# Bin Wang

List of Publications by Year
in descending order



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|---|---|---|---|
| 285 papers | 20,330 citations | 16451 64 h-index | 11308 136 g-index |
| 288 all docs | 288 docs citations | 288 times ranked | 10407 citing authors |

| # | Article | IF | Citations |
|---|---|---|---|
| 1 | Pacificâ€“East Asian Teleconnection: How Does ENSO Affect East Asian Climate?. Journal of Climate, 2000, 13, 1517-1536. | 3.2 | 2,340 |
| 2 | Rainy Season of the Asianâ€“Pacific Summer Monsoon*. Journal of Climate, 2002, 15, 386-398. | 3.2 | 1,132 |
| 3 | Interannual Variability of the Asian Summer Monsoon: Contrasts between the Indian and the Western North Pacificâ€“East Asian Monsoons*. Journal of Climate, 2001, 14, 4073-4090. | 3.2 | 887 |
| 4 | Circumglobal Teleconnection in the Northern Hemisphere Summer*. Journal of Climate, 2005, 18, 3483-3505. | 3.2 | 867 |
| 5 | Global Atmospheric Emissions of Polycyclic Aromatic Hydrocarbons from 1960 to 2008 and Future Predictions. Environmental Science & Technology, 2013, 47, 6415-6424. | 10.0 | 661 |
| 6 | Atmosphereâ€“Warm Ocean Interaction and Its Impacts on Asianâ€“Australian Monsoon Variation*. Journal of Climate, 2003, 16, 1195-1211. | 3.2 | 624 |
| 7 | Fundamental challenge in simulation and prediction of summer monsoon rainfall. Geophysical Research Letters, 2005, 32, . | 4.0 | 566 |
| 8 | Subtropical High predictability establishes a promising way for monsoon and tropical storm predictions. Proceedings of the National Academy of Sciences of the United States of America, 2013, 110, 2718-2722. | 7.1 | 477 |
| 9 | Structures and Mechanisms of the Northward Propagating Boreal Summer Intraseasonal Oscillation*. Journal of Climate, 2004, 17, 1022-1039. | 3.2 | 462 |
| 10 | An empirical seasonal prediction model of the east Asian summer monsoon using ENSO and NAO. Journal of Geophysical Research, 2009, 114, . | 3.3 | 403 |
| 11 | Pacificâ€“East Asian Teleconnection. Part II: How the Philippine Sea Anomalous Anticyclone is Established during El NiÃ±o Development*. Journal of Climate, 2002, 15, 3252-3265. | 3.2 | 372 |
| 12 | Global monsoon: Dominant mode of annual variation in the tropics. Dynamics of Atmospheres and Oceans, 2008, 44, 165-183. | 1.8 | 368 |
| 13 | Real-time multivariate indices for the boreal summer intraseasonal oscillation over the Asian summer monsoon region. Climate Dynamics, 2013, 40, 493-509. | 3.8 | 368 |
| 14 | Tropospheric cooling and summer monsoon weakening trend over East Asia. Geophysical Research Letters, 2004, 31, . | 4.0 | 364 |
| 15 | Advance and prospectus of seasonal prediction: assessment of the APCC/CliPAS 14-model ensemble retrospective seasonal prediction (1980â€“2004). Climate Dynamics, 2009, 33, 93-117. | 3.8 | 347 |
| 16 | Northern Hemisphere summer monsoon intensified by mega-El NiÃ±o/southern oscillation and Atlantic multidecadal oscillation. Proceedings of the National Academy of Sciences of the United States of America, 2013, 110, 5347-5352. | 7.1 | 313 |
| 17 | Ensemble Simulations of Asianâ€“Australian Monsoon Variability by 11 AGCMs*. Journal of Climate, 2004, 17, 803-818. | 3.2 | 287 |
| 18 | Coupling between Northward-Propagating, Intraseasonal Oscillations and Sea Surface Temperature in the Indian Ocean*. Journals of the Atmospheric Sciences, 2003, 60, 1733-1753. | 1.7 | 266 |

| # | Article | IF | Citations |
