

一、个人简历

1. 个人简况

黄刚，男，1971 年 11 月出生于北京市

现任职务：中国科学院特聘核心研究员，中国科学院大学
岗位教授，中国科学院大气物理研究所研究员（二级）、
博士生导师，国家杰出青年基金获得者(2014)，国家中青年
科技创新领军人才（2016），国家万人计划科技创新领
军人才(2017)

获得学位：理学博士

所学专业：大气动力学、气候动力学

外 语：英语



研究方向

气候动力学、季风动力学、海气相互作用、全球变暖动力学、全球变化与区域响
应、极端气候、气候模式与数值模拟、资料分析、数据库建设及其可视化分析

2. 学历

2000 年 9 月-2001 年 1 月：进入美国国际太平洋研究中心 International Pacific
Research Center (IPRC)博士后研究；美国夏威夷；

1999 年 9 月：获得中国科学院大气物理研究所博士学位；专业：气象学；导师：
叶笃正院士；其博士论文获中国科学院大气物理研究所优秀博士论文；并获全国
优博的提名；

1996 年 7 月：进入中国科学院大气物理研究所攻读硕士学位，因成绩优异提前
攻读博士学位；专业：气象学；导师：叶笃正院士；

1994 年 7 月：毕业于成都气象学院气象系（现改名为成都信息工程大学大气科
学学院），获得学士学位；专业：天气动力学

3. 主要工作经历

2022.5-现在，中科院大气所大气科学人工智能研究中心主任（兼）

2016.4-现在，LASG 国家重点实验室季风与海气团队负责人

2015.9-现在，中国科学院首批特聘研究员

2015.1-现在, 岗位教授, 中国科学院大学

2015.1-现在, 研究员, 博士生导师, 大气科学和地球流体力学数值模拟国家重点实验室 (LASG)

2013.1-2014.9, 兼任中国科学院大气物理研究所淮南研究院副院长, 主管科研

2006.7-2015.1, 研究员, 博士生导师, 中国科学院东亚区域气候-环境重点实验室 (RCE-TEA) (原全球变化东亚区域研究中心), 中国科学院大气物理研究所

2001.12-2006.7, 副研究员, 硕士生导师, 全球变化东亚区域研究中心, 中国科学院大气物理研究所

1999.9-2001.12, 助理研究员, 全球变化东亚区域研究中心, 中国科学院大气物理研究所

出访情况:

2019.10, 高访美国马里兰大学 ESSIC (Earth System Science Interdisciplinary Center)

2018.4, 香港中文大学研究生课程授课

2016.4, 香港中文大学研究生课程授课

2016.1-2016.2, 高访美国 IPRC

2015.12, 高访美国 UCLA 以及 UCSD 的 Scripps 海洋研究所

2015.4, 澳大利亚哥廷科技大学及澳洲气象局高级访问, 并做公众报告

2015.2, 香港中文大学研究生课程授课

2014.3, 香港中文大学研究生课程授课

2013.2, 香港中文大学研究生课程授课

2013.1, 高访英国气象局并参加中国科学院大气物理研究所-英国气象局双边合作讨论会, 英国

2012.11, 高访意大利 ICTP 并作大会报告

2012.6, 香港中文大学研究生课程授课

2011.11, 香港中文大学研究生课程授课

2011.4, 高访澳门地球物理及气象局 (SMG)、香港中文大学和香港城市大学

2010.2-2010.5, 高访美国国际太平洋研究中心(IPRC), COLA, NOAA, 哥伦比亚大学, 美国

2009.8, 高访澳门地球物理及气象局

2009.6, 高访俄罗斯科学院海洋研究所以及圣彼得堡大学和俄罗斯水文气象大学

2007.6-2007.7, 高级访问学者, 英国利物浦大学, 英国

2005.1-2005.7, 高级访问学者, 香港城市大学, 香港

2004.3-2004.6, 高级访问学者, 德国 Max-Planck 气象研究所, 汉堡

2000.9-2001.1, 博士后研究, 美国国际太平洋研究中心(IPRC), 位于美国夏威夷, 期间受杨松博士的邀请访问 NASA/Goddard Space Flight Center 及 University of Maryland

1998.4-1998.5, 访问学者, 韩国釜山大学大气科学系

出访和参加会议的国家和地区: (美国, 日本、韩国、泰国、荷兰、德国、英国、俄罗斯、澳大利亚、意大利、新西兰、斯里兰卡、中国香港、中国台湾和中国澳门)

二、主要科研工作及获奖情况

1. 从事相关研究计划和项目的情况: (其中划线部分为项目负责人或者重点及重大项目课题组长)

1) 已完成的项目

(1) 国家“九五”重中之重科技攻关项目“96-908”项目“我国短期气候预测系统研究”(1996-2000), 为项目骨干。

(2) 中国科学院重大项目“亚洲季风气候变迁与全球变化”(1997-2000), 为项目骨干, 由于工作突出, 追加奖励基金。

(3) “九五”攀登预选项目-我国未来生存环境变化趋势的预测研究(1997-2000), 为项目参加者。

(4) 中国科学院大气物理研究所所创新重点基金“北太平洋和东亚地区十年及年代际气候变化的研究”(1999-2000), 为项目主要参加者。

(5) 中国科学院大气物理研究所面上基金“全球变化背景下亚非季风带演变特征和中国季风变化趋势”(1999-2000), 为项目负责人。

(6) 国家自然科学基金委青年项目“北极海冰对亚洲季风的影响”(2000-2002), 为项目骨干。

(7) 中国科学院知识创新工程重大项目“西部生态环境演变规律与水土资源可持

续利用研究”(2000-2003)(KZCX1-10-07),为项目研究骨干。

(8) 国家重点基础研究发展规划项目“我国生存环境演变和北方干旱化趋势预测研究”(1999-2004),为项目骨干;曾任项目联络人。

(9) 中国科学院大气物理研究所创新基金重大项目“所过渡带对全球变暖的响应和适应研究”(2001-2006),为项目骨干。

(10) 中国科学院知识创新工程重要方向项目---科学数据库及其应用系统-大气科学与环境数据库 NF105-SDB-1-25 (2001.1-2005.12),为项目骨干。

(11) 国家自然科学基金委青年项目“全球变化背景下亚非季风带年代际演变特征和变化趋势-项目编号 40305012”(2004.1-2006.12),为项目负责人。

(12) 中国科学院知识创新工程重要方向项目“南水北调背景下华北地区水资源最优调配的理论研究”(项目编号 KZCX3-SW-218, 2003—2006),为课题负责人。

(13) 南京信息工程大学江苏省气象灾害重点实验室开放课题 KLME0601“舍入误差对气候模式长期积分的影响研究”(2007.1-2008.12),为项目负责人。

(14) 国家重点基础研究发展规划项目“我国南方致洪暴雨监测与预测的理论和研究方法研究(2004-2008),项目编号(2004CB418300),为专题负责人。

(15) 中国科学院知识创新工程大气物理所领域前沿重点项目“计算不确定性原理在气候数值模式中的应用研究”(2007.1-2009.6),为项目骨干。

(16) 中国科学院知识创新工程大气物理所联合创新青年学者计划 IAP07314“太平洋年代际信号通道在亚洲季风和 ENSO 年代际变化关系的作用研究”,(2007.4-2009.4),为项目共同负责人。

(17) 国家重点基础研究发展计划(2006CB400500)“北方干旱化与人类适应”(2006-2010),为项目骨干,专题负责人。

(18) 国家海洋环境预报中心-中国科学院大气物理所联合项目“全球海洋-大气耦合模式的研制”(2008-2010),为项目负责人。

(19) 国家自然科学基金委面上项目“印度洋海温的长期变化对亚非季风系统年代际演变的作用”40775051/D0507,(2008-2010),为项目负责人。

(20) 中国科学院三期创新工程重要方向项目“干旱、半干旱地带陆-气相互作用机理、模型设计及数值模拟研究”,(项目编号 KZCX2-YW-220), (2007-2010),为课题负责人。

- (21) 中国科学院信息化专项项目-大气科学数据库 (INFO-115-C01-SDB4-07), (2009-2010), 为项目骨干。
- (22) 国家基金委重点项目 U0733002“南海海洋环境对我国华南夏季天气气候的响应与影响”(2008-2011), 为课题负责人。
- (23) 国家科技支撑计划项目“中国重大自然灾害风险等级综合评估技术研究”(2008.9-2011.12) 国家科技支撑计划项目 2008BAK50B02,为项目骨干。
- (24) 中国科学院知识创新工程重要方向项目“热带印度洋海盆尺度海温增暖异常及其对东亚夏季气候的影响”(2009-2011), 为课题负责人。
- (25) 国家基金委重大国际合作研究项目“东亚和西北太平洋气候变异及其模拟”(2009-2011), 项目号: 40810059005, 为项目骨干, 专题负责人。
- (26) 军地合作项目“AA 区域数值天气预报系统的建立”(2010-2012), 为项目负责人。
- (27) 国家自然科学基金重大项目“太平洋低纬度西边界环流系统与暖池低频变异研究”(2009-2012), 项目编号: 40890155, 为项目骨干, 专题负责人。
- (28) 公益性行业(气象)科研专项经费项目“西太平洋暖池与近海对东亚季节-年际气候异常的影响”项目编号 GYHY201006021, (2010-2013), 为课题负责人
- (29) 香港 RGC 联合项目““Roles of Tropical Indian and Pacific Oceans in Summertime South China Sea Climate Variability”; co-pi(项目共同负责人); 2013-2015。
- (30) 国家重点基础研究发展计划(973 计划)项目“适应于千万次科学计算的新型计算模式”(课题名称“气候系统模式的高性能算法与应用”课题编号: 2011CB309704)(2011-2015); 为课题副组长。
- (31) 高原大气与环境四川省重点实验室开放课题“青藏高原与热带印度洋热力对比对东亚气候的影响”, 项目编号: PAEKL-2014-K2, 项目负责人; 2014-2015。
- (32) 中国科学院战略性先导科技专项专项“应对气候变化的碳收支认证及相关问题”(项目名称: 过去百年气候增暖及其成因) 课题(子课题)名称“东亚及其邻近地区海陆热力状态的变化及其影响”(2011-2015), 项目编号: XDA 0509 0101, 为项目骨干
- (33) 全球变化研究国家重大科学研究计划“太平洋印度洋对全球变暖的响应及

