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D.Sc. (Tech.) Marjatta Louhi-Kultanen is an Associate Professor (tenured) of Chemical Engineering in Aqueous Systems in the Department of Chemical and Metallurgical Engineering at School of Chemical Engineering of Aalto University. The main themes in the chemical engineering research of Assoc. 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).