Selected publications (Etelka Tombacz):

E. Tombácz, I. Y.Tóth, D. Nesztor, E. Illés, A. Hajdú, M. Szekeres, L.Vékás: *Adsorption of organic acids on magnetite nanoparticles, pH-dependent colloidal stability and salt tolerance*, Colloids and Surfaces A: Physicochemical and Engineering Aspects, 435(2013) 91-96.

I.Y.Tóth, E.Illés, R.A. Bauer, D.Nesztor, I.Zupkó, M.Szekeres, E.Tombácz: *Designed polyelectrolyte shell on magnetite nanocore for dilution-resistant biocompatible magnetic fluids*, Langmuir, 28(48), 16638–16646. 2012.

A.Majzik, E.Tombácz: *Interaction between humic acid and montmorillonite in the presence of calcium ions II. Colloidal interactions: charge state, dispersing and/or aggregation of particles in suspension*, Organic Geochemistry, 38 (2007) 1330–1340.

E. Illés, E. Tombácz: *The effect of humic acid adsorption on pH-dependent surface charging and aggregation of magnetite nanoparticles*, J. Colloid Interface Sci., 295, 115-123. 2006.

E. Tombácz, M. Szekeres: *Colloidal behavior of aqueous montmorillonite suspensions: the specific role of pH in the presence of indifferent electrolytes*, Applied Clay Science, 27, 75-94. 2004.

E. Tombácz, Zs. Libor, E. Illés, A. Majzik and E. Klumpp: *The role of reactive surface sites and complexation by humic acids in the interaction of clay mineral and iron oxide particles*, Organic Geochemistry, 35, 257-267. 2004.

E. Tombácz: *Effect of environmental relevant organic complexants on the surface charge and the interaction of clay mineral and metal oxide particles*. In: Bárány, S. (Ed.), Role of Interfaces in Environmental Protection. NATO ASI Series IV: Earth and Environmental Sciences – Vol. 24, Kluwer Academic Publisher, Dordrecht, 2003, pp. 397-424.

E. Tombácz: *Adsorption from Electrolyte Solutions*, Ch.12. In: Adsorption: Theory, Modeling, and Analysis (Ed. J. Tóth), Marcel Dekker, New York, 2002. pp. 711-742.

E.Tombácz, M.Szekeres: *Interfacial acid-base reactions of aluminium oxide dispersed in aqueous electrolyte solutions. Part 1. Potentiometric study on the effect of impurity and dissolution of solid phase,* and ibid, E.Klumpp: *Part 2. Calorimetric study on ionization of surface sites*, Langmuir, 17, 1411-1419 and 1420-1425. 2001.

E.Tombácz: *Colloidal properties of humic acids and spontaneous changes of their colloidal state under variable solution conditions*, Soil Science, 164, 814-824, 1999.

Tombácz,E., Ma,C.,Busch,K.W., Busch,M.A.: *Effect of weak magnetic field on hematite sol in stationary and flowing systems*, Colloid and Polymer Science, 269, 278-289, 1991.