

Rong-Hua Zhang

List of Publications by Year in descending order

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110
papers

3,093
citations

159525

30
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189801

50
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113
all docs

113
docs citations

113
times ranked

1464
citing authors

| # | ARTICLE | IF | CITATIONS |
|----|--|-----|-----------|
| 1 | An ocean modeling study to quantify wind forcing and oceanic mixing effects on the tropical North Pacific subsurface warm bias in CMIP and OMIP simulations. <i>Climate Dynamics</i> , 2022, 58, 999-1014. | 1.7 | 1 |
| 2 | Subsurface warm biases in the tropical Atlantic and their attributions to the role of wind forcing and ocean vertical mixing. <i>Journal of Climate</i> , 2022, , 1-28. | 1.2 | 2 |
| 3 | Zonal Structure of Tropical Pacific Surface Salinity Anomalies Affects ENSO Intensity and Asymmetry. <i>Geophysical Research Letters</i> , 2022, 49, . | 1.5 | 5 |
| 4 | Structure and Evolution of Decadal Spiciness Variability in the North Pacific during 2004â€“20, Revealed from Argo Observations. <i>Advances in Atmospheric Sciences</i> , 2022, 39, 953-966. | 1.9 | 3 |
| 5 | A Hybrid Neural Network Model for ENSO Prediction in Combination with Principal Oscillation Pattern Analyses. <i>Advances in Atmospheric Sciences</i> , 2022, 39, 889-902. | 1.9 | 19 |
| 6 | Recent ENSO evolution and its real-time prediction challenges. <i>National Science Review</i> , 2022, 9, nwac052. | 4.6 | 35 |
| 7 | Effects of Temperature and Salinity on Surface Currents in the Equatorial Pacific. <i>Journal of Geophysical Research: Oceans</i> , 2022, 127, . | 1.0 | 2 |
| 8 | Interannualâ€“toâ€“Decadal Variations of Particulate Organic Carbon and the Contribution of Phytoplankton in the Tropical Pacific During 1981â€“2016: A Model Study. <i>Journal of Geophysical Research: Oceans</i> , 2021, 126, . | 1.0 | 5 |
| 9 | Mesoscale wind stress-SST coupling induced feedback to the ocean in the western coast of South America. <i>Journal of Oceanology and Limnology</i> , 2021, 39, 785-799. | 0.6 | 2 |
| 10 | Coupling oceanâ€“atmosphere intensity determines ocean chlorophyll-induced SST change in the tropical Pacific. <i>Climate Dynamics</i> , 2021, 56, 3775-3795. | 1.7 | 2 |
| 11 | The Thermocline Biases in the Tropical North Pacific and Their Attributions. <i>Journal of Climate</i> , 2021, 34, 1635-1648. | 1.2 | 10 |
| 12 | Indian Ocean warming as a potential trigger for super phytoplankton blooms in the eastern equatorial Pacific from El NiÃ±o to La NiÃ±a transitions. <i>Environmental Research Letters</i> , 2021, 16, 054040. | 2.2 | 12 |
| 13 | Sea surface salinity-derived indexes for distinguishing two types of El NiÃ±o events in the tropical Pacific. <i>Science China Earth Sciences</i> , 2021, 64, 1267-1284. | 2.3 | 6 |
| 14 | Rectified Effects of Interannual Chlorophyll Variability on the Tropical Pacific Climate Revealed by a Hybrid Coupled Physicsâ€“Biology Model. <i>Journal of Geophysical Research: Oceans</i> , 2021, 126, e2021JC017263. | 1.0 | 5 |
| 15 | On the Second-Year Warming in Late 2019 over the Tropical Pacific and Its Attribution to an Indian Ocean Dipole Event. <i>Advances in Atmospheric Sciences</i> , 2021, 38, 2153-2166. | 1.9 | 6 |
| 16 | Mesoscale Surface Windâ€“SST Coupling in a Highâ€“Resolution CESM Over the KE and ARC Regions. <i>Journal of Advances in Modeling Earth Systems</i> , 2021, 13, e2021MS002822. | 1.3 | 6 |
| 17 | Representing surface wind stress response to mesoscale SST perturbations in western coast of South America using Tikhonov regularization method. <i>Journal of Oceanology and Limnology</i> , 2020, 38, 679-694. | 0.6 | 3 |
| 18 | Purely satellite dataâ€“driven deep learning forecast of complicated tropical instability waves. <i>Science Advances</i> , 2020, 6, eaba1482. | 4.7 | 122 |