其对气候变化的调控作用” 项目编号 2012CB955600 (2012-2016) 课题编号 2012CB955604 课题名称 “太平洋印度洋对全球变暖响应不均匀性对东亚气候的影响” 为第四课题组长

(34) 深圳市气象局南方强天气研究重点实验室项目 “全球变暖背景下深圳市暴雨灾害的气候变化特征及其成因分析” (SZQX2015173)，项目负责人，2015-2016

(35) 国家自然科学基金面上项目 “热带印度洋海盆模变化对东亚夏季气候的影响机理及其相关预测技术研究”；项目编号：NSFC41275083；项目负责人；2013-2016

(36) 国家自然科学基金重大研究计划培育项目 “青藏高原和印度洋对东亚夏季风的协同作用”；项目编号：NSFC 91337105；项目负责人；2014-2016

(37) 海洋公益性行业科研专项(201505013) Public science and technology research funds projects of ocean (201505013)，“全球大洋气候多模式集合预测系统研制与业务化示范应用”，课题负责人，2015-2018

(38) 国家自然科学基金国际合作与交流项目 “东南亚季风气候的年代际变化和近期预估”，项目编号：NSFC 41661144016；项目骨干；2016.09-2019.08

(39) 国家杰出青年基金项目 “热带海气相互作用及东亚季风系统”，项目编号：NSFC 41425019 ；项目负责人；2015.01-2019.12

2) 目前在研课题：

(1) 国家自然科学基金重点项目 “全球变暖背景下海洋的快慢响应过程及对东亚区域气候的影响”，项目编号：NSFC 41831175，项目负责人；2019.01-2023.12

(2) 国家自然科学基金创新群体项目 “东亚季风变异特征与机理”，项目编号：NSFC41721004，项目骨干；2018.01-2023.12

(3) 中国科学院海洋大科学研究中心重点部署项目：“气候变暖背景下印太交汇区海洋-东亚夏季风-青藏高原气候长期变化之间耦合过程研究”，项目编号：COMS2019Q03，项目负责人，2019.11-2022.11

(4) 中国科学院战略性先导科技专项资助，子课题“印度洋-第三极热力差异对季风的影响及其经向输送效应”，项目编号：XDA20060501；子课题骨干；2018-2022

(5) 国家重点研发计划全球变化及应对重点专项“高分辨率海冰模式的研发” (2018YFA0605904)，项目骨干；2018.9-2023.12

- (6) 国家自然科学基金委重大研究计划“青藏高原多圈层相互作用及其气候影响”集成项目，项目批准号 91937302，课题负责人，2019.9-2022.9
- (7) 科技部第二次青藏高原综合科学考察研究（2019QZKK0102）气候变化与西风-季风协同作用，骨干，2019.11-2022.10
- (8) 国家自然科学基金重点项目“碳中和背景下的关键气候动力学过程及其对中国区域气候的影响”，项目编号：NSFC42141019，项目负责人；2022.01-2025.12
- (9) 横向项目：内蒙古自治区鄂尔多斯高新区气候可行性论证，2022.3-2022.5，项目负责人

2. 获奖、任职及社会荣誉情况：

获奖：

- (1) 2022 年 9 月，黄刚课题组的“全球变暖下 ENSO 对东亚夏季气候影响及变化机理”被国家气象局“十三五”以来气象科技成果评定为优秀成果
- (2) 2021 年 5 月 25 日，入选美国斯坦福大学发布了"2020 全球前 2% 顶尖科学家榜单"（World's Top 2% Scientists 2020）
- (3) 2021 年 4 月 20 日，入选气候变化研究领域全球最具影响力的 1000 位科学家名单（中国有 89 名科学家入选）
- (4) 2020 年 12 月，获中国科学院“朱李月华”优秀教师奖；
- (5) 2020 年 12 月，获国家杰出青年基金验收优秀项目，整个地学 21 个项目中唯一的三项优秀之一，也是大气海洋地理口的唯一入选项目；
- (6) 2019 年主持申报“印度洋海盆模态对东亚夏季气候的影响机理”获中国气象学会大气科学基础研究成果奖一等奖（第一完成人，待正式发布）
- (7) 2018 年 10 月 14 日，被授予中国科学院大学地球与行星科学学院杰出校友
- (8) 2018 年 9 月，获 2018 年度中国科学院优秀研究生指导教师（其指导的姚帅磊博士获 2018 年度中国科学院优秀博士论文奖，注：中国科学院研究生院从 2011 年起不参加全国优博的评选）；
- (9) 2018 年 2 月，获得国家高层次人才特殊支持计划-国家万人计划领军人才证书
- (10) 2018 年 1 月，“热带印度洋气候模态的海洋动力学机制”获 2017 年度广

东省自然科学一等奖,个人排名第二 (广东省科技厅)

- (11) 2017 年 12 月, 入选国家第三批万人计划科技创新领军人才(中组部)
- (12) 2017 年 6 月, 获 2016 年国家创新人才推进计划中青年科技创新领军人才 (国家科技部)
- (13) 2017 年 1 月, 获中国科学院大气物理所先进工作者称号
- (14) 2016 年 10 月, 获北京市民盟组织成立 70 周年活动, 被授予盟务工作先进个人称号
- (15) 2014 年 10 月, 获 2014 年度卢嘉锡优秀导师奖;
- (16) 2013 年 11 月 获 2013 年度中国科学院优秀研究生指导教师 (其指导的屈侠博士获 2013 年度中国科学院优秀博士论文奖,, 注: 中国科学院研究生院从 2011 年起不参加全国优博的评选);
- (17) 2013 年 10 月, 获 2013 年度赵九章优秀中青年科学奖 (2 年 1 届);
- (18) 2012 年 12 月, 获 2012 年度中国科学院大气物理所创新贡献奖;
- (19) 2012 年 11 月, 获 2012 年度中国科学院优秀研究生指导教师 (其指导的博士胡开明获 2012 年度中国科学院优秀博士论文奖, 注: 中国科学院研究生院从 2011 年起不参加全国优博的评选);
- (20) 2012 年 6 月, 获北京气象学会中青年优秀论文三等奖;
- (21) 2012 年 6 月, 获第三届全国青年科学博客大赛单项奖-最佳图片奖;
- (22) 2012 年 11 月, 获中国科学院“朱李月华”优秀教师奖;
- (23) 2011 年 11 月 23 日, 获 2011 年度中国科学院“科教结合”教育创新项目-教育贡献奖;
- (24) 2011 年 9 月, 获第 12 届中国青年科技奖提名 (中国科学探险协会推荐);
- (25) 2010 年 12 月和 2013 年 1 月, 由于本人领导研制的数值预报系统在多次航天保障中取得重要贡献, 西昌卫星中心特发感谢信对本人和团队表示感谢和进一步合作的意愿;
- (26) 2010 年 11 月, 大气科学数据再分析平台的建立 (为项目领导者), 获中国科学院科研信息化应用优秀案例;
- (27) 2010 年 9 月, 第 7 届全国优秀青年气象科技工作者;
- (28) 2008 年度中国科学院王宽诚教育基金会奖学金--国际会议项目 (全额资

助) (科发人教函字[2008]83 号);

(29) 2005 年 10 月, 获第 11 届涂长望青年气象科技奖二等奖;

(30) 2001 年 1 月, 获“学笃风正”优秀博士论文奖。该博士论文被评为中国科学院大气物理研究所优秀博士论文并获全国优博提名; 博士论文题目为“从区域和全球观点来看东亚夏季风的南北异常活动”; 导师: 叶笃正院士;

(31) 1999 年 1 月, 获“学笃风正”全国青年大气科学研讨会优秀论文奖。文章发表在科学通报, 1999 年第 4 期, 论文题目为: 东亚夏季风环流异常指数及其年际变化, 作者: 黄刚、严中伟, 科学通报, Vol.44, No.4, 421-424, 1999

社会荣誉:

北京市中关村中学杰出校友 (2015-现在); 成都信息工程大学杰出校友 (2014-现在); 中国科学院大学地球与行星科学学院杰出校友 (2018-现在)

杂志编委:

大气科学常务编委 (2006-至今)

气候与环境研究编委 (2006-至今)

气象学报编委 (2014-至今)

中国科学数据编委 (2015-至今)

Editorial Board of Frontiers in Atmospheric Science, since 2013

Lead Guest Editor of Advances in Meteorology (SCI), since 2014

Guest Editor of Advances in Atmospheric Sciences (SCI, IF=1.479, 2014), since 2014

