

# The Future is OPEN



## QUALITATIVE ANALYSIS OF COMMON CATIONS IN WATER

Qualitative Analysis of Common Cations in Water



The qualitative analysis of cations in a mixture is used as a model to teach chemistry experimental skills. This model provides hands-on practice of separating a mixture of substances that are often encountered in chemical synthesis and chemical extraction processes. The ions in the mixture are separated by selective precipitation, selective dissolution, and characteristic reactions enforced based on common ion effects, pH effect, coordination complex formation, and redox reactions.

*Muhammad Arif Malik*  
Hampton University

Muhammad Arif Malik