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|----|--|-----|-----------|
| 19 | Interannual Salinity Variability Associated With the Central Pacific and Eastern Pacific El Niño±s in the Tropical Pacific. <i>Journal of Geophysical Research: Oceans</i> , 2020, 125, e2020JC016090. | 1.0 | 13 |
| 20 | Roles of Wind Stress and Subsurface Cold Water in the Second-Year Cooling of the 2017/18 La Niña±a Event. <i>Advances in Atmospheric Sciences</i> , 2020, 37, 847-860. | 1.9 | 9 |
| 21 | A review of progress in coupled ocean-atmosphere model developments for ENSO studies in China. <i>Journal of Oceanology and Limnology</i> , 2020, 38, 930-961. | 0.6 | 62 |
| 22 | Effects on Ocean Biology Induced by El Niño±o±Accompanied Positive Freshwater Flux Anomalies in the Tropical Pacific. <i>Journal of Geophysical Research: Oceans</i> , 2020, 125, e2019JC015790. | 1.0 | 4 |
| 23 | Separating freshwater flux effects on ENSO in a hybrid coupled model of the tropical Pacific. <i>Climate Dynamics</i> , 2020, 54, 4605-4626. | 1.7 | 18 |
| 24 | North Pacific Upper-Ocean Cold Temperature Biases in CMIP6 Simulations and the Role of Regional Vertical Mixing. <i>Journal of Climate</i> , 2020, 33, 7523-7538. | 1.2 | 24 |
| 25 | Model parameter-related optimal perturbations and their contributions to El Niño±o prediction errors. <i>Climate Dynamics</i> , 2019, 52, 1425-1441. | 1.7 | 15 |
| 26 | Observed structural relationships between ocean chlorophyll variability and its heating effects on the ENSO. <i>Climate Dynamics</i> , 2019, 53, 5165-5186. | 1.7 | 11 |
| 27 | Effects of Salinity Variability on Recent El Niño±o Events. <i>Atmosphere</i> , 2019, 10, 475. | 1.0 | 16 |
| 28 | The Optimal Precursors for ENSO Events Depicted Using the Gradient-definition-based Method in an Intermediate Coupled Model. <i>Advances in Atmospheric Sciences</i> , 2019, 36, 1381-1392. | 1.9 | 7 |
| 29 | Mesoscale wind stress-SST coupled perturbations in the Kuroshio Extension. <i>Progress in Oceanography</i> , 2019, 172, 108-123. | 1.5 | 1 |
| 30 | A Hybrid Coupled Ocean-Atmosphere Model and Its Simulation of ENSO and Atmospheric Responses. <i>Advances in Atmospheric Sciences</i> , 2019, 36, 643-657. | 1.9 | 4 |
| 31 | Factors affecting interdecadal variability of air±sea CO2 fluxes in the tropical Pacific, revealed by an ocean physical±biogeochemical model. <i>Climate Dynamics</i> , 2019, 53, 3985-4004. | 1.7 | 4 |
| 32 | Roles of different physical processes in upper ocean responses to Typhoon Rammasun (2008)-induced wind forcing. <i>Science China Earth Sciences</i> , 2019, 62, 684-692. | 2.3 | 4 |
| 33 | Interannual Salinity Variability in the Tropical Pacific in CMIP5 Simulations. <i>Advances in Atmospheric Sciences</i> , 2019, 36, 378-396. | 1.9 | 14 |
| 34 | Mesoscale SST perturbation-induced impacts on climatological precipitation in the Kuroshio-Oyashio extension region, as revealed by the WRF simulations. <i>Journal of Oceanology and Limnology</i> , 2019, 37, 385-397. | 0.6 | 6 |
| 35 | Freshwater Flux and Ocean Chlorophyll Produce Nonlinear Feedbacks in the Tropical Pacific. <i>Journal of Climate</i> , 2019, 32, 2037-2055. | 1.2 | 17 |
| 36 | A Positive Feedback Onto ENSO Due to Tropical Instability Wave (TIW)±Induced Chlorophyll Effects in the Pacific. <i>Geophysical Research Letters</i> , 2019, 46, 889-897. | 1.5 | 14 |