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| 19 | The flexible global ocean-atmosphere-land system model, Grid-point Version 2: FGOALS-g2. Advances in Atmospheric Sciences, 2013, 30, 543-560. | 4.3 | 253 |
| 20 | Changes in global monsoon precipitation over the past 56 years. Geophysical Research Letters, 2006, 33, . | 4.0 | 249 |
| 21 | Northern Hemisphere Summer Monsoon Singularities and Climatological Intraseasonal Oscillation. Journal of Climate, 1997, 10, 1071-1085. | 3.2 | 217 |
| 22 | The Flexible Global Ocean-Atmosphere-Land system model, Spectral Version 2: FGOALS-s2. Advances in Atmospheric Sciences, 2013, 30, 561-576. | 4.3 | 210 |
| 23 | An Ensemble-Based Four-Dimensional Variational Data Assimilation Scheme. Part I: Technical Formulation and Preliminary Test. Monthly Weather Review, 2008, 136, 3363-3373. | 1.4 | 209 |
| 24 | Drought in Late Spring of South China in Recent Decades. Journal of Climate, 2006, 19, 3197-3206. | 3.2 | 191 |
| 25 | How Well Do Atmospheric General Circulation Models Capture the Leading Modes of the Interannual Variability of the Asianâ€“Australian Monsoon?. Journal of Climate, 2009, 22, 1159-1173. | 3.2 | 184 |
| 26 | A Highly Resolved Regional Climate Model (IPRC-RegCM) and Its Simulation of the 1998 Severe Precipitation Event over China. Part I: Model Description and Verification of Simulation*. Journal of Climate, 2003, 16, 1721-1738. | 3.2 | 181 |
| 27 | Rethinking Indian monsoon rainfall prediction in the context of recent global warming. Nature Communications, 2015, 6, 7154. | 12.8 | 165 |
| 28 | Summer rainfall over the southwestern Tibetan Plateau controlled by deep convection over the Indian subcontinent. Nature Communications, 2016, 7, 10925. | 12.8 | 160 |
| 29 | Cracking the MJO nut. Geophysical Research Letters, 2013, 40, 1223-1230. | 4.0 | 154 |
| 30 | Onset of the Summer Monsoon over the Indochina Peninsula: Climatology and Interannual Variations*. Journal of Climate, 2002, 15, 3206-3221. | 3.2 | 151 |
| 31 | Human-induced greening of the northern extratropical land surface. Nature Climate Change, 2016, 6, 959-963. | 18.8 | 145 |
| 32 | Simulation of the Intraseasonal Oscillation in the ECHAM-4 Model: The Impact of Coupling with an Ocean Model*. Journals of the Atmospheric Sciences, 2002, 59, 1433-1453. | 1.7 | 143 |
| 33 | Differences of Boreal Summer Intraseasonal Oscillations Simulated in an Atmosphereâ€“Ocean Coupled Model and an Atmosphere-Only Model*. Journal of Climate, 2004, 17, 1263-1271. | 3.2 | 143 |
| 34 | The NUIST Earth System ModelÂ(NESM) versionÂ3: description and preliminary evaluation. Geoscientific Model Development, 2018, 11, 2975-2993. | 3.6 | 135 |
| 35 | Climate Effects of the Deep Continental Stratus Clouds Generated by the Tibetan Plateau. Journal of Climate, 2004, 17, 2702-2713. | 3.2 | 131 |
| 36 | How are seasonal prediction skills related to modelsâ€™ performance on mean state and annual cycle?. Climate Dynamics, 2010, 35, 267-283. | 3.8 | 131 |

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| 37 | How accurately do coupled climate models predict the leading modes of Asian-Australian monsoon interannual variability?. Climate Dynamics, 2008, 30, 605-619. | 3.8 | 129 |
| 38 | The Flexible Global Oceanâ€Atmosphereâ€Land System Model Gridâ€Point Version 3 (FGOALSâ€g3): Description and Evaluation. Journal of Advances in Modeling Earth Systems, 2020, 12, e2019MS002012. | 3.8 | 129 |
| 39 | Distinct Principal Modes of Early and Late Summer Rainfall Anomalies in East Asia*. Journal of Climate, 2009, 22, 3864-3875. | 3.2 | 123 |
