Catinca Secuianu is Professor at the Department of Inorganic Chemistry, Physical Chemistry & Electrochemistry of University Politehnica of Bucharest. She graduated the Technology of Organic Substances at University Politehnica of Bucharest, followed by Advances Studies in Applied Thermodynamics & Electrochemistry at the same university. Catinca received her PhD in 2004 from the University Politehnica of Bucharest in Chemical Engineering. Dr. Secuianu spend two years as post-doctoral Research Fellow at the Department of Chemical Engineering & Qatar Carbonates and Carbon Storage Research Centre, Imperial College London in the group of Prof. Martin Trusler. Dr. Secuianu has a habilitation thesis in Chemical Engineering at the University Politehnica of Bucharest. Professor Secuianu is the Romanian delegate at the Working Party on Thermodynamics and Transport Properties of the European Federation of Chemical Engineering, member of the Steering Committee of the European Symposium on Applied Thermodynamics (ESAT), Physical Chemistry editor for Open Chemistry (De Gruyter), member of the Editorial board of International Journal of Liquid State Sciences, chair of the ESAT 2017 (Bucharest, Romania), Vice-Chair (2013, 2015) for the Romanian International Conference on Chemistry & Chemical Engineering (RICCCE), Reviewer for over 30 leading international journals. Her research interests are in the field of physical chemistry, applied thermodynamics, energy (measurements and modelling of phase behavior at high-pressures, thermophysical properties at high and ambient pressures, CCS, CCUS, equations of state, thermodynamic models).