Einladung zum Vortrag von

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Selective Ion Exchange Materials

Ion exchange as a separation process has become more and more important due to demands on high purity (in chemicals as well as processes) and its low economic impact. Typically, the technique uses organic resins (>90%) but when high selectivity is required inorganic materials are usually favored. The use of inorganic ion exchangers is particularly attractive in nuclear industry where tolerance to ionizing radiation and high temperature has to be considered.

The IX-group in University of Helsinki, Finland develops inorganic materials for selective sorption purposes and our designed materials are used in over 60 installations all over the world including Fukushima nuclear accident site where two of our materials decontaminate their wastewaters from radioactive cesium and strontium, the most important fission products. Our core ideology is the ‘AA-policy’: affinity and accessibility, which we can manipulate in the material synthesis. In addition to 100% inorganic materials, our latest research area is selective hybrids where we use inorganic framework as sieve-like backbone for metal selective organic ligands.

Freitag, 1. Februar 2019, 15:15 Uhr
Hörsaal 3 der Fakultät für Chemie
Boltzmanngasse 1, 1090 Wien

Freddy Kleitz
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