



**Figure SM3.** Dependence of the pH on the absorption of the element on the sorbent obtained with a standard of  $15.0 \mu\text{g L}^{-1}$  V, Ti,  $30 \mu\text{g L}^{-1}$  Ni and  $1.5 \mu\text{g L}^{-1}$  Ga as described in section 3.2.2. pH study.