Editor of PeerJ (SCI, IF=2.1770, 2016), since 2017

Guest Editor for Sustainability (SCI, IF=2.576, 2019), since 2020

Guest Editor for Frontiers in Earth Science (SCI, IF=2.689, 2019), since 2020

Editor of Advances in Atmospheric Sciences (SCI, IF = 3.9, 2021), since 2022

Section Editor-in-Chief role for the section Climate in Geosciences (ISSN 2076-3263) (<https://www.mdpi.com/journal/geosciences/sections/climate>), since 2022

Editor of The Innovation Geoscience, since 2023

学术任职:

(1) 中国科学院特聘核心研究员; 北京市科学技术奖励评审专家; 北京市科学技术委员会专家; 北京市自然科学基金评审专家; 南京信息工程大学博士

生导师资格评审专家；山东省杰出青年基金评审专家；中国气象局同行评议专家；NSFC 基金评审专家；中国博士后科学基金评审人；国家科技部重大科学研究计划项目评审专家；北京市自然科学基金会评专家及环境评审组组长；国家科学技术奖励评审专家；国家教育部学位中心通讯评审专家；国家重点研发计划项目会评专家；国家自然科学基金奖评审专家；国家教育部长江奖励学者会评专家；多个大学人才项目的评审专家（南京大学，中国农大等）

- (2) 中国科学院大气物理所发展战略调研组委员；成都信息工程学院高原大气与环境研究中心学术委员会委员；中国气象学会动力气象委员会委员；中国气象学会高原气象委员会委员；第六届 CNC-WCRP（中国气候研究委员会）委员；中国科学院大气物理所第九届学位评定委员会委员；大气科学常务编委；气候与环境研究编委；气象学报编委；中国科学数据编委
- (3) 成都信息工程学院大气科学学院兼职教授硕士生导师；安徽理工大学硕士生导师；中国科学院网络信息中心交叉培养研究生导师；南京信息工程大学兼职教授博士生导师；中国科学院大学岗位教授；南京大学大气科学学院联合导师；American Association for the Advancement of Science—AAAS 会员（美国科学促进会会员）

- (4) 为国外 40 家 SCI 杂志的评审人（包括如下杂志---按先后顺序：

Reviewer of

Journal of the meteorological society of Japan (IF=1.233,2012);

Journal of Climate (IF=4.362, 2013);

Monthly Weather Review (IF= 2.758, 2013);

Climate Dynamics (IF=4.602, 2012);

Journal of Geophysical Research—Atmospheres (IF= 3.174, 2013);

Climate Research (IF= 2.684, 2013);

Theoretical and Applied Climatology (IF=1.942, 2012);

Meteorological Applications (IF=1.411, 2012);

International Journal of Climatology (IF=2.906, 2012);

Meteorology and Atmospheric Physics (IF=1.327, 2013);

Geophysical Research Letters (IF=3.982, 2013);

Nature Communications (IF=10.742, 2014);

Geophysical & Astrophysical Fluid Dynamics. (IF=1.062,2014);
Atmosphere (IF=0.226,2014);
Global and Planetary Change (IF=2.766, 2014) ;
Scientific Reports (IF=5.578,2015)
SOLA (IF=0.791,2015)
Hydrological Sciences Journal (IF=2.222,2016)
Science of the Total Environment (IF=4.9,2016)
Deep-Sea Research Part I (IF=2.48, 2016)
Atmospheric Research (IF=4.0343, 2017)
Renewable & sustainable energy reviews(IF=8.05, 2017)(12.11,2019)
PLOS One(IF=2.806,2017)
Atmospheric Science Letters(IF=1.198,2017)
Environmental Research Letters (IF=6.096,2019)
Advances in Meteorology (IF=1.577,2019)
Ocean Engineering (IF=3.068, 2019)
Weather and Climate Extremes (IF=4.698, 2019)
Earth's Future (IF=6.141, 2019)
Journal of Maps (IF=2.654, 2020)
Climatic Change (IF=4.743, 2020)
Environmental Science and Pollution Research (IF=4.223,2020)
Atmospheric Chemistry and Physics (IF=6.1325,2021)
Journal of Cleaner Production(IF=11.0717,2021)
Modern Physics Letters B(IF=1.9480,2021)
Annals of the New York Academy of Sciences(IF=6.4994,2021)
Remote Sensing(IF=5.3493,2021)
Nature Climate Change(IF=28.6610,2021)
Healthcare(IF=3.16,2021)
NPJ climate and atmospheric science (IF=9.4475,2022)

(5) 为国内 11 家 SCI,12 家 CSCD 杂志的评审人如下:

Journal of Mountain Science (IF= 2.3713,2021)

- Advances in Climate Change Research (IF=4.130,2021);
- 中国科学-地球科学(中国科学 D 辑:地球科学)(Science in china series d-earth sciences, IF=1.588,2012);
- 科学通报(Chinese Science Bulletin, IF=1.319,2013);
- CHINESE PHYSICS B (IF=1.148,2013);
- 物理学报 (Acta Physica Sinica, IF= 1.016,2013);
- 大气科学进展 (Advances in atmospheric Sciences(AAS), IF= 1.338,2013);
- 气象学报(Journal of Meteorological Research (JMR),IF=0.799, 2013)
- 海洋学报 (Acta Oceanologica Sinica), IF=0.728,2017)
- 热带气象学报(JOURNAL OF TROPICAL METEOROLOGY, IF=0.255, 2013);
- 中国海洋湖沼学报(Chinese Journal of Oceanology and Limnology, IF =0.577, 2013);
- 中国海洋大学学报(Journal of Ocean University of China (JOUC),since 2012 SCIE);
- 气候与环境研究(Climatic and Environmental Research);
- 热带海洋学报(Journal of Tropical Oceanography);
- 南京气象学院学报(后改为大气科学学报 Transactions of Atmospheric Sciences);
- 大气科学(Chinese Journal of Atmospheric Sciences);
- 大气海洋快报英文版(Atmospheric and Oceanic Science Letters(AOSL));
- 长江流域资源与环境(Resources and Environment in The Yangtze Basin);
- 计算物理(Chinese Journal of Computational Physics);
- 地球科学进展(Advances in Earth Science);
- 气象科学 (Journal of the Meteorological Sciences);
- 中国科学技术大学学报(Journal of University of Science and Technology of China)
- 兰州大学学报(自然科学版)(Journal of Lanzhou University (Natural Sciences))
- (6) AGU (American Geophysical Union 美国地球物理协会) 会员, 中国气象学会 (Chinese Meteorological Society) 会员, AAAS (American Association

- for the Advancement of Science 美国科学促进会) 会员;
- (7) 中国科学院研究生院夏季学期“气候变化研究最新进展”的主讲老师和课程组织者 (20 学时) (2009-2014); 每年评分均为优秀;
 - (8) 自 2011 年 9 月起, 被香港中文大学聘为香港中文大学高级环境规划技术理学硕士课程的特邀授课老师并多次访问香港中文大学进行授课;
 - (9) 2013 年 2 月, 被邀请为第三次《气候变化国家评估报告》第 5 章的首席作者并担任具体编写工作;
 - (10) 2013 年 11 月, Editorial Board of Frontiers in Atmospheric Science (Swiss, Gold open-access academic publisher)
 - (11) 2014 年 2 月 24 日-25 日, 2014 科学数据大会—科研大数据与数据科学“程序委员会”委员, 并担任地球与空间科学 (大气、海洋、资源、环境、地球观测) 大数据及应用分会的召集人和主席
 - (12) 2014 年 4 月, Lead Guest Editor of Advances in Meteorology (SCI, IF = 1.239, 2013)
 - (13) 2014 年 12 月, 第二十八届气象学报编委
 - (14) 2015 年 8 月 25 日-27 日, 2015 科学数据大会—数据、科学与丝绸之路经济带“程序委员会”委员
 - (15) 2014-2015, Guest Editor of **Advances in Atmospheric Sciences** (SCI, IF = 1.479, 2014)
 - (16) 中国科学院大学研究生课程“气候动力学”的主讲老师 (40 学时) (2015-至今); 评分为优秀课程;
 - (17) 2016 第三届科学数据大会程序委员会委员, 中国上海
 - (18) 2015 年 12 月, 被聘为中国科学数据首届编委 (CN11-6035/N)
 - (19) 2016 年 6 月, 被聘为教育部“10000 个科学难题”海洋科学卷的编写专家和审稿专家
 - (20) 2016 年 12 月, 被聘为 CNC-WCRP 第 7 届委员
 - (21) 2016 年 12 月, 被聘为第四届 (2017) 科学数据大会程序委员会委员
 - (22) 2016 年 12 月, 被聘为中国气象学会青年人才托举工程指导老师
 - (23) 2017 年 3 月, 被邀请为“瞭望智库专家库”的首批入驻专家

