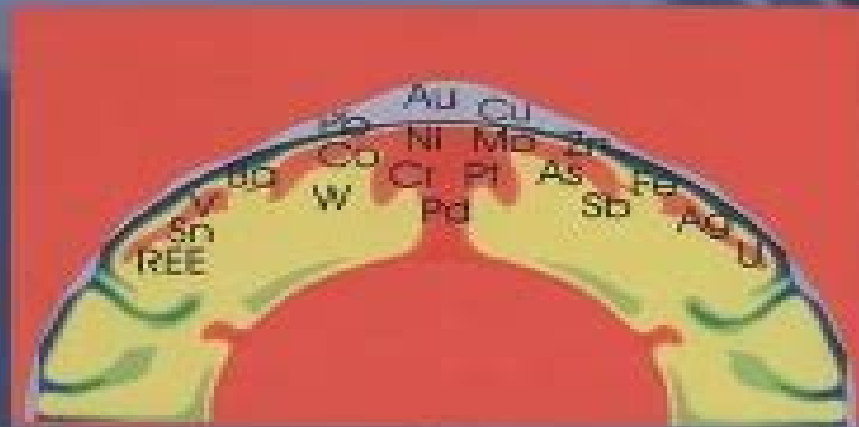


Ore Deposits and Mantle Plumes

Franco Pirajno



Kluwer Academic Publishers

Ore Deposits And Mantle Plumes

Richard E. Ernst, Kenneth L. Buchan



Ore Deposits And Mantle Plumes:

Ore Deposits and Mantle Plumes Franco Pirajno, 2013-11-11 PERTH Western Australia March 2000 Increasingly explorationists are seeking to find new ore deposits in poorly prospected areas be they geographically remote such as in the Arctic or geologically remote such as those under sedimentary cover Modern prospecting techniques including low detection level geochemistry and the use of advanced geophysical instrumentation have greatly assisted explorers but fundamental to any soundly based exploration program remains an understanding of the geological framework of ore deposits This allows the development of deposit models on macroscopic and mesoscopic scales This book by Dr Franeo Pirajno draws on his extensive and wide global experience To set the scene for a discussion of ore deposit generation Franeo details the Earths internal structures and mantle dynamics He then explores the impact of mantle plumes on the crust and in particular their role in the production of magmatic environments and in continental scale rifting This includes a descriptive section on magmatic provinces around the globe which highlights the importance of plumes Any study of Earth processes needs to take into account the effects of extraterrestrial bombardment and in particular the results from the impacts of large bolides The effects of these impacts on the atmosphere and on life have now been recognised as profound It is likely that the effect of these impacts on the Earth s crust is as equally profound **Mantle Plumes** Richard E. Ernst, Kenneth L. Buchan, 2001-01-01

Geodynamics and Ore Deposit Evolution in Europe D. Blundell, N. Arndt, P.R. Cobbold, C. Heinrich, 2006-02-07 This book presents a new synthesis of the major metallogenic provinces of Europe and the geodynamic processes involved that can lead to the formation of world class ore deposits It represents the culmination of a 5 year research programme GEODE set up by the European Science Foundation that brought together researchers across Europe from a wide range of disciplines into collaborative research projects They focused on five metallogenic provinces across Europe the Precambrian Fennoscandian Shield the Upper Palaeozoic Urals the Variscides of France and SW Iberia the Alpine Balkan Carpathian Dinaride belt and sediment hosted deposits of Europe Because of the long and well known tectonic history of Europe and the diversity of ore deposits linkages between geodynamics and ore deposit evolution have been established and new insights into mineralizing fluids and ore formation processes have been gained Presented as a set of individual review papers and a final synthesis this book offers a coherent and structured appraisal of geodynamics and metallogeny in Europe with valuable lessons for mineral exploration and research throughout the world **Large Igneous Provinces and their Plumbing Systems** R. K. Srivastava, R. E. Ernst, K. L. Buchan, M. De Kock, 2022-03-15 Identification of large volume short duration mafic magmatic events of intraplate affinity in both continental and oceanic settings on the Earth and other planets provides invaluable clues for understanding several vital geological issues of current concern Of particular importance is understanding the assembly and dispersal of supercontinents through Earth s history dramatic climate change events including mass extinctions and processes that have produced a wide range of large igneous province LIP related

