



Zhu Meifang

Professor Meifang Zhu, Member of the Chinese Academy of Sciences, TWAS Fellow. Currently, she is the dean of the College of Materials Science and Engineering and the director of the State Key Laboratory for Modification of Chemical Fibers and Polymer Materials at Donghua University. She also serves as the vice-president for the Chinese Materials Research Society (C-MRS), for the Chinese Association of Women Scientific Workers, as well as the Editor-in-Chief for Advanced Fiber Materials. Prof. Zhu has long been engaged in the research of functional fibers, nanofibers and intelligent fiber materials, organic/inorganic hybrid materials. She published 10 books (chapters) and more than 500 SCI papers in peer-reviewed journals. She is also the author or co-author for more than 300 National Invention Patents. Her honors and awards include Second Prize of National Award for Technological Inventions, Second Prize of National Award for Progress in Science and Technology, National Innovation Competition Award, First Prize of Shanghai Natural Science Award, etc.

朱美芳

东华大学材料科学与工程学院院长、纤维材料改性国家重点实验室主任，中国科学院院士。兼任中国材料研究学会副理事长、中国女科技工作者协会副会长、《Advanced Fiber Materials》主编等职位。长期从事纤维材料的功能化、绿色化、智能化和高性能化研究工作，承担完成国家重点研发计划等科研项目 40 余项，出版著作 10 部（章），发表论文 500 余篇，获授权发明专利 300 余件。曾获国家技术发明二等奖、国家科技进步二等奖、国家教学成果二等奖、首届全国创新争先奖状、上海市自然科学一等奖等 20 余项奖励



YANG Wei

Member of Chinese Academy of Sciences, an Honorary Member of CAST, a Fellow of The World Academy of Sciences (TWAS), a Foreign Member of National Academy of Engineering (USA), a Professor of Zhejiang University, the Founding Chair of CAST UN Consultative Committee on Open Science and Global Partnership (CCOS). He served as the President of Zhejiang University, and the President of National Natural Science Foundation of China. His current areas of expertise include Solid Mechanics, X-Mechanics, Aero-Astro Structures, Graduate Education, Research Integrity. He dedicates on promoting open science in Global South recently.

杨卫

中国科学院院士，中国科协荣誉委员，发展中国家科学院（TWAS）院士，美国工程院外籍院士，浙江大学教授，中国科协联合国咨商开放科学与全球伙伴专委会主席（CCOS），曾任浙江大学校长、国家自然科学基金委员会主任等职。主要从事的专业领域包括：固体力学、交叉力学、空天结构、研究生教育、研究诚信，近年来致力于推广发展中国家的开放科学实践。



YAN Xiyun

Member of the Chinese Academy of Sciences, Member of the TWAS. Dr. Yan's research group focuses on precision cancer treatment, with emphasis on studies related to selecting new targets for tumors, finding new material for drug delivery and developing new strategies to combat cancer. Dr. Yan's original research, published in 2007, has received widespread recognition, accumulating over 5,000 citations. Her work has paved the way for the emergence of the interdisciplinary field of nanozymes, bridging the disciplines of enzymology, chemistry, materials science, biology, and medicine. The research on nanozymes has expanded from laboratory settings to clinical and agricultural applications. The significance of nanozymes has been acknowledged by Clarivate, which designated it as a "key hot frontier" in 2022. Additionally, the International Union of Pure and Applied Chemistry (IUPAC) recognized Nanozyme as one of the top ten new technologies in 2022. Dr. Yan's innovative contributions in the discovery and application of nanozymes have earned her a position among the top 2% of highly cited scientists worldwide in 2022, 2023 and 2024. In 2012, she was awarded the second prize of the State Natural Science Award and received the Atlas Award, 2015.