- (24) 2017 年 9 月 30 日, Editor of PeerJ (SCI,IF=2.1770,2016)
- (25) 2017 年 11 月, 被聘为复旦大学碳排放与环境大数据研究所专家咨询委员会委员
- (26) 2018 年 11 月, 被聘为中国民用航空飞行学院航空气象实验室学术委员
- (27) 2019 年 4 月, IPCC AR6 Expert Reviewer
- (28) 2020 年 3 月, 入选中科院大气物理研究所学术委员会委员
- (29) 2020 年 3 月, JMR reviewer award in August, 2019
- (30) 2020 年 3 月, 被聘为河海大学兼职教授博士生导师
- (31) 2020 年 8 月, 被聘为天津市海洋气象重点实验室学术委员
- (32) 2020 年 9 月, Guest Editor for Sustainability (IF=2.576, 2019)
- (33) 2020 年 11 月, 被聘为兰州大学半干旱气候变化教育部重点实验室第三届学术委员会委员
- (34) 2020 年 11 月, Guest Editor for Frontiers in Earth Science (IF=2.689)
- (35) 2020 年 12 月, 科学探索奖评议和提名专家 Expert Team of THE XPLOER PRIZE
- (36) 2022 年 7 月, Editor of Advances in Atmospheric Sciences (SCI, IF = 3.9, 2021)
- (37) 2022 年 7 月, 广东海洋大学深圳研究院客座教授
- (38) 2022 年 8 月, 成都信息工程大学云南自然灾害防御技术研发中心学术委员会委员
- (39) 2022 年 11 月, 北京市科学技术协会创新服务中心“千人进千企”首批专家服务团产业特派员

3. 参加国内国外学术会议以及讲座情况:

参加了数十次国际学术研讨会以及国内重要会议几十次, 并作了大会报告 (注: 参见国际会议论文集); 曾应邀多次到美国夏威夷大学及 IPRC、马里兰大学、香港中文大学、香港城市大学、澳门大学、澳门地球物理及气象局、南京信息工程大学 (原南京气象学院)、河海大学、成都信息工程学院 (原成都气象学院)、北京师范大学、中国科学技术大学、北京大学、浙江大学、中山大学、上海复旦大学、兰州大学、中国海洋大学、福建师范大学、中科院海洋所、中科院

南海所、总参气象水文局、国家气象局气候中心以及国家气象科学研究所、国家海洋局第 2 和第 3 研究所、中国民航局空中交通管理局航空气象中心、福建省气象局、东营气象局以及威海气象局和重庆机场气象台等兄弟单位进行学术交流和讲座,同时辅助北京人大附中初中科学课程设计以及中关村中学地学科普馆以及安徽省叶笃正科普馆等建设设计等。

三、论文、会议报告文集及其技术报告目录:

截止到 2023 年 2 月本人共发表 258 篇文章,其中第一作者(含通讯及共同通讯作者) 129 篇;

SCI (E) 181 篇,其中第一作者(含通讯作者) 100 篇,包含 123 篇 1 区 SCI 文章(其中 Journal of Climate 29 篇, Climate Dynamics 33 篇,包括 TOP 期刊 13 篇(PNAS 1 篇, Nature Climate Change 3 篇, Science Advances 2 篇, Nature Geoscience 3 篇, Nature Communications 2 篇, Annual Review of Earth and Planetary Sciences 1 篇, NPJ climate and atmospheric science 1 篇)等);


CSCD 63 篇,其中第一作者(含通讯作者) 23 篇,包含 3 篇(AOSL)第一作者(含通讯作者);

著作的章节共 14 篇,其中国外出版著作章节 2 篇,国内图书章节 10 篇,以及一本译著,其中第一作者及其通讯作者 7 篇。见下面详细列表:

其中发表的 SCI 刊物 (181 篇, 36 种期刊) 影响因子和列表如下(影响因子合计 1,165.82):

| 期刊名 | 影响因子(2022) | 发表数量 |
|---|----------------|----------|
| Nature Climate Change | 28.6610 | 3 |
| Nature Geoscience | 21.5314 | 3 |
| Science Bulletin (SB) | 20.5776 | 6 |
| Nature Communications | 17.6939 | 2 |
| Annual Review of Earth and Planetary Sciences | 16.3040 | 1 |
| Science Advances | 14.9579 | 2 |
| Proceedings of the National Academy of Sciences of the United States of America (PNAS) | 12.779 | 1 |
| Desalination | 11.211 | 1 |











| | | |
|---|--------|----|
| Science of The Total Environment | 10.753 | 2 |
| Environmental Pollution | 9.988 | 2 |
| NPJ climate and atmospheric science | 9.4475 | 1 |
| Energy | 8.857 | 2 |
| Earth's Future | 8.852 | 1 |
| Quarterly journal of the royal meteorological society | 7.237 | 1 |
| Environmental Research Letters | 6.947 | 5 |
| Frontiers in Public Health | 6.4608 | 1 |
| Journal of the American Heart Association(JAHA) | 6.106 | 1 |
| Atmospheric Environment | 5.755 | 1 |
| Metabolites | 5.5810 | 1 |
| Geophysical Research Letters (GRL) | 5.576 | 11 |
| Journal of Climate (JC) | 5.380 | 29 |
| Remote Sensing | 5.3493 | 2 |
| Journal of Geophysical Research-Atmosphere | 5.217 | 5 |
| Scientific Reports | 4.996 | 1 |
| Climate Dynamics (CD) | 4.901 | 33 |
| Quaternary Science Reviews | 4.456 | 1 |
| Geoscience Letters | 4.375 | 1 |
| Advances in Atmospheric Sciences (AAS) | 3.9 | 15 |
| PLOS One | 3.752 | 1 |
| Frontiers in Earth Science | 3.661 | 3 |
| International Journal of Climatology (IJC) | 3.651 | 9 |
| Theoretical and Applied Climatology (TAC) | 3.409 | 26 |
| Journal of the Meteorological Society of Japan (JMSJ) | 3.356 | 1 |
| Journal of Meteorological Research (JMR) | 2.569 | 2 |
| Atmospheric Sciences Letters (ASL) | 2.992 | 3 |
| Dynamics of Atmospheres and Oceans (DAO) | 2.049 | 1 |











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**SCI 第一作者和通讯及共同通讯作者论文(100 篇): 其中下划线代表 1 区杂志,











其中 包括 TOP 期刊 7 篇(Nature Climate Change(2017),Science Advances(2020), Nature Geosciences(2021, 2022), PNAS (2022), Nature Communications (2023), NPJ (2023))










- 1 Zhang, S., X. Qu*, **G. Huang*** and P. Hu,2023: Asymmetric Response of South Asian Summer Monsoon Rainfall in a Carbon Dioxide Removal Scenario, NPJ climate and atmospheric science(SCI)
- 2 Chen, Y., **G. Huang***, Y. Wang*, W. Tao*, Q. Tian, K. Yang, J. Zheng and H. He, 2023,Improving the heavy Rainfall forecasting using a weighted deep learning model, Frontiers in Earth Science,11:1116672.,<https://doi.org/10.3389/fenvs.2023.1116672> (SCI)
- 3 Gan, R., Q. Liu*, **G. Huang***, K. Hu and X. Li, 2023: Synchronized effects of greenhouse warming and internal variability have increased the frequency of extreme and central Pacific El Niño since 1980, Nature Communications, 14, 394 (2023), <https://doi.org/10.1038/s41467-023-36053-7> (SCI)
- 4 Tang, H., X. Wang, Y. Kang, C. Zheng, X. Cao, Y. Tian, Z. Hu, L. Zhang, Z. Chen, Y. Song, R. Gu, J. Cai, **G. Huang*** and Z. Wang*, 2022: Long-Term Impacts of Diurnal Temperature Range on Mortality and Cardiovascular Disease: A Nationwide Prospective Cohort Study, Metabolites ,2022, 12, 1287. <https://doi.org/10.3390/metabo12121287> (SCI)
- 5 Wang, Q., L. Wang*, **G. Huang*** and T. Wang, 2022: Mechanism of the Summer Rainfall Interannual Variability in Transitional Climate Zone in East Asia: Roles of Teleconnection Patterns and Associated Moisture Processes, Climate Dynamics, <https://doi.org/10.1007/s00382-022-06618-1> (SCI)
- 6 Tang, H., C. Zheng, X. Cao, S. Wang, L. Zhang, X. Wang, Z. Chen, Y. Song, C. Chen, Y. Tian, W. Jiang, **G. Huang*** and Z. Wang*, 2022: Blue sky as a protective factor for cardiovascular disease , Frontiers in Public Health , <https://doi.org/10.3389/fpubh.2022.1016853> (SCI)
- 7 Ma, X., **G. Huang***, X. Li and S. Li,2022: The potential mechanisms of the dominant timescale of AMOC multidecadal variability in CMIP6/CMIP5 preindustrial simulations, Climate Dynamics, <https://doi.org/10.1007/s00382-022-06440-9> (SCI)
- 8 Xu, Z., **G. Huang***, F. Ji*, B. Liu and F. Chang, 2022: Robustness of the long-term nonlinear evolution of global sea surface temperature trend, Geoscience letters, 9,25(2022), <https://doi.org/10.1186/s40562-022-00234-x> (SCI)
- 9 Wang, Q., **G. Huang***, L. Wang, J. Piao, T. Ma, P. Hu, C. Chotamonsak and A. Limsakul, 2022: Mechanism of the summer rainfall variation in Transitional Climate Zone in East Asia from the perspective of moisture supply during












- 1979–2010 based on the Lagrangian method, *Climate Dynamics* ,
<https://doi.org/10.1007/s00382-022-06344-8> (SCI) 
- 10 Wang, Y., **G. Huang***, K. Hu*, W. Tao, H. Gong, K. Yang and H. Tang,2022: Understanding the eastward shift and intensification of the ENSO teleconnection over South Pacific and Antarctica under greenhouse warming, *Frontiers in Earth Science*, 10:916624.,<https://doi.org/10.3389/feart.2022.916624> (SCI) 
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**** CSCD 第一作者 (含通讯作者) (23 篇)**