| 40 | Interannual Variations of the Boreal Summer Intraseasonal Oscillation in the Asianâ€“Pacific Region*. Journal of Climate, 2003, 16, 3572-3584. | 3.2 | 122 |
| 41 | An Ensemble-Based Four-Dimensional Variational Data Assimilation Scheme. Part II: Observing System Simulation Experiments with Advanced Research WRF (ARW). Monthly Weather Review, 2009, 137, 1687-1704. | 1.4 | 115 |
| 42 | Conditional nonlinear optimal perturbations as the optimal precursors for El Nino-Southern Oscillation events. Journal of Geophysical Research, 2004, 109, . | 3.3 | 108 |
| 43 | The Timeâ€“Space Structure of the Asianâ€“Pacific Summer Monsoon: A Fast Annual Cycle View*. Journal of Climate, 2002, 15, 2001-2019. | 3.2 | 108 |
| 44 | Asian summer monsoon rainfall predictability: a predictable mode analysis. Climate Dynamics, 2015, 44, 61-74. | 3.8 | 106 |
| 45 | Variable and robust East Asian monsoon rainfall response to El NiÃ±o over the past 60 years (1957â€“2016). Advances in Atmospheric Sciences, 2017, 34, 1235-1248. | 4.3 | 105 |
| 46 | Design of a new dynamical core for global atmospheric models based on some efficient numerical methods. Science in China Series A: Mathematics, 2004, 47, 4. | 0.5 | 102 |
| 47 | Fundamental Causes of Propagating and Nonpropagating MJOs in MJOTF/GASS Models. Journal of Climate, 2017, 30, 3743-3769. | 3.2 | 102 |
| 48 | Season-dependent dynamics of nonlinear optimal error growth and El NiÃ±o-Southern Oscillation predictability in a theoretical model. Journal of Geophysical Research, 2007, 112, . | 3.3 | 101 |
| 49 | Mechanisms for the Advanced Asian Summer Monsoon Onset since the Mid-to-Late 1990s*. Journal of Climate, 2013, 26, 1993-2009. | 3.2 | 101 |
| 50 | Why Is There an Early Spring Cooling Shift Downstream of the Tibetan Plateau?. Journal of Climate, 2005, 18, 4660-4668. | 3.2 | 97 |
| 51 | The Boreal-Summer Intraseasonal Oscillations Simulated in a Hybrid Coupled Atmosphereâ€“Ocean Model*. Monthly Weather Review, 2004, 132, 2628-2649. | 1.4 | 95 |
| 52 | GMMIP (v1.0) contribution to CMIP6: Global Monsoons Model Inter-comparison Project. Geoscientific Model Development, 2016, 9, 3589-3604. | 3.6 | 93 |
| 53 | Detecting human influence on extreme temperatures in China. Geophysical Research Letters, 2013, 40, 1171-1176. | 4.0 | 91 |
| 54 | Initialization and Simulation of a Landfalling Hurricane Using a Variational Bogus Data Assimilation Scheme. Monthly Weather Review, 2000, 128, 2252-2269. | 1.4 | 89 |

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| 55 | Formation Mechanism for 2015/16 Super El NiÃ±o. Scientific Reports, 2017, 7, 2975. | 3.3 | 89 |
| 56 | How predictable is the northern hemisphere summer upper-tropospheric circulation?. Climate Dynamics, 2011, 37, 1189-1203. | 3.8 | 84 |
| 57 | Deficiencies and possibilities for long-lead coupled climate prediction of the Western North Pacific-East Asian summer monsoon. Climate Dynamics, 2011, 36, 1173-1188. | 3.8 | 81 |
| 58 | Regional Model Simulations of Marine Boundary Layer Clouds over the Southeast Pacific off South America. Part I: Control Experiment*. Monthly Weather Review, 2004, 132, 274-296. | 1.4 | 80 |
| 59 | Critical Roles of the Stratiform Rainfall in Sustaining the Maddenâ€“Julian Oscillation: GCM Experiments*. Journal of Climate, 2009, 22, 3939-3959. | 3.2 | 80 |
| 60 | Peak-summer East Asian rainfall predictability and prediction part I: Southeast Asia. Climate Dynamics, 2016, 47, 1-13. | 3.8 | 79 |
