

CONTENTS

PREFACE	5
Chapter 1 PET-MOF-CLEANWATER PROJECT <i>Bożena Sartowska</i>	7
Chapter 2 METAL-ORGANIC FRAMEWORK MATERIALS FOR TOXIC ELEMENTS REMOVAL (HEAVY METAL, RADIONUCLIDES) FROM WATER <i>Wojciech Starosta</i>	15
Chapter 3 POROUS MATERIALS (MOFs) RESEARCH WORK AT THE CSIR ENERGY CENTRE <i>Jianwei Ren, Xoliswa L. Dyosiba</i>	35
Chapter 4 HIGH VALUE-ADDED METAL-ORGANIC FRAMEWORKS FROM POLYETHYLENE TEREPHTHALATE WASTE AS LINKER SOURCE <i>Xoliswa L. Dyosiba, Jianwei Ren</i>	41
Chapter 5 APPLICATION OF SORPTION PROCESS IN INVESTIGATION OF SILICA-BASED SORBENT FOR RADIONUCLIDES REMOVAL <i>Dagmara Chmielewska-Śmietanko, Marek Henczka</i>	47
Chapter 6 NATURAL BIO-BASED SORBENTS FOR REMOVAL OF RADIONUCLIDES FROM AQUEOUS SOLUTIONS <i>Leon Fuks, Irena Herdzik-Koniecko</i>	55
Chapter 7 THE SEPARATION OF URANIUM FROM THE ACCOMPANYING METALS BY SOLVENT EXTRACTION AND ION EXCHANGE CHROMATOGRAPHY <i>Katarzyna Kiegiel, Irena Herdzik-Koniecko, Grażyna Zakrzewska-Koltuniewicz</i>	67
Chapter 8 PROCESSING OF RADIOACTIVE SOLUTIONS FROM THE FUEL CYCLE BY MEANS OF MEMBRANE METHODS <i>Grażyna Zakrzewska-Koltuniewicz, Agnieszka Miśkiewicz</i>	77
Chapter 9 METHODS FOR ISOLATION OF ^{99m}Tc FROM IRRADIATED ¹⁰⁰Mo TARGET <i>Magdalena Gumieła, Aleksander Bilewicz, Ewa Gniazdowska</i>	89
Chapter 10 SELECTED METHODS OF SCANDIUM SEPARATION FROM THE CALCIUM CARBONATE MATRIX <i>Rafał Walczak, Aleksander Bilewicz</i>	97