****其中包含 (AOSL) 第一作者 (含通讯作者) (3 篇)**

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接收修改稿 (revision): 其中下划线代表 1 区 SCI 杂志

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修改稿 (Revision):

- 259 Wang, Y., G. Huang*, X. Li, W. Tao, Gu, H. Gong and H. Tang, 2022: Attribution of the inconsistencies of wintertime surface air temperature trends in reanalysis datasets on the Antarctic Peninsula, Geoscience letters (SCI)
- 260 Gan ,R., G. Huang* and K. Hu, 2022: The diverse impacts of El Niño on northeastern Canada and Greenland surface air temperatures, Journal of climate (SCI)
- 261 Miao, H., H. Xu, G. Huang* and K. Yang*.2022: Evaluation and future projections of wind energy resources over the Northern Hemisphere in CMIP5 and CMIP6 models, Renewable Energy (SCI)
- 262 Lin Wang*, Gang Huang*, Wen Chen and Ting Wang, 2022:Super Drought under Global Warming: Concept, Monitoring Index and Validation, BAMS (SCI)

263 Tao, W. G. Huang* etc, 2023: The onset and cessation of rainy season over the Hengduan Mountains, CD (SCI)

投稿中(Submitted):

264 Zheng, C., H. Tang, X. Wang, Z. Chen, L. Zhang, Y. Kang, Y. Yang, L. Chen, H. Zhou, J. Cai, X. Cao, G. Huang and Z. Wang*, 2021: Ambient Air Pollution is associated with abnormal Left Ventricular Diastolic function: Insights from the CHS project, submitted to Science Bulletin (SCI)

265 Wang, S., G. Huang*, T. Dai, Y. Cheng, Y. Niwa and J. Cao, 2021: Improving temperature simulation by implementing inhomogeneous CO₂ radiative processes in NICAM, submitted to Advances in Atmospheric Sciences (SCI)

266 Yuan Li*, Junhua Yang and Gang Huang, 2022: Is the ice-crust indicative of rare thunderstorms in polar areas? submitted to Science (SCI)

267 Su, X., G. Huang*, L. Wang and T. Wang, 2023: Global drought changes and attribution under carbon dioxide removal, submitted to Earth's Future (SCI)

268 Wang, Y., G. Huang*, K. Hu and W. Tao, 2023: The role of the nonlinear energy advection and synoptic-scale transient eddies in forming asymmetric ENSO teleconnections over the North Pacific and North America, submitted to GRL (SCI)

269 Tang, H., K. Hu*, G. Huang*, W. Jiang, W. Tao, Y. Wang and H. Hou, 2023: Weak persistence of Northwest Pacific anomalous anticyclone during post-El Niño summers in CMIP5 and CMIP6 models, submitted to CD (SCI)

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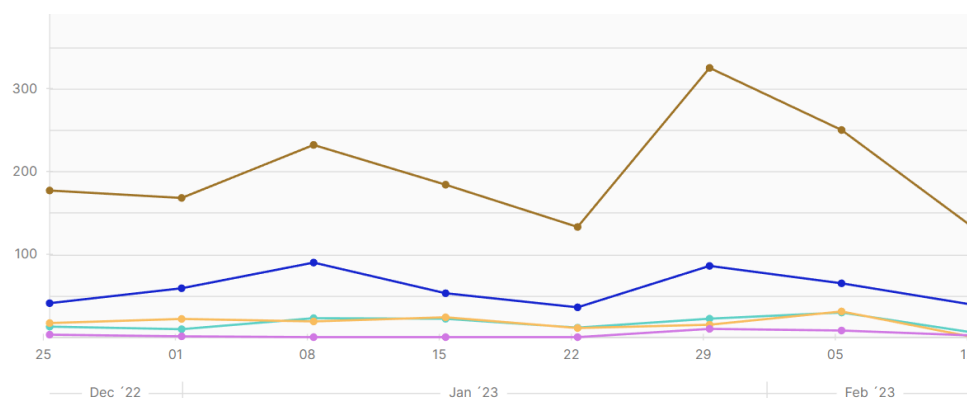
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1 黄刚*, 王鹏飞, 刘波, 胡开明, 陶炜晨, 黄勇, CIESM 地球系统模式耦合预报软件 V1.0, 登记号: 2019SR0970428, 第一完成人

2 黄刚*, 王鹏飞, 刘波, 胡开明, 陶炜晨, 黄勇, CIESM 地球系统模式 ENSO 预测系统 V1.0, 登记号: 2019SR0971354, 第一完成人

3 黄刚*, 王素, 胡开明, 中国蓝指数的定义及应用软件 V1.0, 登记号: 2019SR1184690, 第一完成人

4 黄勇, 黄刚, 王颖, 基于 BP 神经网络的 ENSO 集合预测软件 V1.0, 登记号: 2022SR1359291, 第二完成人

****专利: Patent 1 项**

黄刚; 王素; 一种基于气象要素的天空蓝指数确定方法及系统, 2022, 中国, 专利号: 202010226425.X

****国际会议论文集: International Conference Paper List 42 篇**

1. The impact of ENSO on East Asian summer rainfall and its future change, **Huang Gang***, 2022 International Conference on Sea-Air Interaction and Climate Dynamics, Changsha, P.R. China, Nov19-21,(Invited Talk)
2. The Definition, Variations, Reasons, and Forecast of Blue Days, **Huang Gang*** etc International year of Basic Sciences for Sustainable Development -- International Forum for Basic Sciences in Climate Changes and Sustainable Development, Nov 22st – 26th, 2022, Beijing (Invited Talk)
3. Solving the Mystery of Summer Climate Disasters in East Asia, **Huang Gang***, International Training Course on Marine Scientific Research in the South China Sea, online, 22-26, Agust 2022, China and ASEAN Member States (AMS) young Scientist (<http://scs.fio.com.cn/Training2022>) (Invited Talk)
4. The impact of ENSO on summer precipitation in East Asia and its future changes , **Huang Gang***, 2021 China-Thailand Symposium on Decadal Change of Climate Extremes in Southeast Asian Region, online, Dec 6, 2021(Invited report)
5. Distinct global warming rates tied to multipleocean surface temperature changes, **Huang Gang* etc**, The 5th China-Thailand Joint Conference on Climate change,27-29 Nov,2017, Chiangmai, Thailand
6. A New Circulation Index for the East Asian Summer Monsoon Variability, **Huang Gang* etc**, The 13th 'General Circulation Model Simulations of the East Asian Climate' (EAC) workshop'- East Asian Climate under Global Warming: Understanding and Projection, 24-25 March, 2016,Beijing,China (Invited Speakers)
7. A New Dynamical Index for the East Asian Summer Monsoon, **Huang Gang* etc**, Second International Symposium on Climate and Earth System Modeling, Oct.15-16, 2015, Nanjing (Invited)

8. The impact of ENSO on Northwest Pacific summer climate simulated in CMIP5 models, **Huang Gang***, **Ocean-atmospheric dynamics in the changing climate, 2015.12.10-12.12** , *Climate Atmosphere Science and Physical Oceanography (CASPO)*, Scripps Institution of Oceanography, UC San Diego, La Jolla, California, USA
9. A New Upper-level Circulation Index for the East Asian Summer Monsoon Variability, **Huang Gang* etc**, 'Recent and expected climate change along the Chinese coastal zones' workshop, Sept.10-11, 2015, Qingdao (Invited)
10. Indian Ocean air-sea interaction and its climate effects, **Huang Gang***, **Public Seminar, Curtin University** Australia, 9 April 2015, Perth, Australia (invited talk)
11. Coupled ocean-atmosphere dynamics of global warming, **Huang Gang***, The 12th NIMR-IAP Joint Research Workshop, 1-5 Apr.2014, Jeju-do, Korea (Invited)
12. Spatial and temporal variations of light rain events over China and the mid-high latitudes of the Northern Hemisphere, **Huang Gang***, Workshop on Climate Change and Urban Adaptation Science and Practice: Exploring the Challenges, 8-15 December 2013, Raglan, New Zealand (Invited)
13. Ocean's Role in Regional Climate Change under Global Warming, **Huang Gang***, Beijing Symposium on Global Change 2013(Global Change and Sustainable Development),23-25 Sept,2013,Beijing ,China
14. Equatorward shift of the South Asian high in response to anthropogenic forcing,**Gang Huang*** and Xia Qu, Physical Processes in outer and near-earth space and XII Young scientists' Conference (BSFP-2013), Sep 9 – 14, 2013, Irkutsk,Russia (Invited)
15. Equatorward shift of the South Asian high in response to anthropogenic forcing, **Gang Huang*** etc, the Third Korea-China Joint Symposium,2-6 May 2013 in Guilin, China (Invited)
16. An Enhanced Influence of Tropical Indian Ocean on the South Asia High after the Late 1970s, **Gang Huang*** etc, International Workshop on Seasonal to Decadal Prediction, 13-16 May 2013 in Toulouse, France.
17. The Decadal Change in the Relation Between ENSO and WNP/EA Summer Climate in CMIP5 Simulation, **Gang Huang*** etc, Workshop on IAP and Met-office Jan15-Jan18, 2013, UK (Invited)
18. Decadal change in the impact of summer Indian Ocean SST anomaly on the western North Pacific summer monsoons in the late 1970s,**Gang Huang***, Workshop on Variability in the Western Tropical Pacific: Mechanisms, Teleconn