| 61 | Predictability of summer northwest Pacific climate in 11 coupled model hindcasts: Local and remote forcing. Journal of Geophysical Research, 2010, 115, . | 3.3 | 78 |
| 62 | Evaluation of grid-point atmospheric model of IAP LASG version 2 (GAMIL2). Advances in Atmospheric Sciences, 2013, 30, 855-867. | 4.3 | 75 |
| 63 | An economical approach to four-dimensional variational data assimilation. Advances in Atmospheric Sciences, 2010, 27, 715-727. | 4.3 | 73 |
| 64 | Seasonal prediction and predictability of the Asian winter temperature variability. Climate Dynamics, 2013, 41, 573-587. | 3.8 | 68 |
| 65 | Teleconnections associated with Northern Hemisphere summer monsoon intraseasonal oscillation. Climate Dynamics, 2013, 40, 2761-2774. | 3.8 | 64 |
| 66 | Data assimilation and its applications. Proceedings of the National Academy of Sciences of the United States of America, 2000, 97, 11143-11144. | 7.1 | 61 |
| 67 | Sensitivity of Dynamical Intraseasonal Prediction Skills to Different Initial Conditions. Monthly Weather Review, 2011, 139, 2572-2592. | 1.4 | 60 |
| 68 | Evaluation of the atmospheric transport in a GCM using radon measurements: sensitivity to cumulus convection parameterization. Atmospheric Chemistry and Physics, 2008, 8, 2811-2832. | 4.9 | 59 |
| 69 | Prediction of early summer rainfall over South China by a physical-empirical model. Climate Dynamics, 2014, 43, 1883-1891. | 3.8 | 57 |
| 70 | Predictability and prediction skill of the boreal summer intraseasonal oscillation in the Intraseasonal Variability Hindcast Experiment. Climate Dynamics, 2015, 45, 2123-2135. | 3.8 | 57 |
| 71 | Are Peak Summer Sultry Heat Wave Days over the Yangtzeâ€“Huaihe River Basin Predictable?. Journal of Climate, 2018, 31, 2185-2196. | 3.2 | 56 |
| 72 | Asian Summer Precipitation over the Past 544 Years Reconstructed by Merging Tree Rings and Historical Documentary Records. Journal of Climate, 2018, 31, 7845-7861. | 3.2 | 56 |

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| 73 | Contributions of natural and anthropogenic forcings to the summer cooling over eastern China: An AGCM study. Geophysical Research Letters, 2007, 34, . | 4.0 | 51 |
| 74 | Anticorrelated intensity change of the quasiâ€biweekly and 30â€“50â€day oscillations over the South China Sea. Geophysical Research Letters, 2008, 35, . | 4.0 | 51 |
| 75 | MJO in the NCAR CAM2 with the Tiedtke Convective Scheme*. Journal of Climate, 2005, 18, 3007-3020. | 3.2 | 48 |
| 76 | Large-Scale Atmospheric Forcing by Southeast Pacific Boundary Layer Clouds: A Regional Model Study*. Journal of Climate, 2005, 18, 934-951. | 3.2 | 47 |
| 77 | Interannual variations of the boreal summer intraseasonal variability predicted by ten atmosphereâ€ocean coupled models. Climate Dynamics, 2008, 30, 485-496. | 3.8 | 46 |
| 78 | Intraseasonal Forecasting of the Asian Summer Monsoon in Four Operational and Research Models*. Journal of Climate, 2013, 26, 4186-4203. | 3.2 | 46 |
| 79 | Effects of intraseasonal oscillation on South China Sea summer monsoon onset. Climate Dynamics, 2018, 51, 2543-2558. | 3.8 | 46 |
| 80 | Development of Climate and Earth System Models in China: Past Achievements and New CMIP6 Results. Journal of Meteorological Research, 2020, 34, 1-19. | 2.4 | 46 |
| 81 | Community Integrated Earth System Model (CIESM): Description and Evaluation. Journal of Advances in Modeling Earth Systems, 2020, 12, e2019MS002036. | 3.8 | 44 |