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|----|--|-----|-----------|
| 37 | A Modified Vertical Mixing Parameterization for Its Improved Ocean and Coupled Simulations in the Tropical Pacific. <i>Journal of Physical Oceanography</i> , 2019, 49, 21-37. | 0.7 | 24 |
| 38 | An Argo- ϵ Derived Background Diffusivity Parameterization for Improved Ocean Simulations in the Tropical Pacific. <i>Geophysical Research Letters</i> , 2018, 45, 1509-1517. | 1.5 | 30 |
| 39 | An improved simulation of the 2015 El Niño event by optimally correcting the initial conditions and model parameters in an intermediate coupled model. <i>Climate Dynamics</i> , 2018, 51, 269-282. | 1.7 | 9 |
| 40 | Estimating Convection Parameters in the GFDL CM2.1 Model Using Ensemble Data Assimilation. <i>Journal of Advances in Modeling Earth Systems</i> , 2018, 10, 989-1010. | 1.3 | 10 |
| 41 | Scaling wind stirring effects in an oceanic bulk mixed layer model with application to an OGCM of the tropical Pacific. <i>Climate Dynamics</i> , 2018, 51, 1927-1946. | 1.7 | 10 |
| 42 | Ocean Chlorophyll-Induced Heating Feedbacks on ENSO in a Coupled Ocean Physics-Biology Model Forced by Prescribed Wind Anomalies. <i>Journal of Climate</i> , 2018, 31, 1811-1832. | 1.2 | 21 |
| 43 | ENSO Predictions in an Intermediate Coupled Model Influenced by Removing Initial Condition Errors in Sensitive Areas: A Target Observation Perspective. <i>Advances in Atmospheric Sciences</i> , 2018, 35, 853-867. | 1.9 | 14 |
| 44 | Progress in ENSO prediction and predictability study. <i>National Science Review</i> , 2018, 5, 826-839. | 4.6 | 151 |
| 45 | A Coupled Ocean Physics-Biology Modeling Study on Tropical Instability Wave-Induced Chlorophyll Impacts in the Pacific. <i>Journal of Geophysical Research: Oceans</i> , 2018, 123, 5160-5179. | 1.0 | 14 |
| 46 | Idealized Experiments for Optimizing Model Parameters Using a 4D-Variational Method in an Intermediate Coupled Model of ENSO. <i>Advances in Atmospheric Sciences</i> , 2018, 35, 410-422. | 1.9 | 15 |
| 47 | A New Hybrid Coupled Model of Atmosphere, Ocean Physics, and Ocean Biogeochemistry to Represent Biogeophysical Feedback Effects in the Tropical Pacific. <i>Journal of Advances in Modeling Earth Systems</i> , 2018, 10, 1901-1923. | 1.3 | 24 |
| 48 | The roles of atmospheric wind and entrained water temperature (T_e) in the second-year cooling of the 2010-12 La Niña event. <i>Climate Dynamics</i> , 2017, 48, 597-617. | 1.7 | 44 |
| 49 | Initial error-induced optimal perturbations in ENSO predictions, as derived from an intermediate coupled model. <i>Advances in Atmospheric Sciences</i> , 2017, 34, 791-803. | 1.9 | 20 |
| 50 | Effects of different freshwater flux representations in an ocean general circulation model of the tropical Pacific. <i>Science Bulletin</i> , 2017, 62, 345-351. | 4.3 | 18 |
| 51 | Mesoscale wind stress-SST coupling in the Kuroshio extension and its effect on the ocean. <i>Journal of Oceanography</i> , 2017, 73, 785-798. | 0.7 | 14 |
| 52 | An improved ENSO simulation by representing chlorophyll-induced climate feedback in the NCAR Community Earth System Model. <i>Scientific Reports</i> , 2017, 7, 17123. | 1.6 | 33 |
| 53 | A modulating effect of tropical instability wave (TIW)-induced surface wind feedback in a hybrid coupled model of the tropical Pacific. <i>Journal of Geophysical Research: Oceans</i> , 2016, 121, 7326-7353. | 1.0 | 12 |
| 54 | Testing a four-dimensional variational data assimilation method using an improved intermediate coupled model for ENSO analysis and prediction. <i>Advances in Atmospheric Sciences</i> , 2016, 33, 875-888. | 1.9 | 24 |