阎锡蕴

中国科学院院士、发展中国家科学院院士。她发现纳米酶、开拓新领域。自 2007 年首次报道纳米酶以来，全球 50 多个国家的 450 个研究单位发表了 13000 余篇纳米酶研究论文，证实了这一奇特的纳米催化效应。如今，纳米酶已纳入教科书和《中国大百科全书》。作为一类新型生物催化剂，纳米酶兼具天然酶和化学催化的力量，其应用研究涉及催化医学、农业和中草药、绿色合成及新能源等多个领域，市场前景广阔。国际组织 IUPAC 认为纳米酶的应用潜能符合可持续发展的全球战略，将其遴选为 2022 年度“全球十大新技术”。同时，科睿唯安-中国科学院宣布纳米酶为前沿交叉学科。阎锡蕴团队巧妙利用纳米酶独特性，发明 47 项新技术，实现多项成果转化。纳米酶曾获国家自然科学基金二等奖及 Atlas 国际奖，她本人获全国创新争先奖、谈家桢生命科学成就奖、何梁何利基金科学与技术进步奖，全球 2% 顶尖科学家。



SUN Lili

Member of the Chinese Academy of Engineering (CAE). Sun Lili is an expert in refining and petrochemical engineering. She is awarded as the China National Engineering Survey and Design Master, and Chief Scientist of China Petrochemical Corporation (Sinopec Group). She also serves as the Vice President of Beijing Association for Science and Technology (BAST). Her research mainly focuses on oil refining and petrochemical process reconfiguration, and multi-energy integrated utilization. Sun Lili has been long engaged in the research and practice of oil and petrochemical engineering. She was taking the lead in addressing technological bottlenecks in SINOPEC Aromatics Suite Technology. She made significant breakthrough in developing an integrated process technology conversing crude oil to petrochemicals in a clean and highly efficient way. Madame Sun also overcome the worldwide challenges of natural gas purification with high-acid content in large-scale. Madame Sun has been awarded 2 Special Grand Prizes and 2 Second Prizes of National Science and Technology Progress Award, Science and Technology Innovation Award from Ho Leung Ho Lee Foundation, and Hou Debang Chemical Science and Technology Achievement Award. She holds more than 60 authorized patents.

孙丽丽

炼化工程专家，中国工程院院士，全国工程勘察设计大师，中国石油化工集团有限公司首席科学家，北京市科学技术协会副主席（兼）。研究方向：炼化流程再造与多能耦合利用。长期从事石化工程的研究与实践，主持攻克了高效环保芳烃“卡脖子”技术，在原油高效清洁转化技术集成创新上取得重大突破，解决了高酸天然气大规模安全高效净化处理的世界性难题。获国家科技进步特等奖 2 项、二等奖 2 项；获何梁何利基金科学与技术创新奖、侯德榜化工科学技术成就奖；获授权专利 60 余项。



TU Shandong

Prof. Shandong Tu (Shan-Tung Tu) received his Ph.D degree in 1988 from Nanjing Tech University. He is a member of the Chinese Academy of Engineering and serves as a distinguished professor at East China University of Science and Technology and a chair professor at Nanjing Tech University. Prof. Tu has devoted his research to the area of high temperature engineering, including thermal effect on materials, structural integrity assessment and design of high temperature equipment against failures. He has authored over 400 papers and received a number of distinguished awards, including China National Science and Technology Progress Award, National Technology Invention Award, China Youth Science and Technology Award, ASME Best Paper Award, among others. He has been a fellow of The Chemical Industry and Engineering Society of China (since 2020), the honorary president of Chinese Pressure Vessel Institution (since 2010) and the honorary president of Chinese Materials Institution (since 2015) of China Mechanical Engineering Society, Chairman of China Structural Integrity Consortium, Chairman of Asian Oceanic Regional Committee of International Council for Pressure Vessel Technology, and a member of reliability committee of IFToMM. He is currently an honorary professor of the University of Nottingham. He is also serving as an editorial board member for a number of journals, including Applied Energy, Adv. Applied Energy, Int J Pres Ves and Piping, J of Materials Science and Technology, Frontiers of Chemical Sciences and Engineering, and so on. Prof. TU is also a well-known engineering educator in China. He actively advocates the philosophy of total engineering education and engineering ethics education including the implementation of the oath of engineering graduates. Professor TU's dedication to teaching excellence has been recognized with two national awards for teaching achievements.