| 82 | Future Change of Northern Hemisphere Summer Tropicalâ€Extratropical Teleconnection in CMIP5 Models*. Journal of Climate, 2014, 27, 3643-3664. | 3.2 | 43 |
| 83 | Improvements in climate simulation with modifications to the Tiedtke convective parameterization in the grid-point atmospheric model of IAP LASG (GAMIL). Advances in Atmospheric Sciences, 2007, 24, 323-335. | 4.3 | 42 |
| 84 | Coupled model simulations of climate changes in the 20th century and beyond. Advances in Atmospheric Sciences, 2008, 25, 641-654. | 4.3 | 41 |
| 85 | Local structure-preserving algorithms for partial differential equations. Science in China Series A: Mathematics, 2008, 51, 2115-2136. | 0.5 | 41 |
| 86 | Reduction of the thermocline feedback associated with mean SST bias in ENSO simulation. Climate Dynamics, 2012, 39, 1413-1430. | 3.8 | 41 |
| 87 | How are heat waves over Yangtze River valley associated with atmospheric quasi-biweekly oscillation?. Climate Dynamics, 2018, 51, 4421-4437. | 3.8 | 41 |
| 88 | A fast version of LASG/IAP climate system model and its 1000-year control integration. Advances in Atmospheric Sciences, 2008, 25, 655-672. | 4.3 | 39 |
| 89 | MJO Propagation Shaped by Zonal Asymmetric Structures: Results from 24 GCM Simulations. Journal of Climate, 2017, 30, 7933-7952. | 3.2 | 39 |
| 90 | Disproportionate control on aerosol burden by light rain. Nature Geoscience, 2021, 14, 72-76. | 12.9 | 39 |

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| 91 | Mechanisms of the decadal variability of monsoon rainfall in the southern Tibetan Plateau. Environmental Research Letters, 2021, 16, 014011. | 5.2 | 39 |
| 92 | Daily to submonthly weather and climate characteristics of the summer 1998 extreme rainfall over the Yangtze River Basin. Journal of Geophysical Research, 2008, 113, . | 3.3 | 37 |
| 93 | Moisture Sources for Wintertime Extreme Precipitation Events Over South China During 1979â€“2013. Journal of Geophysical Research D: Atmospheres, 2018, 123, 6690-6712. | 3.3 | 36 |
| 94 | Versions g1.0 and g1.1 of the LASG/IAP Flexible Global Ocean-Atmosphere-Land System model. Advances in Atmospheric Sciences, 2011, 28, 99-117. | 4.3 | 34 |
| 95 | Hydrological issues in lateral boundary conditions for regional climate modeling: simulation of east asian summer monsoon in 1998. Climate Dynamics, 2008, 31, 477-490. | 3.8 | 33 |
| 96 | Fidelity of the Observational/Reanalysis Datasets and Global Climate Models in Representation of Extreme Precipitation in East China. Journal of Climate, 2019, 32, 195-212. | 3.2 | 32 |
| 97 | CAS FGOALS-g3 Model Datasets for the CMIP6 Scenario Model Intercomparison Project (ScenarioMIP). Advances in Atmospheric Sciences, 2020, 37, 1081-1092. | 4.3 | 31 |
| 98 | Reduction of systematic biases in regional climate downscaling through ensemble forcing. Climate Dynamics, 2012, 38, 655-665. | 3.8 | 30 |
| 99 | Roles of Synoptic to Quasi-Biweekly Disturbances in Generating the Summer 2003 Heavy Rainfall in East China. Monthly Weather Review, 2014, 142, 886-904. | 1.4 | 30 |
| 100 | A possible mechanism for the occurrence of wintertime extreme precipitation events over South China. Climate Dynamics, 2019, 52, 2367-2384. | 3.8 | 30 |
| 101 | Conditional Nonlinear Optimal Perturbations: Adjoint-Free Calculation Method and Preliminary Test. Monthly Weather Review, 2010, 138, 1043-1049. | 1.4 | 29 |
| 102 | On the Non-Stationary Relationship between the Siberian High and Arctic Oscillation. PLoS ONE, 2016, 11, e0158122. | 2.5 | 29 |