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|----|--|-----|-----------|
| 55 | ENSO Modulations due to Interannual Variability of Freshwater Forcing and Ocean Biology-induced Heating in the Tropical Pacific. <i>Scientific Reports</i> , 2016, 5, 18506. | 1.6 | 31 |
| 56 | Assessment of interannual sea surface salinity variability and its effects on the barrier layer in the equatorial Pacific using BNU-ESM. <i>Advances in Atmospheric Sciences</i> , 2016, 33, 339-351. | 1.9 | 5 |
| 57 | The IOCAS intermediate coupled model (IOCAS ICM) and its real-time predictions of the 2015â€“2016 El NiÃ±o event. <i>Science Bulletin</i> , 2016, 61, 1061-1070. | 4.3 | 70 |
| 58 | Role of subsurface entrainment temperature (T_e) in the onset of El NiÃ±o events, as represented in an intermediate coupled model. <i>Climate Dynamics</i> , 2016, 46, 1417-1435. | 1.7 | 12 |
| 59 | Quantitative analysis of the feedback induced by the freshwater flux in the tropical Pacific using CMIP5. <i>Advances in Atmospheric Sciences</i> , 2015, 32, 1341-1353. | 1.9 | 9 |
| 60 | An oceanâ€“biologyâ€“induced negative feedback on ENSO as derived from a hybrid coupled model of the tropical Pacific. <i>Journal of Geophysical Research: Oceans</i> , 2015, 120, 8052-8076. | 1.0 | 17 |
| 61 | Processes leading to second-year cooling of the 2010â€“12 La NiÃ±a event, diagnosed using GODAS. <i>Advances in Atmospheric Sciences</i> , 2015, 32, 424-438. | 1.9 | 13 |
| 62 | A hybrid coupled model for the pacific ocean-atmosphere system. Part I: Description and basic performance. <i>Advances in Atmospheric Sciences</i> , 2015, 32, 301-318. | 1.9 | 15 |
| 63 | Structure and effect of ocean biology-induced heating (OBH) in the tropical Pacific, diagnosed from a hybrid coupled model simulation. <i>Climate Dynamics</i> , 2015, 44, 695-715. | 1.7 | 18 |
| 64 | Interannually varying salinity effects on ENSO in the tropical pacific: a diagnostic analysis from Argo. <i>Ocean Dynamics</i> , 2015, 65, 691-705. | 0.9 | 37 |
| 65 | Simulation of salinity variability and the related freshwater flux forcing in the tropical Pacific: An evaluation using the Beijing normal university earth system model (BNU-ESM). <i>Advances in Atmospheric Sciences</i> , 2015, 32, 1551-1564. | 1.9 | 4 |
| 66 | Effects of tropical instability wave (TIW)-induced surface wind feedback in the tropical Pacific Ocean. <i>Climate Dynamics</i> , 2014, 42, 467-485. | 1.7 | 28 |
| 67 | Impact of tropical instability wavesâ€“induced SST forcing on the atmosphere in the tropical Pacific, evaluated using CAM5.1. <i>Atmospheric Science Letters</i> , 2014, 15, 186-194. | 0.8 | 3 |
| 68 | Effects of interannual salinity variability on the barrier layer in the western-central equatorial Pacific: A diagnostic analysis from Argo. <i>Advances in Atmospheric Sciences</i> , 2014, 31, 532-542. | 1.9 | 39 |
| 69 | Sensitivity of ENSO variability to Pacific freshwater flux adjustment in the Community Earth System Model. <i>Advances in Atmospheric Sciences</i> , 2014, 31, 1009-1021. | 1.9 | 15 |
| 70 | Salinity anomaly as a trigger for ENSO events. <i>Scientific Reports</i> , 2014, 4, 6821. | 1.6 | 92 |
| 71 | Improving ENSO prediction in a hybrid coupled model with an embedded entrainment temperature parameterisation. <i>International Journal of Climatology</i> , 2013, 33, 343-355. | 1.5 | 22 |
| 72 | A successful real-time forecast of the 2010â€“11 La NiÃ±a event. <i>Scientific Reports</i> , 2013, 3, . | 1.6 | 55 |

