

**Studies on Detection, Complexation  
and Dynamics of Technetium, Rhenium  
and Osmium using Analytical and  
Nuclear Techniques**

**Thesis submitted for the degree of  
Doctor of Philosophy (Science)  
in  
Chemistry**

**By  
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*Dedicated to  
My Mother*



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#### **Work Performed out of The Scope of Present Thesis**

Production and separation of no-carrier-added thallium isotopes from proton irradiated  $^{\text{nat}}\text{Hg}_2\text{Cl}_2$  matrix

#### **List of publications and reprints**