- ectio-ns and Impacts on Sub-Seasonal, Inter-Annual and Inter-Decadal Time Scales, Nov. 12 – Nov.16., ICTP, Italy, 2012
19. An enhanced influence of tropical Indian Ocean on the South Asia High after the late 1970s, **Gang Huang***, The first workshop of the weather and climate in East-south Asia, Aug.2012,chuxiong,Yunnan Province, China
 20. Interannual variability in East Asian climate and its association with tropical Indian Ocean conditions in CMIP5 models, **Gang Huang***, The 11th IAP-NIMR Joint Research Workshop, Beijing, May2012,China (Invited)
 21. Interannual variability in East Asian climate and its association with tropical Indian Ocean conditions in CMIP5 models; **Gang Huang***, Kaiming Hu, Xia Qu, WCRP Workshop on Coupled Model Intercomparison Project Phase5 (CMIP5) Model Analysis, Mar5-9, 2012, Hawaii, IPRC,U.S.A
 22. The Impact of Indian Ocean variability on high temperature extremes across south of Yangtze River Valley in late summer: **Gang Huang***, Kaiming Hu, The China-Korea Joint Workshop on the East Asian Monsoon Variability, Apr. 4-8 ,2011,Guangzhou (Invited)
 23. Strengthening of tropical Indian Ocean teleconnection to the Northwest Pacific since the mid-1970s:An atmospheric GCM study: **Gang Huang***, Kaiming Hu, Shang-ping Xie, Proceedings of the 10th NIMR-IAP Joint Research Workshop, Oct.28-29 ,2010, ByeonSan, Jeolla-do,Korea,PP59 (Invited)
 24. Threatening of climate change on water resources and supply: case study of northwest China: Cui, X.; **Huang, G.**; Chen, W.; Morse, A. EGU2008-A-01959, EGU General Assembly 2008
 25. Impact of Summer Indian Ocean SST variability on Asian Monsoon: **Gang Huang***, Kaiming Hu, 2008 Western Pacific Geophysics Meeting, Number: 49, Cairns, Australia, 29 July - 1 August 2008
 26. Long persistence of El Nino-induced Indian Ocean warming: Role of air-sea interaction: Yan Du, Shang-ping Xie, **G. Huang**, K.M.Hu, 2008 Western Pacific Geophysics Meeting, Number: 263, Cairns, Australia, 29 July - 1 August 2008
 27. Indian Ocean capacitor effect: El Nino's long grip on the Asian-western Pacific summer monsoon, Shang-Ping Xie, K.M.Hu, J.Hafner, Y.Du, **G. Huang**, H.Tokinaga, 2008 Western Pacific Geophysics Meeting, Number: 261(invited), Cairns, Australia, 29 July - 1 August 2008
 28. Impact of Summer Indian Ocean SST variability on Asian Monsoon: Differences between North and South, **Huang Gang*** and Hu kaiming,42, Joint Conference on the 6th International Symposium on Asian Monsoon System (ISAM6) and the 9th East Asian Climate Workshop (EAC9), 10-13 December,2007 ACROS Fukuoka, Japan

29. Differences between the NCEP/NCAR and ERA-40 reanalysis data over East Part of China, **Huang Gang***, The 5th International Symposium on Asian Monsoon System (ISAM5), 11-15 october, 2005, Korea
30. The Variability of the Wind System Circulating round the West Side of the Tibetan Plateau and Its Relation to the Asian-African Summer Monsoon, **Huang Gang*** and Johnny C.L .Chan, IAMAS 2005, Beijing
31. An Index measuring the international variation of the East Asian summer monsoon-The EAP index, **Gang Huang***, The Fourth International Symposium on Asian Monsoon System (ISAM4), Kunming, China, 2004, 24-29 May
32. Interannual Variations of the Summer Monsoon over China, **Huang Gang***, International workshop on climate variability in Asian Monsoon Region: Past to Future, 2-4 Dec 2003, Bangkok, Thailand (Invited report)
33. Further Study about A 20-member Ensemble Simulation with An AGCM forced by Observed SSTs, **Huang Gang***, Shang-Ping, Xie and Shinji Matsumura ,The Third International Symposium on Asian Monsoon System (ISAM3) ,December 11-14, 2001, Nago, Okinawa, Japan
34. A 20-members ensemble simulation using CCSR/NIES AGCM forced by observed SST, **Huang Gang*** etc. Challenges of A Changing Earth, 10-13 July, 2001 Amsterdam, Netherlands
35. The study of NAO by using a 20-member Ensemble Simulation by CCSR/NIES AGCM, **Huang Gang***, The Fifth Atmospheric Dynamics academic meeting, April, 2001. Yang Zhou
36. About Ensemble simulation using CCSR/NIES AGCM, **Huang Gang***, International Pacific Research Center (IPRC) seminar, Hawaii, USA, Dec 30, 2000
37. North China and North Africa Drought in Global Viewpoint, **Huang Gang***, The Second International Symposium on Asian Monsoon System (ISAM2), Cheju, Korea, March 27-31, 2000
38. The Climate Background of the Drought in North China and Dry in Yellow River, **Huang Gang***, The meeting of "The Climate and the Continual Development"; Taipei, Taiwan, 1999.6, 51-55
39. The Relationship between the East Asian Summer Monsoon Circulation Anomaly and the climatic Variation over China and Korea. **Huang Gang***, Yan Zhongwei, Baek-Jo Kim, Proceedings of International Conference on the Variability and Predictability of the Asian Monsoon (ICAM), September 22-26, 1998, Xian, China, 26-29
40. Interannual Variability of the East Asian Summer Monsoon associated with the thermal states of the tropical Pacific, Ren Baohua, Huang Ronghui, **Huang Gang**,

Proceedings of International Conference on the Variability and Predictability of the Asian Monsoon (ICAM), September 22-26,1998, XiAn, China, 258-262

41. The East Asian Summer Monsoon Circulation Anomaly Index and the Interannual Variation of the East Asian Summer Monsoon, **Huang Gang***, Yan Zhongwei, International Conference on Monsoon and hydrologic Cycle, Kyongju, Korea, 22-25, April, 1998, 236-241
42. The Study of East Asian Summer Monsoon strength index and the relationship with East Asian summer monsoon interannual variability, **Huang Gang***, The fourth Atmospheric Dynamics academic meeting, Sept.1997, WuYi Mountain, Fujian

****港澳台报告**

1. 一个新的东亚夏季风急流指数, 黄刚, 2016 两岸气象合作台风暴雨学术研讨会, 1 月 20 日-22 日, 台湾高雄 (特邀报告, 30 分钟)
2. Orographically Anchored El Nino Effect on Summer Rainfall in Central China, 黄刚, 2019 两岸台风暴雨及短期气候学术研讨会, 2019 年 1 月 19 日-23 日, (特邀报告, 30 分钟) 台北

****科普报告**

- 1 黄刚, 全球变暖是忽悠吗? 2015 年 5 月 17 日 中国科学院第 11 届公众科学日科普报告
- 2 黄刚, 全球变暖? 2016 年 4 月 13 日 中关村第四小学二年级科普报告

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参与光明网（光明日报社创立）的叶笃正先生百年纪念专题节目（2016 年 4 月 22 日）

****教授课程（6 门）**

- 1 “气候变化研究最新进展”——中国科学院大学研究生院夏季学期的主讲老师和课程组织者（20 学时）（2009-2014）；该课程每年评分均为优秀；
- 2 “高级环境规划技术理学硕士课程”——香港中文大学的特邀授课老师，（从 2011 年起-至今）；黄刚（15 学时）；讲课内容：气候变化与城市规划及其数值模拟（Climate change, Urban Planning and their simulations）
- 3 “气候动力学”——中国科学院大学研究生院春季学期的授课教师（48 学时）（从 2015 年起-至今）；该课程评分优秀。

参与教授课程：

- 4 “热带海洋气候与海气相互作用”讲习班，2014 年 11 月 10-21 日，报告人：黄刚；讲课内容：印度洋增暖及其对东亚夏季气候的影响；中国广州，中国科学院南海海洋研究所（中国科学院大学选修课程，3 学分）
- 5 “海洋对于干旱半干旱气候的影响”讲习班，2016 年 4 月 19 日，报告人：黄刚；讲课内容：热带海气相互作用对东亚夏季气候的影响；中国兰州，兰州大学
- 6 “海洋对于干旱半干旱气候的影响”讲习班（第二届），2018 年 4 月 23 日，报告人：黄刚；讲课内容：ENSO 对中国地形降水的影响；中国兰州，兰州大学
- 7 “热带海洋气候与海气相互作用”讲习班，2019 年 11 月 18 日，报告人：黄刚，讲课内容：全球变暖背景下西北太平洋夏季风对 ENSO 的响应变化及影响的模拟误差分析；中国广州，中科院南海所

****科学技术平台的建立及其网址（2 个）**

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2. 大气科学与环境数据库的建立（八五，九五，十五以及十一五等主要参加者）<http://data.iap.ac.cn>

****相关资料及其研究技术报告（4 篇）**

1. 黄刚，王林，ERA-40 资料的再分析以及说明手册，2005，资料中心内部资料，1-50
2. 王鹏飞，徐予红，马晓光，简文生、黄刚等，大气科学数据管理系统的设计和实现，2005，中科院大气所内部资料手册，1-122
3. 黄刚，东亚季风系统数据库说明，2002，大气所网页，<http://data.iap.ac.cn>;