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|----|--|-----|-----------|
| 73 | Using Satellite Data to Represent Tropical Instability Waves (TIWs)-Induced Wind for Ocean Modeling: A Negative Feedback onto TIW Activity in the Pacific. <i>Remote Sensing</i> , 2013, 5, 2660-2687. | 1.8 | 3 |
| 74 | Effects of interannual salinity variability and freshwater flux forcing on the development of the 2007/08 La Niña event diagnosed from Argo and satellite data. <i>Dynamics of Atmospheres and Oceans</i> , 2012, 57, 45-57. | 0.7 | 41 |
| 75 | Ensemble ENSO hindcasts initialized from multiple ocean analyses. <i>Geophysical Research Letters</i> , 2012, 39, . | 1.5 | 73 |
| 76 | Modulation of El Niño-Southern Oscillation by freshwater flux and salinity variability in the tropical Pacific. <i>Advances in Atmospheric Sciences</i> , 2012, 29, 647-660. | 1.9 | 44 |
| 77 | Impact of sea surface salinity assimilation on coupled forecasts in the tropical Pacific. <i>Journal of Geophysical Research</i> , 2011, 116, . | 3.3 | 43 |
| 78 | Using Satellite Ocean Color Data to Derive an Empirical Model for the Penetration Depth of Solar Radiation (Hp) in the Tropical Pacific Ocean. <i>Journal of Atmospheric and Oceanic Technology</i> , 2011, 28, 944-965. | 0.5 | 22 |
| 79 | Interannual Biases Induced by Freshwater Flux and Coupled Feedback in the Tropical Pacific. <i>Monthly Weather Review</i> , 2010, 138, 1715-1737. | 0.5 | 22 |
| 80 | Ensemble hindcasts of ENSO events over the past 120 years using a large number of ensembles. <i>Advances in Atmospheric Sciences</i> , 2009, 26, 359-372. | 1.9 | 51 |
| 81 | Role of ocean biology-induced climate feedback in the modulation of El Niño-Southern Oscillation. <i>Geophysical Research Letters</i> , 2009, 36, . | 1.5 | 31 |
| 82 | An Empirical Model for Surface Wind Stress Response to SST Forcing Induced by Tropical Instability Waves (TIWs) in the Eastern Equatorial Pacific. <i>Monthly Weather Review</i> , 2009, 137, 2021-2046. | 0.5 | 21 |
| 83 | Freshwater Flux (FWF)-Induced Oceanic Feedback in a Hybrid Coupled Model of the Tropical Pacific. <i>Journal of Climate</i> , 2009, 22, 853-879. | 1.2 | 72 |
| 84 | Rectified effects of tropical instability wave (TIW)-induced atmospheric wind feedback in the tropical Pacific. <i>Geophysical Research Letters</i> , 2008, 35, . | 1.5 | 46 |
| 85 | The Roles of Atmospheric Stochastic Forcing (SF) and Oceanic Entrainment Temperature (Te) in Decadal Modulation of ENSO. <i>Journal of Climate</i> , 2008, 21, 674-704. | 1.2 | 33 |
| 86 | Impact of altimetry data on ENSO ensemble initializations and predictions. <i>Geophysical Research Letters</i> , 2007, 34, . | 1.5 | 45 |
| 87 | An empirical parameterization for the salinity of subsurface water entrained into the ocean mixed layer (Se) in the tropical Pacific. <i>Geophysical Research Letters</i> , 2006, 33, . | 1.5 | 6 |
| 88 | Ensemble hindcasts of SST anomalies in the tropical Pacific using an intermediate coupled model. <i>Geophysical Research Letters</i> , 2006, 33, . | 1.5 | 79 |
| 89 | Improving SST Anomaly Simulations in a Layer Ocean Model with an Embedded Entrainment Temperature Submodel. <i>Journal of Climate</i> , 2006, 19, 4638-4663. | 1.2 | 24 |
| 90 | Improved ENSO forecasts by assimilating sea surface temperature observations into an intermediate coupled model. <i>Advances in Atmospheric Sciences</i> , 2006, 23, 615-624. | 1.9 | 20 |