| 103 | Predictable patterns of the Mayâ€“June rainfall anomaly over East Asia. Journal of Geophysical Research D: Atmospheres, 2017, 122, 2203-2217. | 3.3 | 28 |
| 104 | Improved track forecasting of a typhoon reaching landfall from four-dimensional variational data assimilation of AMSU-A retrieved data. Journal of Geophysical Research, 2005, 110, n/a-n/a. | 3.3 | 27 |
| 105 | The Role of Moist Processes in Shortwave Radiative Feedback during ENSO in the CMIP5 Models. Journal of Climate, 2015, 28, 9892-9908. | 3.2 | 27 |
| 106 | Characterizing two types of transient intraseasonal oscillations in the Eastern Tibetan Plateau summer rainfall. Climate Dynamics, 2017, 48, 1749-1768. | 3.8 | 27 |
| 107 | High-order multi-symplectic schemes for the nonlinear Kleinâ€“Gordon equation. Applied Mathematics and Computation, 2005, 166, 608-632. | 2.2 | 26 |
| 108 | Prediction of Meiyu rainfall in Taiwan by multi-lead physicalâ€“empirical models. Climate Dynamics, 2015, 44, 3033-3042. | 3.8 | 26 |

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| 109 | Impact of horizontal resolution on the regional climate simulations of the summer 1998 extreme rainfall along the Yangtze River Basin. Journal of Geophysical Research, 2010, 115, . | 3.3 | 25 |
| 110 | Possible mechanisms for four regimes associated with cold events over East Asia. Climate Dynamics, 2018, 51, 35-56. | 3.8 | 25 |
| 111 | C-Coupler2: a flexible and user-friendly community coupler for model coupling and nesting. Geoscientific Model Development, 2018, 11, 3557-3586. | 3.6 | 25 |
| 112 | Comparison of Local and Nonlocal Observation Operators for the Assimilation of GPS RO Data with the NCEP GSI System: An OSSE Study. Monthly Weather Review, 2009, 137, 3575-3587. | 1.4 | 24 |
| 113 | The Role of Nonconvective Condensation Processes in Response of Surface Shortwave Cloud Radiative Forcing to El NiÃ±o Warming. Journal of Climate, 2014, 27, 6721-6736. | 3.2 | 24 |
| 114 | Major modes of short-term climate variability in the newly developed NUIST Earth System Model (NESM). Advances in Atmospheric Sciences, 2015, 32, 585-600. | 4.3 | 24 |
| 115 | Reduction of initial shock in decadal predictions using a new initialization strategy. Geophysical Research Letters, 2017, 44, 8538-8547. | 4.0 | 24 |
| 116 | Tropospheric aerosol size distributions simulated by three online global aerosol models using the M7 microphysics module. Atmospheric Chemistry and Physics, 2010, 10, 6409-6434. | 4.9 | 23 |
| 117 | What caused the cool summer over northern Central Asia, East Asia and central North America during 2009?. Environmental Research Letters, 2012, 7, 044015. | 5.2 | 22 |
| 118 | Assessment of the longâ€lead probabilistic prediction for the Asian summer monsoon precipitation (1983â€“2011) based on the APCC multimodel system and a statistical model. Journal of Geophysical Research, 2012, 117, . | 3.3 | 22 |
| 119 | A Modeling Study of a Low-Level Jet along the Yun-Gui Plateau in South China. Journal of Applied Meteorology and Climatology, 2016, 55, 41-60. | 1.5 | 22 |
| 120 | How predictable is the winter extremely cold days over temperate East Asia?. Climate Dynamics, 2017, 48, 2557-2568. | 3.8 | 22 |
| 121 | Predictability and prediction of summer rainfall in the arid and semi-arid regions of China. Climate Dynamics, 2017, 49, 419-431. | 3.8 | 22 |
| 122 | Impacts of external forcing on the 20th century global warming. Science Bulletin, 2007, 52, 3148-3154. | 1.7 | 21 |