4. 黄刚, 常用大气科学资料、模式、以及研究单位的检索和分类, 2002,
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5. 黄刚, 赵桂洁. (2019). 东亚夏季风指数 (1851-2021). 国家青藏高原科学数据中心, DOI: [10.11888/Meteoro.tpd.270323](https://doi.org/10.11888/Meteoro.tpd.270323).
CSTR: [18406.11.Meteoro.tpd.270323](https://cstr.cn/18406.11.Meteoro.tpd.270323).
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The East Asian summer monsoon index (1851-2021). National Tibetan Plateau Data Center, DOI: [10.11888/Meteoro.tpd.270323](https://doi.org/10.11888/Meteoro.tpd.270323).
CSTR: [18406.11.Meteoro.tpd.270323](https://cstr.cn/18406.11.Meteoro.tpd.270323).] (下载引用: [RIS格式](#) | [RIS英文格式](#) | [Bibtex格式](#) | [Bibtex英文格式](#))

****博士论文(1999)**

黄刚, 1999, “从区域和全球观点来看东亚夏季风的南北异常活动”, 中国科学院大气物理研究所优秀博士学位论文。指导老师: 叶笃正院士, 答辩委员会主席: 陶诗言院士

四、培养学生和博士后情况

毕业 48 名:

博士 24 名 ((胡开明(2007 级硕博连读), 屈侠(2008 级硕博连读), 刘永(2009 级硕博连读), 杜振彩(合带, 2 导)(2008 级博士), 温冠环(2011 级硕博连读), 王林(合带, 2 导)(2011 级硕博连读), 陶炜晨(2014 级博士, 提前一年毕业), 姚帅磊(2012 级硕博连读), 赵桂洁(2012 级硕博连读), 陈思思(合带, 2 导)(2012 级硕博连读), 梁丹青(2011 级博士), 王志彪(2013 级硕博连读, 合带, 2 导), 姜文萍(2013 级直博), 朱丽华(2015 级博士));董丹宏(2015 级博士); 胡莉梭(2016 级博士); 刘波(2016 级博士); 田群(2014 级硕博连读); 周士杰(2015 级硕博连读); 马晓帆(2015 级硕博连读); 周春江(2016 级硕博连读); 汪亚(2020 级博士); 王秋琳(2017 级硕博连读); 王素(2019 级博士))

硕士 16 名(潘攀(合带, 协助指导)(2004 级), 陶炜晨(2011 级), 张珊(2012 级), 丁兆敏(2012 级), 董丹宏(2012 级), 胡莉梭(2013 级), 赵文灿(2013 级), 尤婷(2 导)(2015 级)); 王素(2016 级); 陈琳(成信大联培 2016 级); 刘映雪(2014 级); 李思萱(2016 级); 汪亚(2017 级); 苗昊泽宇(成信大联培 2017 级); 李欢欢(2017 级); 李思睿(成信大联培 2018 级)

本科 3 名(张聪(云大)、唐颢苏(南信大)、陈昱同(北京理工大学))

博士后 5 名(崔雪峰, 刘飞, 陶炜晨, 黄勇, 董丹宏);

目前学生和博士后 23 名:

博士生 15 名(张迦文、甘如玉、侯虹宇、唐颢苏、张苏芹, 冯信贤、张文、许晓琪、宿小蕴、苗昊泽宇(客座), 李思睿(客座), 徐震昊、律成林)

硕士生 4 名(陈昱同, 卢童, 赵丹(兰大合带), 王永浩)

博士后 4 名:(杨凯、汪亚、王素(合带)、姚帅磊(合带))

目前获得

中国科学院大气物理研究所优秀博士学位论文的学生名单(7 人):

胡开明(2011), 屈侠(2012), 王林(2014), 陶炜晨(2016), 姚帅磊(2017), 董丹宏(2019), 周士杰(2020)

获得中国科学院优秀博士论文的学生名单 (3 人) :

胡开明 (2012), 屈侠 (2013), 姚帅磊 (2018)

已毕业学生:

硕士 16 名 (潘攀, 陶炜晨, 张珊, 丁兆敏, 董丹宏, 文灿, 尤婷, 王素, 陈琳, 刘映雪, 苗昊泽宇, 李欢汪亚, 李思睿)



胡莉梭, 赵欢, 李思萱,

*潘攀 2007; 本科毕业院校: 成都信息工程学院

硕士题目: 青藏高原及南亚夏季热源异常特征及其对东亚环流的影响

目前工作单位: 河南省气象局气候中心;

*陶炜晨: 2014 年 6 月 4 日; 本科毕业院校: 南京信息工程大学

硕士题目: 印度洋-太平洋海气相互作用及其在全球变暖背景下的变化

Air-sea interaction in the Indo-Pacific and its change under global warming

获国家奖学金, 优秀硕士论文; 优秀硕士毕业生

目前: 已考取中国科学院大气物理研究所博士生;

*张珊: 2015 年 5 月 18 日 (答辩日期)

张珊 (城市化模拟); 本科毕业院校: 成都信息工程大学;

硕士论文题目: 城市化过程中下垫面改变对京津冀地区夏季降水的影响;

The Effects of Urban Surface Change on Precipitation of The Beijing-Tianjin-Hebei Region; 优秀硕士论文;

目前工作单位: 河北省气象局;

*丁兆敏: 2015 年 5 月 18 日 (答辩日期)

丁兆敏 (气候模拟); 本科毕业院校: 南京信息工程大学;

硕士论文题目: 耦合模式 ICM 模拟的全球季风百年尺度变化特征及对轨道参数的响应;

The changes of global monsoon on centennial scale and its response to orbital parameters simulated by ICM; 优秀硕士论文;

目前工作单位: 国家气象局博士后;

*董丹宏: 2015 年 6 月 18 日 (答辩日期)

董丹宏 (资料分析); 本科毕业院校: 成都信息工程大学;

硕士论文题目: 全球背景下中国区域温度随海拔高度变化的时空分析;

Temperature trend-altitude relationship in China under the background of global warming; 获成都信息工程大学优秀硕士论文;

目前: 中国科学院大气物理研究所博士后;

*胡莉梭: 2016 年 5 月 11 日 (答辩日期)

胡莉梭 (极端天气气候); 本科毕业院校: 南京信息工程大学;

硕士论文题目: 中国及北半球极端高温的时空变化特征及其与大气环流的联系;

Spatial and temporal features of summer extreme temperature over China and Northern Hemisphere and links with atmospheric circulation; 优秀硕士论文;

目前工作单位: 国家自然资源部第二海洋研究所卫星海洋环境动力学国家重点实验室印度洋中心助理研究员;

*赵文灿: 2016 年 6 月 7 日 (答辩日期)

赵文灿 (污染动力学); 本科毕业院校: 成都信息工程大学;

硕士论文题目: 风场对北京城区夏季污染影响及其机理分析;

Wind field effect on urban Beijing's summer pollution and its mechanism;

目前工作单位：南京气象公司；

*尤婷: 2017 年 6 月 8 日（答辩日期）

尤婷（污染动力学）；本科毕业院校：成都信息工程大学；

硕士论文题目：北京空气质量变化的局地气象条件和区域环流背景；

Meteorological Conditions and Regional Meteorological Patterns for air Pollution in Beijing;

目前工作单位：国家气象局华丰；

*王素: 2019 年 5 月 23 日（答辩日期）

王素（环境工程）；本科毕业院校：成都信息工程大学；

硕士论文题目：中国蓝的定义及时空演变特征，Chinese Blue Days: A novel index and spatiotemporal variations;

目前工作单位：中国科学院大气物理研究所博士入学；

*陈琳: 2019 年 5 月 23 日（答辩日期）

陈琳（海气与季风）；本科毕业院校：成都信息工程大学；

硕士论文题目：北京空气质量变化的局地气象条件和区域环流背景；

Meteorological Conditions and Regional Meteorological Patterns for air Pollution in Beijing;

目前工作单位：内蒙古自治区气象局；

*刘映雪: 2020 年 5 月 21 日（答辩日期）

刘映雪（大气科学）；本科毕业院校：兰州大学；

硕士论文题目：热带海温对亚马逊南半球冬季降水年际变率的影响及机制，The influence of tropical sea surface temperature on interannual rainfall variability over amazon in austral winter and the mechanism;

目前工作单位：德国 AWI 读博

*李思萱: 2020 年 5 月 14 日（答辩日期）

李思萱（环境工程）；本科毕业院校：中国海洋大学；

硕士论文题目：基于能见度和大气化学传输模型反演近地面细颗粒物浓度，Retrieval of surface fine particle mass concentrations using visibility measurements and chemical transport model simulations;

目前工作单位：北师大攻读博士学位；

*苗昊泽予: 2020 年 6 月 10 日（答辩日期）

苗昊泽予（大气科学）；本科毕业院校：成都信息工程大学；

硕士论文题目：北半球地面风速和风功率密度的多套再分析和 CMIP6 模式资料评估，Evaluation of Northern Hemisphere surface wind speed and wind power density in multiple reanalysis datasets and CMIP6 model datasets;

目前工作单位：南京信息大学攻读博士学位（客座大气所）

*汪亚: 2020 年 5 月 21 日（答辩日期）

汪亚（大气科学）；本科毕业院校：南京信息工程大学；

硕士论文题目：基于模式的南极冬季地表气温多年代际趋势内部变率研究，Internal Variability in Multidecadal Trends of Surface Air Temperature over Antarctica in Austral Winter in model simulations;