涂善东

涂善东教授于 1988 年南京化工学院化工机械专业获工学博士学位；现任华东理工大学教授，南京工业大学可靠性制造研究院名誉主任，中国工程院院士。兼任国际压力容器学会亚大地区主席、国际机构学与机器科学联合会可靠性委员会委员、先进材料和标准凡尔赛合作组织分技术委员会共同主席、英国诺丁汉大学荣誉教授等，还担任了 Int. J. Pres. Ves. & Piping、FFEMS、应用能源等期刊编委。长期从事化工装备安全、高温强度学、先进能源材料与装备等研究工作，倡导全面工程教育。先后获国家科技进步一等奖 1 项，国家科技进步二等奖 3 项，国家发明二等奖 1 项，国家教学成果二等奖 1 项，省部级特等奖、一等奖 10 项。



George F. Gao

Dr. Gao obtained his DPhil degree from Oxford University, UK and completed his postdoc work in both Oxford University and Harvard University (with a brief stay in Calgary University). He is the former director of the Chinese Center for Disease Control and Prevention, and the former vice-president of the National Natural Science Foundation of China (NSFC). Currently, he is working as a professor at the Institute of Microbiology, Chinese Academy of Sciences AND China CDC. As a prominent leader in the field of public health/virology/immunology, Dr. Gao has made significant contributions to research and discovery through fundamental research, clinical evaluation, and advocacy, esp. on interspecies transmission mechanism of influenza and coronaviruses. His work has greatly advanced the scientific understanding of controlling and preventing emerging infectious diseases. His contributions extend not only to basic life and medical sciences but also to clinically relevant preventive medical sciences and public health, as evidenced by his publications in leading scientific journals, including *Nature*, *Science*, *Cell*, *The Lancet*, and *The New England Journal of Medicine* (H-index: 140). During the COVID-19 outbreak, he co-discovered the SARS-CoV-2 virus, and pioneered the development of the world's first approved neutralizing antibody drug (Etesivimab) and the first approved recombinant protein subunit vaccine (ZF2001) for COVID-19. He has played a pivotal role in data sharing, advocacy and virus discovery in COVID-19 pandemic. Dr. Gao is an elected academician/fellow in several national/international academies, including Chinese Academy of Sciences (CAS), U.S. National Academy of Sciences (NAS), U.K. Royal Society (RS), German National Academy of Sciences Leopoldina, African Academy of Sciences, The World Academy of Sciences (TWAS). He has received several prestigious awards, including the TWAS Basic Medical Sciences Award and Lecture Award, the Nikkei Asia Prize in Japan, and the Gamaleya Medal in Russia. He was awarded honorary doctor degrees from Macau City University and Uzbekistan Higher Education Ministry. He is also a leading figure of science communications, the founding editor-in-chief of both *China CDC weekly* and *hLife* scientific journals, a co-founding editor-in-chief of *Protein and Cell*. He is currently the editor-in-chief of *Science Bulletin* and *Chinese Science Bulletin* (In Chinese).