| 123 | Long-Lead Seasonal Prediction of China Summer Rainfall Using an EOFâ€“PLS Regression-Based Methodology*,+. Journal of Climate, 2016, 29, 1783-1796. | 3.2 | 21 |
| 124 | A single ice approach using varying ice particle properties in global climate model microphysics. Journal of Advances in Modeling Earth Systems, 2017, 9, 2138-2157. | 3.8 | 21 |
| 125 | Double Trouble of Air Pollution by Anthropogenic Dust. Environmental Science & Technology, 2022, 56, 761-769. | 10.0 | 21 |
| 126 | Numerical implementation of the multisymplectic Preissman scheme and its equivalent schemes. Applied Mathematics and Computation, 2004, 149, 299-326. | 2.2 | 20 |

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| 127 | Global Airâ€“Sea CO2 Flux in 22 CMIP5 Models: Multiyear Mean and Interannual Variability*. Journal of Climate, 2016, 29, 2407-2431. | 3.2 | 20 |
| 128 | Simulation and evaluation of terrestrial ecosystem NPP with M-SDGVM over continental China. Advances in Atmospheric Sciences, 2010, 27, 427-442. | 4.3 | 19 |
| 129 | Advances in low-level jet research and future prospects. Journal of Meteorological Research, 2014, 28, 57-75. | 1.0 | 19 |
| 130 | Summer precipitation anomalies in Asia and North America induced by Eurasian non-monsoon land heating versus ENSO. Scientific Reports, 2016, 6, 21346. | 3.3 | 19 |
| 131 | On the Formation Mechanism for Wintertime Extreme Precipitation Events Over the Southeastern Tibetan Plateau. Journal of Geophysical Research D: Atmospheres, 2018, 123, 12,692. | 3.3 | 19 |
| 132 | The FGOALS climate system model as a modeling tool for supporting climate sciences: An overview. Earth and Planetary Physics, 2018, 2, 276-291. | 1.1 | 19 |
| 133 | Assimilation of GPS Radio Occultation Data for an Intense Atmospheric River with the NCEP Regional GSI System. Monthly Weather Review, 2011, 139, 2170-2183. | 1.4 | 18 |
| 134 | Preliminary evaluations of FGOALS-g2 for decadal predictions. Advances in Atmospheric Sciences, 2013, 30, 674-683. | 4.3 | 18 |
| 135 | A potential vorticityâ€based index for the East Asian winter monsoon. Journal of Geophysical Research D: Atmospheres, 2016, 121, 9382-9399. | 3.3 | 18 |
| 136 | Significant Land Contributions to Interannual Predictability of East Asian Summer Monsoon Rainfall. Earth's Future, 2021, 9, e2020EF001762. | 6.3 | 18 |
| 137 | A new method for judging the computational stability of the difference schemes of nonlinear evolution equations. Science Bulletin, 2000, 45, 1358-1361. | 1.7 | 17 |
| 138 | On the retrieval of sea ice thickness and snow depth usingÂconcurrent laser altimetry and L-band remoteÂsensingÂdata. Cryosphere, 2018, 12, 993-1012. | 3.9 | 17 |
| 139 | New multisymplectic self-adjoint scheme and its composition scheme for the time-domain Maxwellâ€™s equations. Journal of Mathematical Physics, 2006, 47, 123508. | 1.1 | 16 |
| 140 | A Comparison of Two Tropical Cyclone Bogussing Schemes. Weather and Forecasting, 2008, 23, 194-204. | 1.4 | 16 |
| 141 | Synoptic Conditions and Moisture Sources for Extreme Snowfall Events Over East China. Journal of Geophysical Research D: Atmospheres, 2019, 124, 601-623. | 3.3 | 16 |
| 142 | Contrasting influences of biogeophysical and biogeochemical impacts of historical land use on global economic inequality. Nature Communications, 2022, 13, 2479. | 12.8 | 16 |
| 143 | A comparative analysis of computational stability for linear and non-linear evolution equations. Advances in Atmospheric Sciences, 2002, 19, 699-704. | 4.3 | 15 |
