

TRACK CO-CHAIR BIOGRAPHY



Suihua He

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Dr. Suihua He, he is an Assistant Professor in Polymeric Nanocomposite Group at the Beijing Institute of Technology, Zhuhai. He previously worked as a postdoctoral fellow in the Advanced Materials Thrust at The Hong Kong University of Science and Technology (Guangzhou), cooperating with Prof. Ping Gao (Head of Thrust). Dr. He obtained his doctoral degree (2023) in Bristol Composites Institute at the University of Bristol supervised by Prof. Ian Hamerton (Chair of Polymer and Sustainable Composites at the UK National Composites Centre (NCC) and Fellow of the Royal Society of Chemistry), closely collaborating with Bruker Nano Surfaces & Metrology, Germany and Photothermal Spectroscopy Corp, USA. His research interests focus on elucidating the processing-structure-properties relationships in polymeric nanocomposites, with a particular emphasis on investigating the effects of flow-induced exfoliation, alignment, and self-assembled micro-nanostructures and controlled interfaces on the overall performance of materials. Currently, Dr. He is focused on the development of conductive membranes composed of ultrathin, thermally and mechanically robust aramid nanofiber-reinforced cellular nanofilms, aimed at applications in wearable electronic devices and current collectors for lithium battery systems. To date, Dr. He has authored over 20 publications and holds two granted patents. He has also served as a principal investigator for Guangdong Provincial Association for Science and Technology (GAST) Young Talent Cultivation Program, and research funding from the Henry Royce Institute and the Faculty of Engineering at the University of Bristol.