高福

病原微生物与免疫学家，中国科学院院士。中国科学院微生物研究所学术委员会主任、中国科学院病原微生物与免疫学重点实验室主任、中国生物工程学会理事

长、中华医学会副会长、中国疾控中心研究员、香港高等研究院（香港城市大学）高级研究员。曾任国家自然科学基金委员会副主任、中国疾病预防控制中心主任、中国科学院大学存济医学院院长、中国科学院微生物研究所所长等。他长期从事病原微生物跨宿主传播、感染机制与宿主细胞免疫研究及公共卫生政策与全球健康策略研究，在流感、莫斯、埃博拉、寨卡、基孔肯亚、新冠和猴痘等病毒研究中取得了一系列重大成果，为中国新发突发传染病的防控及基于病毒囊膜蛋白与宿主互作的药物与疫苗设计做出了突出贡献。他是新冠病毒的发现者、是研发全球首个临床获批使用的新冠病毒中和抗体药物和第一个获批使用的新冠病毒重组蛋白亚单位疫苗的先锋者。曾主持多项国家重大科研项目，如国家自然科学基金“创新研究群体”项目等。在 SCI 国际刊物上发表 900 多篇研究论文（H 指数：142），获得授权发明专利 90 多项。曾获中国科协首届青年科技奖、中国科学院杰出成就奖、发展中国家科学院基础医学奖和讲演奖、谈家桢生命科学创新奖和成就奖、国家科学技术进步奖、何梁何利基金科技进步奖、全国杰出科技人才奖、全国创新争先奖、日本日经亚洲奖（Nikkei Asia Prize）、俄罗斯加马列亚奖章（Gamaleya Medal）等奖励。他被授予澳门城市大学、乌兹别克斯坦高等教育部名誉博士。选举的学术院士/会士：中国科学院 院士；美国国家科学院 外籍院士；美国国家医学科学院 外籍院士；英国皇家学会 外籍会士；发展中国家科学院 院士；美国微生物科学院 院士；欧洲分子生物学组织 外籍院士；美国科学促进会 会士；爱丁堡皇家学会 外籍院士；非洲科学院 院士；国际欧亚科学院 院士；巴西国家科学院 通讯院士；德国国家科学院 院士；欧洲科学院 院士；俄罗斯科学院外籍院士；中国医学科学院学部委员；中国中医科学院学部委员。



LI Hui

Professor of School of Civil Engineering and School of Artificial Intelligence at Harbin Institute of Technology. She is the member of China Academy of Science and member of the Third World Academy of Sciences. Her research interests include Artificial Intelligence for civil engineering and fluid mechanics, and meta-materials. She is the author/coauthor of more than 200 Journal papers and keynote lectures. She has been the president of International Association for Structural Control and Monitoring, and now is the president of ANCRiSST. She is the receipt of National Prize of Science and Technology, and ASCE G W Housner Medal and R H Scanlan Medal, as well as 2015 Structural Health Monitoring Person of The Year.

李惠

哈尔滨工业大学土木工程学院与计算学部人工智能学院 教授，中科院院士、发展中国家科学院院士，长期从事土木工程智能科学与技术、智能流体力学与超材料研究，发表论文 200 余篇，曾任国际结构控制与监测学会 理事长、现任亚太智能结构技术学会理事长，获国家科技进步奖、美国土木工程师协会 G W Housner 奖章和 R H Scanlan 奖章、以及国际结构健康监测年度人物奖。



DUAN Huiling

Prof. Huiling Duan is a Boya Chair Professor and the Dean of the College of Engineering at Peking University, a member of the Chinese Academy of Sciences, a fellow of the American Society of Mechanical Engineers (ASME). Her main research interests lie in interface mechanics and fluid-structure interaction mechanics. She published more than 240 peer-reviewed papers in high-level academic journals such as Nature Commun., Science Advances, Proc. Natl. Acad. Sci., Phys. Rev. Lett., J. Mech. Phys. Solids, J. Fluid Mech., etc. She has received prestigious awards including the Alexander von Humboldt Research Award of Germany (2023), the second prize of the State Natural Science Award (2020), National Innovation Award of China (2023), National "March 8th" Women Pioneer Award (2022), National Outstanding Young Scholar of China (2015), National Outstanding Young Female Scientist of China (2014), etc. Currently, she serves as Member of the International Union of Theoretical and Applied Mechanics (IUTAM) Symposia Panel for Solid Mechanics, Executive Member of Global Engineering Deans Council, Steering Committee of the Asian Engineering Deans Summit, Standing Committee of the Chinese Society of Theoretical and Applied Mechanics (CSTAM).

