2010, 48, .	23.0	358
102	Scaling of Precipitation Extremes over a Wide Range of Climates Simulated with an Idealized GCM. <i>Journal of Climate</i> , 2009, 22, 5676-5685.	3.2	172
103	Scales of Linear Baroclinic Instability and Macroturbulence in Dry Atmospheres. <i>Journals of the Atmospheric Sciences</i> , 2009, 66, 1821-1833.	1.7	24
104	Formation of Jets and Equatorial Superrotation on Jupiter. <i>Journals of the Atmospheric Sciences</i> , 2009, 66, 579-601.	1.7	132
105	Storms in the tropics of Titan. <i>Nature</i> , 2009, 460, 873-875.	27.8	81
106	Single-layer axisymmetric model for a Hadley circulation with parameterized eddy momentum forcing. <i>Journal of Advances in Modeling Earth Systems</i> , 2009, 1, .	3.8	11
107	The physical basis for increases in precipitation extremes in simulations of 21st-century climate change. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2009, 106, 14773-14777.	7.1	853
108	Monsoons as eddy-mediated regime transitions of the tropical overturning circulation. <i>Nature Geoscience</i> , 2008, 1, 515-519.	12.9	192

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109	Extent of Hadley circulations in dry atmospheres. <i>Geophysical Research Letters</i> , 2008, 35, .	4.0	48
110	Energy of Midlatitude Transient Eddies in Idealized Simulations of Changed Climates. <i>Journal of Climate</i> , 2008, 21, 5797-5806.	3.2	100
111	Moist Convection and the Thermal Stratification of the Extratropical Troposphere. <i>Journals of the Atmospheric Sciences</i> , 2008, 65, 3571-3583.	1.7	45
112	Eddy-Mediated Regime Transitions in the Seasonal Cycle of a Hadley Circulation and Implications for Monsoon Dynamics. <i>Journals of the Atmospheric Sciences</i> , 2008, 65, 915-934.	1.7	126
113	Statistics of an Unstable Barotropic Jet from a Cumulant Expansion. <i>Journals of the Atmospheric Sciences</i> , 2008, 65, 1955-1966.	1.7	89
114	Scaling Laws and Regime Transitions of Macroturbulence in Dry Atmospheres. <i>Journals of the Atmospheric Sciences</i> , 2008, 65, 2153-2173.	1.7	43
115	The Hydrological Cycle over a Wide Range of Climates Simulated with an Idealized GCM. <i>Journal of Climate</i> , 2008, 21, 3815-3832.	3.2	240
116	Weather-Layer Dynamics of Baroclinic Eddies and Multiple Jets in an Idealized General Circulation Model. <i>Journals of the Atmospheric Sciences</i> , 2008, 65, 524-535.	1.7	24
117	Chapter 3 The Thermal Stratification of the Extratropical Troposphere. , 2008, , 47-77.		7
118	A Climatology of the Tropospheric Thermal Stratification Using Saturation Potential Vorticity. <i>Journal of Climate</i> , 2007, 20, 5977-5991.	3.2	39
119	Recovery of atmospheric flow statistics in a general circulation model without nonlinear eddyâ€eddy interactions. <i>Geophysical Research Letters</i> , 2007, 34, .	4.0	45
120	Uncertainty in climate-sensitivity estimates. <i>Nature</i> , 2007, 446, E1-E1.	27.8	5
121	Comment on &quot;Spatio-temporal filling of missing points in geophysical data sets&quot; by D. Kondrashov and M. Ghil, <i>Nonlin. Processes Geophys.</i> , 13, 151â€159, 2006. <i>Nonlinear Processes in Geophysics</i> , 2007, 14, 1-2.	1.3	17
122	The General Circulation of the Atmosphere. <i>Annual Review of Earth and Planetary Sciences</i> , 2006, 34, 655-688.	11.0	285
123	Eddy Influences on Hadley Circulations: Simulations with an Idealized GCM. <i>Journals of the Atmospheric Sciences</i> , 2006, 63, 3333-3350.	1.7	241
124	Self-Organization of Atmospheric Macroturbulence into Critical States of Weak Nonlinear Eddyâ€Eddy Interactions. <i>Journals of the Atmospheric Sciences</i> , 2006, 63, 1569-1586.	1.7	136
125	A Climatology of Tropospheric Zonal-Mean Water Vapor Fields and Fluxes in Isentropic Coordinates. <i>Journal of Climate</i> , 2006, 19, 5918-5933.	3.2	57
126	Stochastic Models for the Kinematics of Moisture Transport and Condensation in Homogeneous Turbulent Flows. <i>Journals of the Atmospheric Sciences</i> , 2006, 63, 2992-3005.	1.7	28



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127	Global Circulation of the Atmosphere (2004). Bulletin of the American Meteorological Society, 2006, 87, 807-810.	3.3	2
128	Zonal Momentum Balance, Potential Vorticity Dynamics, and Mass Fluxes on Near-Surface Isentropes. Journals of the Atmospheric Sciences, 2005, 62, 1884-1900.	1.7	36
129	Response of idealized Hadley circulations to seasonally varying heating. Geophysical Research Letters, 2005, 32, .	4.0	54
130	Using generalized cross-validation to select parameters in inversions for regional carbon fluxes. Geophysical Research Letters, 2004, 31, .	4.0	26
131	The Tropopause and the Thermal Stratification in the Extratropics of a Dry Atmosphere. Journals of the Atmospheric Sciences, 2004, 61, 1317-1340.	1.7	124
132	Boundary Effects in Potential Vorticity Dynamics. Journals of the Atmospheric Sciences, 2003, 60, 1024-1040.	1.7	50
133	Analysis of Incomplete Climate Data: Estimation of Mean Values and Covariance Matrices and Imputation of Missing Values. Journal of Climate, 2001, 14, 853-871.	3.2	591
134	Algorithm 808. ACM Transactions on Mathematical Software, 2001, 27, 58-65.	2.9	310
135	Discriminants of Twentieth-Century Changes in Earth Surface Temperatures. Journal of Climate, 2001, 14, 249-254.	3.2	65
136	Estimation of parameters and eigenmodes of multivariate autoregressive models. ACM Transactions on Mathematical Software, 2001, 27, 27-57.	2.9	400
137	A Conceptual Framework for Predictability Studies. Journal of Climate, 1999, 12, 3133-3155.	3.2	178
138	The Surface Branch of the Zonally Averaged Mass Transport Circulation in the Troposphere. Journals of the Atmospheric Sciences, 1999, 56, 1688-1697.	1.7	151