resources such as Ni Cu PGE Au U base metals and petroleum This volume comprises 21 contributions on the latest developments and new information on LIPs and their plumbing systems and presents methodical studies on different components of LIP plumbing systems These articles are especially helpful in understanding continental break up events regional domal uplift and a variety of metallogenic systems as well as the temporal and spatial distribution of LIPs their origin and their likely links to mantle plumes superplumes The Geology and Tectonic Settings of China's Mineral Deposits Franco Pirajno, 2012-08-13 Extensive descriptions of a wide range of key or world class mineral deposits of China are presented in the context of the country's general geology tectonic units and mineral systems and their geodynamic evolution within the tectonic framework of the Asian continent This comprehensive overview incorporating the latest geological concepts is the first such coverage written in English by a western expert and will be of benefit to mineral explorers and miners as well as to research scientists and students in institutions of higher education In his compilation of this compendium of Chinese geology and mineral systems Franco Pirajno draws on first hand knowledge of China's geology and mineral deposits gained in numerous field visits and research projects with Chinese colleagues from various academic institutions over the past 18 years First time that a western based book on China's geology and mineral deposits is published Appropriate for use by the mineral exploration industry Modern English language geological and mineral deposits information on China Most useful to Western and Chinese geoscientists Hydrothermal Processes and Mineral Systems Franco Pirajno, 2008-10-14 Hydrothermal processes on Earth have played an important role in the evolution of our planet These processes link the lithosphere hydrosphere and biosphere in continuously evolving dynamic systems Terrestrial hydrothermal processes have been active since water condensed to form the hydrosphere most probably from about 4.4 Ga The circulation of hot aqueous solution hydrothermal systems at and below the Earth's surface is ultimately driven by magmatic heat This book presents an in depth review of hydrothermal processes and systems that form beneath the oceans and in intracontinental rifts continental margins and magmatic arcs The interaction of hydrothermal fluids with rock walls the hydrosphere and the biosphere together with changes in their composition through time and space contribute to the formation of a wide range of mineral deposit types and associated wallrock alteration On Earth sites of hydrothermal activity support varied ecosystems based on a range of chemotrophic microorganisms both at surface and in the subsurface This book also provides an overview of hydrothermal systems associated with meteorite impacts and explores the possibility that hydrothermal processes operate on other terrestrial planets such as Mars or satellites of the outer planets such as Titan and Europa Possible analogues of extraterrestrial putative hydrothermal processes pose the intriguing question of whether primitive life as we know it may exist or existed in these planetary bodies Audience This volume will be of interest to scientists and researchers in geosciences and life sciences departments as well as to professionals and scientists involved in mining and mineral exploration **Earth's Oldest Rocks** Martin J. Van Kranendonk, Vickie Bennett, Elis Hoffmann, 2018-09-26 Earth's Oldest

Rocks Second Edition is the only single reference source for geological research of early Earth. This new edition is an up to date collection of scientific articles on all aspects of the early history of the Earth from planetary accretion at 4.567 billion years ago Ga to the onset of modern style plate tectonics at 3.2 Ga. Since the first edition was published significant new advances have been made in our understanding of events and processes on early Earth that correspond with new advances in technology. The book includes contributions from over 100 authors all of whom are experts in their respective fields. The research in this reference concentrates on what is directly gleaned from the existing rock record to understand how our planet formed and evolved during the planetary accretion phase, formation of the first crust, the changing dynamics of the mantle and style of tectonics, life's foothold and early development and mineral deposits. It is an ideal resource for academics, students and the general public alike. Advances in early Earth research since 2007 based primarily on evidence gleaned directly from the rock record. More than 50% of the chapters in this edition are new and the rest of the chapters are revised from the first edition with more than 700 pages of new material. Comprehensive reviews of areas of ancient lithosphere from all over the world and of crust forming processes. New chapters on early solar system materials, composition of the ancient atmosphere, hydrosphere and overviews of the oldest evidence of life on Earth and modeling of early Earth tectonics.