段慧玲

北京大学博雅讲席教授、工学院院长，中国科学院院士，美国机械工程师学会会士 (ASME Fellow)。从事界面力学、流固耦合力学研究，在 Nature Communications、Science Advances、PNAS 等国际主流期刊发表论文 240 多篇。获德国洪堡研究奖、国家自然科学基金二等奖、全国创新争先奖、全国三八红旗手、中国青年科技奖、中国青年女科学家奖等。任中国力学学会常务理事、女工委主任，国际理论与应用力学联盟 (IUTAM) 固体力学委员会委员，国际工学院院长理事会委员。



CHEN Ruiai

CHEN Ruiai is an expert on animal disease prevention and control, a national scientific and technological innovation leader, a national expert on “Hundred, Thousand, Ten Thousand Project”, and an expert on the special government allowance of The State Council. She is now a professor and Ph.D. supervisor of South China Agricultural University, chairman and chief scientist of Zhaoqing Dahuanong Biopharmaceutical Company, and director of Zhaoqing Branch of Guangdong Provincial Laboratory of Lingnan Modern Agricultural Science and Technology. She has long carried out research on animal disease prevention and control technology and industrialization of achievements. She developed 39 kinds of new animal vaccines and prevention and control preparations such as avian influenza vaccine, chicken Marek’s disease vaccine, African swine fever diagnostic reagents, and won 4 new veterinary drugs of the first class, 98 invention patents authorized, and 2 Chinese Patent Excellence awards. The scientific research achievements have been promoted and applied throughout the country and in Southeast Asia, the Middle East and other neighboring countries of the “Belt and Road”, with remarkable economic and social benefits.

陈瑞爱

动物病防控专家，国家科技创新领军人才、国家百千万工程专家、国务院政府特殊津贴专家。现是华南农业大学教授、博士生导师，肇庆大华农生物药品有限公司董事长兼首席科学家，岭南现代农业科学与技术广东省实验室肇庆分中心主任。长期开展动物疫病防控技术与成果产业化技术研究。研制了禽流感疫苗、鸡马立克疫苗、非洲猪瘟诊断试剂等 39 种新型动物疫苗和防控制剂，获一类新兽药 4 个，发明专利授权 98 件，中国专利优秀奖 2 项。科研成果在全国和东南亚、中东等“一带一路”周边国家推广应用，经济社会效益显著。



CHE Wenquan

Dr. Che got her PhD from City University of Hong Kong in 2004 and had ever been the Humboldt Fellow of Germany. She is currently the professor in South China University of Technology, IEEE Fellow and distinguished scholar awarded by NSFC. She is now the elected AdCom member, the Education Committee Chair and the vice chair of the WiM Subcommittee of IEEE MTT-S. Meanwhile, she is the Editor-in-Chief of Microwave and Optical Technology Letters. Her major research interests include microwave/millimeter-wave circuits and system, MMICs and antenna technology. She has published over 300 inferred international journal papers, over 30 patents, and several scientific awards. She has been the advisor of over 100 graduates, most of whom have been the skeleton staffs in universities, institutes and well-known companies.

车文荃

获香港城市大学博士学位（2004），曾为德国洪堡学者。现为华南理工大学二级教授、博士生导师，IEEE Fellow，国家杰青。目前担任 IEEE MTT-S 行政委员会委员、教育委员会主席、女性分委会副主席，并担任国际学术杂志 Microwave and Optical Technology Letters 主编。主要从事微波毫米波电路与系统、微波毫米波集成电路、天线理论与技术等方向的研究，已发表 300 余篇高水平学术杂志论文、授权发明专利 30 余项、获省部级科技奖励多项。已培养研究生逾 100 名，多数已成长为大学、大型研究所及业内知名公司骨干。