目前工作单位：中科院大气所攻读博士学位

*李欢欢: 2020 年 6 月 10 日（答辩日期）

李欢欢（大气科学）；本科毕业院校：广东海洋大学；

硕士论文题目：小冰期以来西太平洋暖池海温对欧亚干湿协同变化的影响，
Influences of West Pacific Warm Pool Sea Surface Temperature on Covarying
Eurasian Droughts Since the Little Ice Age;

目前工作单位：福州市气象局

*李思睿: 2021 年 6 月 2 日（答辩日期）

李思睿（极地气候）；本科毕业院校：成都信息工程大学；

硕士论文题目：CMIP6/CMIP5 多模式对极地海冰的模拟研究

An assessment of Arctic and Antarctic sea ice simulation in CMIP6 and CMIP5
model

目前工作单位：中国海洋大学攻读博士（客座大气所）；

博士 24 名（胡开明，屈侠，刘永，杜振彩，温冠环，王林，陶炜晨，姚帅磊，赵桂洁，陈思思，梁丹青，王志彪、朱丽华、姜文萍、董丹宏，胡莉梭，刘波，周士杰，田群，马晓帆，周春江，汪亚，王秋琳，王素）：

*胡开明：2010 年 5 月 14 日（答辩日期）

胡开明（印度洋海气相互作用）；本科毕业院校：南京信息工程大学应用气象系；
博士论文题目：热带印度洋对西北太平洋和东亚夏季气候的影响及其年代际变化；

获 2011 年度中国科学院大气物理研究所优秀博士学位论文，并获 **2012 年度中国科学院优秀博士学位论文**。

目前工作单位：中国科学院大气物理研究所，研究员，青年实验室成员，博士生导师，LASG 国家重点实验室流动站成员；

*屈侠：2011 年 5 月 16 日（答辩日期）

屈侠（印度洋海气相互作用）；本科毕业院校：南京信息工程大学应用气象系；
博士论文题目：热带印度洋海温对南亚高压年际和年代际变化的影响及其数值模拟；

An Interdecadal Change of Summer Rainfall over Eastern China around the
late-1990s and Associated Mechanism;

优秀博士学位论文；获 2012 年度中国科学院大气物理研究所优秀博士学位论文，并获 **2013 年度中国科学院优秀博士学位论文**。

目前工作单位：中国科学院大气物理研究所，副研究员，青年实验室成员，硕士生导师，LASG 国家重点实验室流动站成员，获 2013 年度青藏高原青年科技奖；

*杜振彩：2011 年 10 月 28 日（答辩日期）

杜振彩（亚洲季风变化及其模拟）；本科毕业院校：解放军理工大学气象系；
博士论文题目：亚洲季风区降水及云系特征的分析模拟及其未来趋势预估；

Analysis and Simulation of the Characteristics of Precipitation and Cloud System in
the Asian Monsoon Region and Projection of Their Change Trend;

优秀博士学位论文

目前工作单位：总参气象水文空间天气总站

*刘永：2012 年 5 月 14 日（答辩日期）

刘永（东亚年代际变化）；本科毕业院校：云南大学气象系

博士论文题目：我国东部夏季降水在 20 世纪 90 年代末的年代际变化及其机理；

An Interdecadal Change of Summer Rainfall over Eastern China around the
late-1990s and Associated Mechanism;

优秀博士论文

目前工作单位：中国科学院大气物理研究所，副研究员，硕士生导师

*王林：2014 年 5 月 9 日（答辩日期）

王林（干旱化）；本科毕业院校：南京信息工程大学应用气象系；

博士论文题目：干旱指标的发展以及中国西南干旱的未来预估和成因分析；

Development of drought index, future projected changes and possible causes of severe drought in Southwest China; 优秀博士论文；获得 **2014 年度中国科学院大气物理研究所优秀博士学位论文**

目前工作单位：中国科学院大气物理研究所东亚中心，副研究员，硕士生导师

*温冠环：2014 年 5 月 13 日（答辩日期）

温冠环（极端气候）；本科毕业院校：中山大学环境科学与工程学院；

博士论文题目：中国与全球小降水事件近几十年的变化趋势及未来预估

The trends of light precipitation events over China and the world in recent decades and in the future; 优秀博士论文；

目前工作单位：中国气象局广州热带海洋气象研究所副研究员；

*陶炜晨：2016 年 5 月 11 日（答辩日期）

陶炜晨（海气相互作用）；本科毕业院校：南京信息工程大学；

博士论文题目：热带印度洋-太平洋海温模态间的相互作用及其在全球变暖背景下的变化

Interaction between tropical Indian Ocean and Pacific sea surface temperature modes and its change under global warming; 优秀博士论文；

目前工作单位：中国科学院大气物理研究所 LASG，副研究员，硕士生导师；获 2016 年度中国科学院大气物理研究所优秀博士论文，同时获得 2016 年度“支持‘率先行动’中国博士后科学基金会与中国科学院联合资助优秀博士后项目”以及中国博士后科学基金第 60 批面上资助

*姚帅磊：2017 年 5 月 10 日（答辩日期）

姚帅磊（海气相互作用）；本科毕业院校：兰州大学；

博士论文题目：近百年以来热带海温的多年代际变化及其对全球变暖的贡献

The multi-decadal variations in the tropical sea surface temperature and its impacts on the global warming during the 20th century and the early 21st century; 优秀博士论文；

目前工作单位：在大气所做博士后；获 2017 年度中国科学院大气物理研究所优秀博士论文，并获 **2018 年度中国科学院优秀博士论文** 以及 2018 年度全国博士后创新人才支持计划资助(全国仅 3 百人)，多次获国家奖学金和三好学生等奖励,发表第一作者 Nature climate change 一篇。

*赵桂洁：2017 年 5 月 25 日（答辩日期）

赵桂洁（东亚夏季风及短期气候预测）；本科毕业院校：中国海洋大学；

博士论文题目：基于高层环流指数的东亚夏季风变异、预测和预估；

East Asian Summer Monsoon Variability, Prediction and Projection Based on An Upper-Level Circulation Index; 优秀博士论文；

目前工作单位：北京市气象局；

*陈思思：2017 年 5 月 25 日（答辩日期）

陈思思（极端高温及预测）；本科毕业院校：成都信息工程大学；

博士论文题目：中国东部夏季极端高温的时空分布特征及其可能成因；

Spatial and Temporal Features of Summer High Temperature Extremes over Eastern China and their Possible Reasons; 优秀博士论文;

目前工作单位: 成都市气象局;

*梁丹青: 2017 年 5 月 31 日 (答辩日期)

梁丹青 (航空气象); 本科毕业院校: 解放军理工大学;

博士论文题目: 基于时间滞后多模式集合的航空高影响天气概率预报研究;

Research of Aviation High Impact Weather Probability Forecast Using Time-lagged Multimodel Ensembles Techniques; 优秀博士论文;

目前工作单位: 空军装备研究院航空气象防化研究所;

*王志彪: 2018 年 5 月 21 日 (答辩日期)

王志彪 (青藏高原气象学); 本科毕业院校: 成都信息工程大学;

博士论文题目: 青藏高原积雪变化的特征、原因和影响; ; 优秀博士论文;

目前工作单位: 中科院大气物理所攻读博士后;

*朱丽华: 2018 年 5 月 29 日 (答辩日期)

朱丽华 (青藏高原气象学); 本科毕业院校: 成都信息工程大学;

博士论文题目: 青藏高原感热变化及其对全球变暖不同阶段的响应; 优秀博士论文;

目前工作单位: 成都信息工程大学助理教授;

*姜文萍: 2018 年 5 月 29 日 (答辩日期)

姜文萍 (海气动力学); 本科毕业院校: 中国海洋大学;

博士论文题目: ENSO 的衰退演变对西北太平洋夏季风的影响及其对全球变暖的响应; 优秀博士论文;

目前工作单位: 河海大学助教;

*董丹宏: 2019 年 5 月 23 日 (答辩日期)

董丹宏 (海气与季风动力学); 本科毕业院校: 成都信息工程大学;

博士论文题目: ENSO 的衰退演变对西北太平洋夏季风的影响及其对全球变暖的响应; 优秀博士论文; 获 2019 年度中国科学院大气物理研究所优秀博士论文

目前工作单位: 中国科学院大气物理研究所博士后; 获 2019 中国科学院特别研究助理项目资助

*胡莉梭: 2019 年 5 月 23 日 (答辩日期)

胡莉梭 (海气与季风动力学); 本科毕业院校: 南京信息工程大学;

博士论文题目: 中非地区极端高温的变化特征及其机制研究; Variability and its mechanism of extreme temperatures in Central-Africa; 优秀博士论文;

目前工作单位: 国家自然资源部第二海洋研究所卫星海洋环境动力学国家重点实验室印度洋中心助理研究员 (杭州); <https://www.soed.org.cn/zcry/3558.html>, hulisuo@sio.org.cn

*刘波: 2019 年 5 月 23 日 (答辩日期)

刘波 (海气与季风动力学); 本科毕业院校: 成都信息工程大学;

博士论文题目: ICM 气候模式的发展及其对东亚夏季风模拟和 ENSO 预测研究; The Development of Intergrated Climate Model (ICM) and its application in the simulation of East Asian Summer Monsoon and ENSO prediction; 优秀博士论文;

目前工作单位: 国家气象局中国气象局地球系统数值预报中心助研;

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Climatic effects of regional production and consumption-related sulfate aerosols;

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主页：

<https://sss.bnu.edu.cn/szdw/rcxm/xsjrcxm/906c4c3fafbf483988b938c05cefc629.htm>

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