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|-----|--|------|-----------|
| 91 | Retrospective El Niño Forecasts Using an Improved Intermediate Coupled Model. <i>Monthly Weather Review</i> , 2005, 133, 2777-2802. | 0.5 | 71 |
| 92 | An Empirical Parameterization of Subsurface Entrainment Temperature for Improved SST Anomaly Simulations in an Intermediate Ocean Model. <i>Journal of Climate</i> , 2005, 18, 350-371. | 1.2 | 38 |
| 93 | Interdecadal Change in Properties of El Niño–Southern Oscillation in an Intermediate Coupled Model. <i>Journal of Climate</i> , 2005, 18, 1369-1380. | 1.2 | 21 |
| 94 | On the connection between South Pacific subtropical spiciness anomalies and decadal equatorial variability in an ocean general circulation model. <i>Journal of Geophysical Research</i> , 2005, 110, . | 3.3 | 58 |
| 95 | A new approach to improved SST anomaly simulations using altimeter data: Parameterizing entrainment temperature from sea level. <i>Geophysical Research Letters</i> , 2004, 31, n/a-n/a. | 1.5 | 9 |
| 96 | An Embedding Method for Improving Interannual Variability Simulations in a Hybrid Coupled Model of the Tropical Pacific Ocean–Atmosphere System. <i>Journal of Climate</i> , 2004, 17, 2794-2812. | 1.2 | 17 |
| 97 | A new intermediate coupled model for El Niño simulation and prediction. <i>Geophysical Research Letters</i> , 2003, 30, . | 1.5 | 91 |
| 98 | Effect of Penetrating Momentum Flux over the Surface Boundary/Mixed Layer in az-Coordinate OGCM of the Tropical Pacific. <i>Journal of Physical Oceanography</i> , 2002, 32, 3616-3637. | 0.7 | 33 |
| 99 | Subduction of decadal North Pacific thermal anomalies in an ocean GCM. <i>Geophysical Research Letters</i> , 2001, 28, 2449-2452. | 1.5 | 17 |
| 100 | Role of off-equatorial subsurface anomalies in initiating the 1991-1992 El Niño as revealed by the National Centers for Environmental Prediction ocean reanalysis data. <i>Journal of Geophysical Research</i> , 2000, 105, 6327-6339. | 3.3 | 12 |
| 101 | Propagation and mechanism of decadal upper-ocean variability in the North Pacific. <i>Geophysical Research Letters</i> , 1999, 26, 739-742. | 1.5 | 14 |
| 102 | The onset of the 1991-92 El Niño event in the tropical Pacific Ocean: The NECC subsurface pathway. <i>Geophysical Research Letters</i> , 1999, 26, 847-850. | 1.5 | 6 |
| 103 | Origin of upper-ocean warming and El Niño change on decadal scales in the tropical Pacific Ocean. <i>Nature</i> , 1998, 391, 879-883. | 13.7 | 241 |
| 104 | Decadal variability of temperature at a depth of 400 meters in the North Pacific Ocean. <i>Geophysical Research Letters</i> , 1998, 25, 1197-1200. | 1.5 | 4 |
| 105 | A Numerical Simulation of the Mean Water Pathways in the Subtropical and Tropical Pacific Ocean. <i>Journal of Physical Oceanography</i> , 1998, 28, 322-343. | 0.7 | 91 |
| 106 | Structure and Cycle of Decadal Variability of Upper-Ocean Temperature in the North Pacific. <i>Journal of Climate</i> , 1997, 10, 710-727. | 1.2 | 114 |
| 107 | Interannual Variability of the Coupled Tropical Pacific Ocean–Atmosphere System Associated with the El Niño–Southern Oscillation. <i>Journal of Climate</i> , 1997, 10, 1312-1330. | 1.2 | 52 |
| 108 | Structure and evolution of interannual variability of the tropical Pacific upper ocean temperature. <i>Journal of Geophysical Research</i> , 1996, 101, 20501-20524. | 3.3 | 42 |

| # | ARTICLE | IF | CITATIONS |
|-----|--|-----|-----------|
| 109 | Simulation of the 1986–1987 El Niño and 1988 La Niña events with a free surface tropical Pacific Ocean general circulation model. <i>Journal of Geophysical Research</i> , 1994, 99, 7743. | 3.3 | 16 |
| 110 | A design of an oceanic GCM without the rigid lid approximation and its application to the numerical simulation of the circulation of the Pacific Ocean. <i>Journal of Marine Systems</i> , 1991, 1, 271-292. | 0.9 | 9 |