Dr Shanghai Wei

Shanghai Wei is currently a Senior Lecturer in the Department of Chemical and Materials Engineering at The University of Auckland, New Zealand, and an Associate Investigator of the MacDiarmid Institute for Advanced Materials and Nanotechnology. He obtained his PhD in Chemical and Materials Engineering in 2014. His research spans electrochemical engineering, industrial electrochemical processes, and electrochemical technologies, integrating fundamental electrochemistry with engineering applications and industrial implementation.

His research interests include electrochemical process engineering, electrochemical energy storage, electrochemical deposition and coating technologies, corrosion and surface engineering, and industrial electrolysis. He has conducted both fundamental and broad industry-focused research across these areas. His work focuses on understanding and engineering electrochemical interfaces and processes to improve performance, efficiency, and sustainability in industrial and energy applications. Through collaborations with industrial partners, he has addressed practical challenges in materials performance, process optimisation and technology development.

Dr Wei has actively contributed to the international electrochemical community through research publications, conference presentations, and professional service. He served as Guest Editor of a Special Issue of Electrochimica Acta and has regularly presented his research at ISE Annual Meetings and ISE Topical Meetings. His publications in Electrochimica Acta and other leading journals have contributed to advances in electrochemical engineering, electrochemical technologies, and energy storage systems.