Polymetallic Metallogenic System Liqiang Yang, 2019-09-18. Within the last decade the high and continuing demand for precious and base metals as well as critical elements has prompted a global rush on a scale never before seen. This eventually resulted in the demand for considerable innovation and improvement in mineral deposit genetic modelling and ore formation regimes for the many different types of gold deposits now recognized and paralleled by the wide employment of exploration techniques and a rapid expansion of geological databases. This Special Issue will show case studies of porphyry polymetal systems, orogenic gold formations, water-rock reaction ore forming structure evolution, mineralogy and petrology of ore deposit, ore formation regime, geochronology and geochemistry of ore deposit, ore forming evolution, mineral exploration and cutting edge technology in ore deposit study.

Processes and Ore Deposits of Ultramafic-Mafic Magmas through Space and Time Sisir K. Mondal, William L. Griffin, 2017-09-08. Processes and Ore Deposits of Ultramafic Mafic Magmas through Space and Time focuses on the fundamental processes that control the formation of ore deposits from ultramafic mafic magmas covering chromite, platinum group element (PGE), Ni sulfides and Ti-V bearing magnetite. The exploration, exploitation and use of these magmatic ores are important aspects of geology and directly linked to the global economy. Magmatic ores form from ultramafic mafic magmas and crystallize at high temperature after emplacement into crustal magma chambers and are genetically linked to the evolution of the parental magmas through space and time. This book features recent developments in the field of magmatic ore deposits and is an essential resource for both industry professionals and those in academia. Elucidates the relationships between tectonic settings and magmatic ore mineralization. Provides the links between magma generation in the mantle and ore mineralization at crustal levels. Features the latest research on changing patterns in

magmatic ore mineralization through time and their bearing on the chemical evolution of the Earth's mantle **Volcanism and Tectonism Across the Inner Solar System** T. Platz, M. Massironi, P.K. Byrne, H. Hiesinger, 2015-01-05 Volcanism and tectonism are the dominant endogenic means by which planetary surfaces change. This book aims to encompass the broad range in character of volcanism, tectonism, faulting, and associated interactions observed on planetary bodies across the inner solar system, a region that includes Mercury, Venus, Earth, the Moon, Mars, and asteroids. The diversity and breadth of landforms produced by volcanic and tectonic processes is enormous and varies across the inner solar system bodies. As a result, the selection of prevailing landforms and their underlying formational processes that are described and highlighted in this volume are but a primer to the expansive field of planetary volcanism and tectonism. This Special Publication features 22 research articles about volcanic and tectonic processes manifest across the inner solar system.

Geology and Geochemistry of Molybdenum Deposits in the Qinling Orogen, P. R. China YanJing Chen, Franco Pirajno, Nuo Li, XiaoHua Deng, YongFei Yang, 2022-01-01 This book is the first systematic treatise of available data and viewpoints obtained from geological and geochemical studies of the Mo deposits in the Qinling Orogen, China. The Qinling Orogen has a minimum reserve of 8.7 Mt Mo, ranking the largest molybdenum province both in China and the world. Incorporating all known Mo deposit types in the world, it presents extensive studies of Mo deposits of world-class and unusual types within tectonic settings. The Qinling Orogen was finally formed during continental collision between Yangtze and North China cratons following the Triassic closure of the northernmost paleo-Tethys. It hosts 49 Mo deposits formed in seven mineralization events since 1850 Ma, with all the world-class deposits being formed during 160–105 Ma, coeval with collisional orogeny. These deposits are assigned to magmatic and metamorphic hydrothermal classes. The magmatic hydrothermal class includes porphyries, skarns, and intrusion-related veins, carbonatite, fluorite, and quartz. The porphyry Mo systems in the Qinling Orogen are predominated by Dabie type, formed in continental collision setting, followed by Endako and Climax types, formed in continental arcs and rifts, respectively. The metamorphic hydrothermal Mo deposits are only reported in the Qinling Orogen, and thus a new crustal continuum model for the orogenic class mineral systems is proposed. A scientific linkage between ore geology and fluid inclusions is introduced and verified both by theory and case studies. This is the first research book comprehensively displaying continental collision metallogeny. This literature will benefit both Western and Chinese mineral explorers and miners, as well as research scientists and students.