| 144 | Consistency problem with tracer advection in the Atmospheric Model GAMIL. Advances in Atmospheric Sciences, 2008, 25, 306-318. | 4.3 | 15 |

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| 145 | Reducing biases in regional climate downscaling by applying Bayesian model averaging on large-scale forcing. Climate Dynamics, 2012, 39, 2523-2532. | 3.8 | 15 |
| 146 | Exploring the combined effects of the Arctic Oscillation and ENSO on the wintertime climate over East Asia using selfâ€organizing maps. Journal of Geophysical Research D: Atmospheres, 2017, 122, 9107-9129. | 3.3 | 15 |
| 147 | A fast input/output library for high-resolution climate models. Geoscientific Model Development, 2014, 7, 93-103. | 3.6 | 15 |
| 148 | Season-Dependent Forecast Skill of the Leading Forced Atmospheric Circulation Pattern over the North Pacific and North American Region*. Journal of Climate, 2012, 25, 7248-7265. | 3.2 | 14 |
| 149 | Potential vorticity regimes over East Asia during winter. Journal of Geophysical Research D: Atmospheres, 2017, 122, 1524-1544. | 3.3 | 14 |
| 150 | A robust equatorial Pacific westerly response to tropical volcanism in multiple models. Climate Dynamics, 2020, 55, 3413-3429. | 3.8 | 14 |
| 151 | The GAMIL3: Model Description and Evaluation. Journal of Geophysical Research D: Atmospheres, 2020, 125, e2020JD032574. | 3.3 | 13 |
| 152 | Numerical simulation of an unsaturated flow equation. Science in China Series D: Earth Sciences, 1998, 41, 429-436. | 0.9 | 12 |
| 153 | Parallel computing of a variational data assimilation model for GPS/MET observation using the ray-tracing method. Advances in Atmospheric Sciences, 2004, 21, 220-226. | 4.3 | 12 |
| 154 | Aerosol Indirect Effects on Warm Clouds in the Grid-Point Atmospheric Model of IAP LASG (GAMIL). Atmospheric and Oceanic Science Letters, 2010, 3, 237-241. | 1.3 | 12 |
| 155 | Evaluating the Performances of GAMIL1.0 and GAMIL2.0 during TWPICE with CAPT. Atmospheric and Oceanic Science Letters, 2012, 5, 38-42. | 1.3 | 12 |
| 156 | Trajectory-Tracking Scheme in Lagrangian Form for Solving Linear Advection Problems: Preliminary Tests. Monthly Weather Review, 2012, 140, 650-663. | 1.4 | 12 |
| 157 | Comparison of three ice cloud optical schemes in climate simulations with community atmospheric model version 5. Atmospheric Research, 2018, 204, 37-53. | 4.1 | 12 |
| 158 | Dynamics-oriented diagnostics for the Madden-Julian Oscillation. Journal of Climate, 2018, , . | 3.2 | 12 |
| 159 | Impacts of Changes of External Forcings from CMIP5 to CMIP6 on Surface Temperature in FGOALS-g2. Scientific Online Letters on the Atmosphere, 2019, 15, 211-215. | 1.4 | 12 |
| 160 | Performance of a reconfigured atmospheric general circulation model at low resolution. Advances in Atmospheric Sciences, 2007, 24, 712-728. | 4.3 | 11 |
| 161 | Sensitivity of the carbon storage of potential vegetation to historical climate variability and CO2 in continental China. Advances in Atmospheric Sciences, 2009, 26, 87-100. | 4.3 | 11 |
| 162 | Boreal Summer Intraseasonal Phases Identified by Nonlinear Multivariate Empirical Orthogonal Functionâ€“Based Self-Organizing Map (ESOM) Analysis. Journal of Climate, 2017, 30, 3513-3528. | 3.2 | 11 |

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| 163 | Assessment of Responses of Tropical Pacific Airâ€“Sea CO<sub>2</sub> Flux to ENSO in 14 CMIP5 Models. Journal of Climate, 2017, 30, 8595-8613. | 3.2 | 11 |
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