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Dr. Sun has been engaged in research on particle methods and its applications for almost 20 years. He has published 43 SCI/EI papers as the first or corresponding author, applied for and granted 16 invention patents. He has led one of the National Natural Science Foundation's Outstanding Youth Science Fund, one of the General, Youth, and Sino German Science Center exchange projects, and has led more than 10 key and pre research projects, including China Aerospace Science and Technology Corporation, and China Guangdong Nuclear Power Corporation.

Dr. Sun has also served the academic positions including the vice chairman of the Energy Recovery Equipment of the China General Machinery Industry Association, deputy director of the key laboratory of Deep Cryogenic Technology and Equipment for Aerospace Vehicles, and the secretary of the Fluid Machinery Committee in China Engineering Thermophysics Society. In addition, he currently serves as the deputy editor in chief of the Journal of Xi'an Jiaotong University and the editorial board member of the Journal of Drainage and Irrigation Machinery Engineering. In 2020, he served as the Chairman of the 14th World Congress on Computational Mechanics(WCCM), the 10th Asian Joint Conference on Propulsion and Power(AJCPP), and the 14th SPH research and engineering International Community (SPHERIC).