Ore Deposits in an Evolving Earth G.R.T. Jenkin, P.A.J. Lusty, I. McDonald, M.P. Smith, A.J. Boyce, J.J. Wilkinson, 2015-01-02 Ore deposits form by a variety of natural processes that concentrate elements into a volume that can be economically mined. Their type, character, and abundance reflect the environment in which they formed, and thus they preserve key evidence for the evolution of magmatic and tectonic processes, the state of the atmosphere and hydrosphere, and the evolution of life over geological time. This volume presents 13 papers on topical subjects in ore deposit research, viewed in the context of Earth evolution. These diverse yet interlinked papers cover topics including controls on the temporal and

spatial distribution of ore deposits the sources of fluid gold and other components of orogenic gold deposits the degree of oxygenation in the Neoproterozoic ocean bacterial immobilization of gold in the semi arid near surface environment and mineral resources for the future including issues of resource estimation sustainability of supply and the criticality of certain elements to society

Ore Deposits Sophie Decrée, Laurence Robb, 2019-04-02 The latest knowledge on mineral ore genesis and the exploration of ore deposits Global demand for metals has risen considerably over the past decade Geologists are developing new approaches for studying ore deposits and discovering new sources Ore Deposits Origin Exploration and Exploitation is a compilation of diverse case studies on new prospects in ore deposit geology including atypical examples of mineral deposits and new methods for ore exploration Volume highlights include Presentation of the latest research on a range of ore deposit types Application of ore deposits to multiple areas of geology and geophysical exploration Emphasis on diverse methods and tools for the study of ore deposits Useful case studies for geologists in both academia and industry Ore Deposits Origin Exploration and Exploitation is a valuable resource for economic geologists mineralogists petrologists geochemists mining engineers research professionals and advanced students in relevant areas of academic study Read an interview with the editors to find out more <https://eos.org/editors-vox/developments-in-the-continuing-search-for-new-mineral-deposits>

A Handbook of Minerals, Crystals, Rocks and Ores Parmodh Alexander, 2009-01-15 The book will be beneficial for The undergraduate course in mineralogy crystallography petrology economic geology Post graduate students for their economic geology course Useful as a ready reckoner for competitive examinations and job interviews and entrepreneurs in mineral industry Civil Engineering students will also find this book suitable for their basic courses in mineralogy petrology the text as far as possible is precise concise and up to date in facts and figures adequately illustrated and includes photographs and micro photographs

Nickel Sulfide Ores and Impact Melts Peter C. Lightfoot, 2016-08-23 Nickel Sulfide Ores and Impact Melts Origin of the Sudbury Igneous Complex presents a current state of understanding on the geology and ore deposits of the Sudbury Igneous Complex in Ontario Canada As the first complete reference on the subject this book explores the linkage between the processes of meteorite impact melt sheet formation differentiation sulfide immiscibility and metal collection and the localization of ores by magmatic and post magmatic processes The discovery of new ore deposits requires industry and government scientists and academic scholars to have access to the latest understanding of ore formation process models that link to the mineralization of their host rocks The ore deposits at Sudbury are one of the world's largest ore systems representing a classic case study that brings together very diverse datasets and ways of thinking This book is designed to emphasize concepts that can be applied across a broad range of ore deposit types beyond Sudbury and nickel deposit geology It is an essential resource for exploration geologists university researchers and government scientists and can be used in rock and mineral analysis remote sensing and geophysical applications Provides the only reference book to focus entirely on the Sudbury Igneous Complex Brings together an understanding of ore deposit

and impact melts as a basis for future exploration Authored by a leading expert on the geology of the Sudbury Igneous Complex with 35 years of experience working on nickel sulfide ore deposits Palaeoproterozoic Supercontinents and Global Evolution Steven Michael Reddy, 2009 The Palaeoproterozoic era 2500 1600 Ma is a critical period of Earth history with dynamic evolution from the deep planetary interior to its surface environment Several lines of geological evidence suggest the existence of at least one pre Rodinia supercontinent named Nuna or Columbia which formed near the end of Palaeoproterozoic time Prior to this assembly there may have been an older supercontinent Kenorland or perhaps only independently drifting supercratons The tectonic records of amalgamation and dispersal of these ancient landmasses provide a framework that links processes of the deep Earth with those of its fluid envelope The sixteen papers in this volume present reviews and new analytical data that span the geological record of Palaeoproterozoic Earth The volume is useful as a reference book for students and professional geoscientists interested in this important period of global evolution