ZHANG Wei

Ph.D., Boya Distinguished Professor of School of Life Sciences, Peking University and Peking-Tsinghua Center for Life Sciences. She received her Ph.D. degree in Botany from the School of Life Sciences, Peking University in 2011, and was a postdoctoral researcher in the Department of Ecology and Evolution at the University of Chicago from 2012-2017. She has been working at Peking University since 2018, serving as Assistant Professor (pre-tenure), Associate Professor (with tenure), and Full Professor (with tenure). She serves as a committee member of the Entomological Society of China, a committee member of the Zoological Society of China, and a vice-chairman of the Zoological Society of China Specialized Committee on Animal Evolutionary Theory. Her group integrates experimental and computational biology research methods to explore the theoretical basis and molecular mechanisms of important evolutionary issues, such as using mimicry butterflies as a model to study animal diversification and adaptation. She has received grants from the National Natural Science Foundation of China for Outstanding Youth Program, the Beijing Natural Science Foundation for Outstanding Youth Program, the National Program for Overseas High-level Talents (Youth Program), and the Feng Foundation of Biomedical Research, and was awarded the first prize of the Zhou, Yao Insect Taxonomy Award. Her research achievements have been published in *Cell*, *Nature*, *Nature Ecology and Evolution*, *Nature Communications*, *Science Advances*, etc, as corresponding/co-corresponding author or first/co-first author, recommended by Faculty 1000, and included in two textbooks (*An Introduction to Molecular Evolution and Phylogeny*, and *Introduction to Molecular Evolution and Phylogenetics and Genetics: From Genes to Genomes* (Hartwell)).

张蔚

博士，北京大学生命科学学院、北大清华生命科学联合中心 博雅特聘教授、博士生导师。2011年毕业于北京大学生命科学学院，获植物学博士学位，2012-2017年于美国芝加哥大学生态与进化系从事博士后研究，2018 至今在北京大学生命科学学院和北大清华生命科学联合中心任职，历任助理教授（预聘）、副教授（长聘）、正教授（长聘），担任中国昆虫学会理事、中国动物学会理事、中国动物学会动物进化理论专委会副主任委员等。课题组整合实验和计算生物学研究方法，探究重要进化问题的理论基础和分子机理，例如以拟态蝶类为模式研究动物多样性进化和适应机制。获得国家自然科学基金杰出青年项目、国家海外高层次人才引进计划（青年项目）、北京市自然科学基金杰出青年项目、生物医学峰基金等

资助，获得周尧昆虫分类学奖励基金一等奖。研究成果以通讯作者或者第一作者（含共同）发表在 Cell、Nature、Nature Ecology and Evolution、Nature Communications、Science Advances 等期刊，被 Faculty1000 推荐，收录入两部教科书（An Introduction to Molecular Evolution and Phylogenetics 和 Genetics: From Genes to Genomes (Hartwell)）。



LIU Xueming

Professor at the School of Artificial Intelligence and Automation, Huazhong University of Science and Technology (HUST), and a recipient of the National Science Fund for Excellent Young Scholars. She received her B.S. in Automation from HUST in 2010 and her Ph.D. in Control Science and Engineering from HUST in 2016. From 2014 to 2016, she was a visiting scholar at Boston University, and in 2019, she visited Harvard Medical School and Brigham and Women's Hospital. Her research focuses on network science, computational bioinformatics, and the application of artificial intelligence in biological systems. Her key contributions include the construction and robustness analysis of multilayer biomolecular networks, multilayer network robustness analysis, network controllability analysis, and their applications in biomolecular networks. Her research has been published as first or corresponding author in leading journals such as Nature Communications, PNAS, Physics Reports, and Engineering. She has received several prestigious awards, including the First Prize of the Hubei Provincial Natural Science Award (2022), the ACM SIGBIO China Rising Star Award (2018), and the First Prize in the HUST Faculty Teaching Competition (2020).

刘雪明

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