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D.Sc. (Tech.), Docent Marjatta Louhi-Kultanen is a professor (Assoc. Prof., tenure track) of Chemical Engineering in Aqueous Systems in the School of Chemical Engineering at Aalto University. Her new research group initiated at Aalto in 2017. Earlier she worked as a professor of Thermal Unit Operations at Lappeenranta University of Technology. The main themes in the chemical engineering research of Prof. Louhi-Kultanen have been research on purification and separation of inorganic and organic compound systems by crystallization from solution and from melt. Furthermore, she has abundant experience on wastewater treatment based on natural freezing, eutectic freeze crystallization, cold plasma technology (gas-phase Pulsed Corona Discharge), photocatalysis and adsorption. Her research on Advanced Oxidation Process has also focused on chemical modification by PCD oxidation. Her research on realtime process monitoring has focused on inline spectroscopic (ATR FTIR, Raman) and particle size distribution analysis methods. She is a member of the Working Party of Crystallization in European Federation in Chemical Engineering (EFCE).