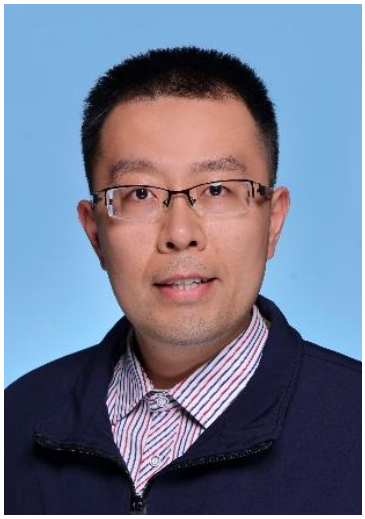
Hui Wang, professor, the deputy director of Low-carbon conversion science and engineering center in SARI. Her main research focuses on the efficient utilization of gas carbon/solid carbon resources. She is engaged in using CO_2 and waste plastics as potential carbon sources to produce high-value chemicals such as green methanol, ethanol, and aldehydes, and is working on building an "artificial carbon cycle" system. She has taken the lead in completing a 5,000 ton/y industrial demonstration of green methanol and is currently carrying out industrial applications. She has published more than 60 papers in journals such as JACS, Chem, and Angew, and has obtained more than 50 patents.



Prof. **Peng Gao's** research interests mainly focus on the conversion of carbon one molecular (CO_2, CO and CH_3OH, etc.) into chemicals and fuels via heterogeneous catalysis. He has been published in more than 80 papers in international journals such as *Nature Chemistry*, *Science Advances*, *Chem*, *Angewandte Chemie–International Edition*, *The Innovation*, and *ACS Catalysis*, which have been cited more than 7000 times (H index = 42). Peng Gao was awarded as one of the top 1% of highly cited authors in Royal Society of Chemistry journals, 2019, and World's Top 2% Scientists 2021–2024. He joined the Editorial Board of *Chinese Journal of Catalysis* in 2022, *SCIENCE CHINA Chemistry* in 2023, and *Carbon and Hydrogen* in 2024. He has obtained awards from the Catalysis Rising Star Award from the Catalysis Society of China in 2021, Shanghai Academic Research Leader in 2022, Top Young Talents in Shanghai and Shanghai Rising–Star Award in 2019, *Industrial & Engineering Chemistry Research* 2022 Excellence in Review Awards, and *Journal of Energy Chemistry* Best Reviewer Award 2021 and 2023.

Prof. **Shenggang Li** earned his Ph.D. from University of Kentucky in 2004. After spending several years working at The University of Alabama, he joined Shanghai Advanced Research Institute, Chinese Academy of Sciences in 2011. Over the past decade, he mainly worked on computational simulations of heterogeneous catalytic reactions for the production of fuels and chemicals from C1 chemicals, such as oxidative coupling of methane, CO and CO_2 hydrogenation, which leads to the computer-aided design of several indium oxide-based catalysts for CO_2 hydrogenation to methanol. He has published about 200 research papers, review articles and book chapters, and received funding from national, provincial funding agencies and commercial companies.