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MASSIFS (GREECE) -- KOMATIITE-BASALT COMPLEX OF NORTH-WEST VIETNAM -- KOMATIITE-BASALT COMPLEXES OF GORGONA ISLAND (COLOMBIA), ALEXO (ONTARIO, CANADA), ONVERWACHT, BARBERTON, PERSEVERANCE (AFRICA) AND KAMBALDA (WEST AUSTRALIA) PROVINCES -- BUSHVELD MASSIF (SOUTH AFRICA) -- MUSKOX MASSIF (CANADA) -- DISCUSSION AND CONCLUSION -- REFERENCES -- Chapter 3: THE SYNTHESIS OF PLATINUM COMPLEXES OF CYCLIC PHOSPHINES AND BISPHOSPHINES -- ABSTRACT -- INTRODUCTION. 1. FIVE- AND SIX-MEMBERED P-HETEROCYCLES ASP-LIGANDS IN PLATINUM COMPLEXES -- 2. THE DOUBLE KABACHNIK-FIELDS REACTION -- DEVELOPMENT OF NOVEL BIDENTATE P-LIGANDS -- 3. EXPERIMENTAL FOR THE THEORETICAL CALCULATIONS -- ACKNOWLEDGMENTS -- REFERENCES -- Chapter 4: PLATINUM FILMS ON YSZ WITH DIFFERENT TYPES OF GRAIN BOUNDARIES - MICROSTRUCTURE CHANGES DUE TO ANNEALING AND OXYGEN EXCHANGE -- ABSTRACT -- 1. INTRODUCTION -- 2. EXPERIMENTAL -- 2.1. Preparation of the Platinum Films -- 2.2. Annealing -- 2.3. Polarisation -- 2.4. Characterisation -- 3. RESULTS AND DISCUSSION -- 3.1. Effect of Annealing -- 3.2. Effect of Oxygen Exchange -- 3.3. Summary -- CONCLUSION -- ACKNOWLEDGMENTS -- REFERENCES -- Chapter 5: PLATINUM NANOPARTICLES AND INFLAMMATION -- ABSTRACT -- 1. INTRODUCTION -- 2. ULTRAVIOLET-INDUCED SKIN INFLAMMATION -- 3. PROTECTIVE EFFECT OF NANO-PTS AGAINST ULTRAVIOLET INDUCED SKIN INFLAMMATION -- 4. PROTECTIVE EFFECT OF NANO-PTS AGAINST RANKL STIMULATED OSTEOCLASTOGENESIS AND CIGARETTE SMOKE INDUCED PULMONARY INFLAMMATION -- 5. PROTECTIVE EFFECT OF NANO-PTS AGAINST HYPERTHERMIA INDUCED INFLAMMATION -- CONCLUSION -- ACKNOWLEDGMENTS -- REFERENCES -- Chapter 6: PLATINUM-HALIDE SQUARE-PRISM COMPOUNDS: NOVEL GROUND STATES AND THEIR OPTICAL FEATURES -- Abstract -- 1. Introduction -- 2. Group-Theoretical Analysis -- 3. Quantum Phase Competition -- 4. Band Structure -- 5. Optical Observations -- Acknowledgments -- A. Momentum Representation of the Hamiltonian -- B. Point Groups Relevant to Square-Prism-Shaped MX Compounds -- References -- Closing Remarks -- INDEX.

Sommario/riassunto

In this book, the authors present current research in the study of the compounds, production and applications of platinum. Topics discussed include the structural aspects of platinum coordination complexes; the problems of geochemical antagonism between REE and PGE in mafic and ultramafic rocks and their petrogenetic significance; the synthesis of platinum complexes of cyclic phosphines and bisphosphines; platinum films YSZ with different types of grain boundaries; platinum nanoparticles and inflammation; and platinum-halide square-prism compounds and their optical features.