Metasomatism and the Chemical Transformation of Rock Daniel Harlov, Hakon Austrheim, 2012-08-14 Fluid aided mass transfer and subsequent mineral re equilibration are the two defining features of metasomatism and must be present in order for metamorphism to occur Coupled with igneous and tectonic processes metasomatism has played a major role in the formation of the Earth s continental and oceanic crust and lithospheric mantle as well as in their evolution and subsequent stabilization Metasomatic processes can include ore mineralization metasomatically induced alteration of oceanic lithosphere mass transport in and alteration of subducted oceanic crust and overlying mantle wedge which has subsequent implications regarding mass transport fluid flow and volatile storage in the lithospheric mantle overall as well as both regional and localized crustal metamorphism Metasomatic alteration of accessory minerals such as zircon or monazite can allow for the dating of metasomatic events as well as give additional information regarding the chemistry of the fluids responsible Lastly present day movement of fluids in both the lithospheric mantle and deep to mid crust can be observed utilizing geophysical resources such as electrical resistivity and seismic data Such observations help to further clarify the picture of actual metasomatic processes as inferred from basic petrographic mineralogical and geochemical data The goal of this volume is to bring together a diverse group of geologists each of whose specialities and long range experience regarding one or more aspects of metasomatism during geologic processes should allow them to contribute to a series of review chapters which outline the basis of our current understanding of how metasomatism influences and helps to control both the evolution and stability of the crust and lithospheric mantle *Mineral Deposit Research: Meeting the Global Challenge* Jingwen Mao, Frank P. Bierlein, 2008-01-08 In June 1965 a small group of European economic geologists gathered in Heidelberg Germany at the invitation of Professor G C Amstutz and decided to establish the Society for Geology Applied to Mineral Deposits SGA and to start a journal to be called Mineralium Deposita The first issue of the journal came out in May 1966 and has now matured to a leading journal in economic geology The first Biennial SGA Meeting was held successfully in Nancy

France in 1991 with subsequent meetings in Grenada Spain 1993 Prague Czech Republic 1995 Turku Finland 1997 London United Kingdom 1999 Krakov Poland 2001 and Athens Greece 2003 In 2002 the SGA Council decided that its 8 Biennial Meeting in 2005 should be held in Beijing China making this the first Biennial Meeting to be convened outside Europe. Significantly 2005 also marks the 40 anniversary of the SGA. The decision to host this year's premier meeting in Beijing reflects the Society's successful transition from its traditional European focus to a truly global organization with 24% of SGA members situated in North America 13% in Australia and Oceania and 5% in Asia. Over the last 27 years China has made dramatic progress towards political and economic reform and opening the nation to the outside world. China's rapid economic development demands increasing amounts of minerals fuels and materials and this is currently a major driver for the global economic markets.

Mineral Deposits of Finland Wolfgang Derek Maier, Raimo Lahtinen, Hugh O'Brien, 2015-05-23

Mineral Deposits of Finland is the only up to date and inclusive reference available that fully captures the scope of Finland's mineral deposits and their economic potential. Finland hosts Europe's most mature rocks and large cratonic blocks analogous to western Australia and Southern Africa which are the most mineralized terrains on Earth. Authored by the world's premier experts on Finnish mineral exploration and mining **Mineral Deposits of Finland** offers a thorough summary of the mineral deposits and their petrogenesis helping readers to map explore and identify Finland's renewed potential for mineral exploration and extraction. Presents a thoroughly inclusive catalogue of Finland's mineral deposits and their economic potential. Features full color figures illustrations working examples and photographs to aid the reader in retaining key concepts to underscore major advances in the exploration of Finland's mineral resources. Offers concise chapter summaries authored by leaders in geological research which provide accessible overviews of deposit classes.

Mineralogy Martin Okrusch, Hartwig E. Frimmel, 2020-09-18 This book presents a translation and update of the classic German textbook of Mineralogy and Petrology that has been published for decades. It provides an introduction to mineralogy petrology and geochemistry discussing the principles of mineralogy including crystallography chemical bonding and physical properties and the genesis of minerals in a didactic and understandable way. Illustrated with numerous figures and tables it also features several sections dedicated to the genesis of mineral resources. The textbook reflects the authors many years of experience and is ideal for use in lectures on mineralogy and petrology.

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