

"N.-H. Linda Wang is the Drs. Norman and Jane Li Professor of Chemical Engineering at the Davidson School of Chemical Engineering, Purdue University. She is internationally recognized for her pioneering contributions to chemical and biochemical conversion and purification. She is a Fellow of the American Institute for Medical and Biological Engineering (2000), the American Institute of Chemical Engineers (2011), and the National

Academy of Inventors (2021). Her research group developed the first sequential extraction and simulated moving bed processes for recovering pristine polycarbonate and flame retardants from electronic polymer waste. They also introduced the first batch and continuous low-pressure hydrothermal processing (LP-HTP) methods for converting polyolefin and polystyrene waste into oils and fuels. Dr. Wang's team pioneered the first digital process twin simulation tool for batch and continuous chromatography, which was licensed to 11 companies and three national laboratories. This tool was instrumental in designing nuclear waste treatment processes and removing cesium from contaminated seawater in Fukushima, Japan. In collaboration with Argonne National Laboratory, her team developed a novel capture and purification method for producing a medical isotope precursor for diagnostics. Shine Medical Technologies adopted this method to produce the isotope from low-enriched uranium (non-weapon grade). Her group also advanced chromatography purification techniques for extracting pure rare earth elements (REEs) from waste magnets and REE concentrates, as well as pure battery materials from spent batteries and mineral ores. These innovative purification methods were licensed to ReElement Technologies (Fisher, Indiana), which is scaling up commercial production at the Advanced Technology Center in Marion, Indiana."