

Special Issue Reprint

High-Pressure Physical and Chemical Behaviors of Minerals and Rocks

www.mdpi.com/books/reprint/7226

Edited by Lidong Dai Haiying Hu Jianjun Jiang

ISBN 978-3-0365-7290-1 (Hardback) ISBN 978-3-0365-7291-8 (PDF)

The Key Laboratory of High-temperature and High-pressure Study of the Earth's Interior belongs to the Institute of Geochemistry, Chinese Academy of Sciences, China. It is a unique and authoritative key laboratory at the provincial and ministerial levels. The Key High-Pressure Laboratory is primarily focused on the high-temperature and high-pressure experimental sciences, in combination with filed geophysical observation, theoretical calculation and advanced analysis tests in order to explore the chemical composition, cycling structure, geological state, material circulation, etc., of deep Earth.

The mainstream research subjects of the Laboratory mainly include: research and development of experimental platforms and measurement techniques at high temperatures and high pressures; high-pressure material synthesis and hot-pressed sintering techniques; physical and chemical characterizations (e.g. electrical conductivity, thermal conductivity, ultrasonic wave velocity, etc.) of minerals and rocks at conditions of high pressure and different oxygen fugacities by virtue of representative high-pressure apparatus, including autoclaves, piston cylinders, multi-anvil presses, diamond anvil cells and shock waves; high-pressure physiochemical behavior and storage states in the geological fluid and melt of deep Earth interior; high-pressure theoretical calculations; and high-pressure applications in the service of national economical and societal development.



Order Your Print Copy You can order print copies at www.mdpi.com/books/reprint/7226





MDPINBOOKS Publishing Open Access Books & Series

MDPI Books offers quality open access book publishing to promote the exchange of ideas and knowledge in a globalized world. MDPI Books encompasses all the benefits of open access – high availability and visibility, as well as wide and rapid dissemination. With MDPI Books, you can complement the digital version of your work with a high quality printed counterpart.



Open Access

Your scholarly work is accessible worldwide without any restrictions. All authors retain the copyright for their work distributed under the terms of the Creative Commons Attribution License.



Author Focus

Authors and editors profit from MDPI's over two decades of experience in open access publishing, our customized personal support throughout the entire publication process, and competitive processing charges as well as unique contributor discounts on book purchases.



High Quality & Rapid Publication

MDPI ensures a thorough review for all published items and provides a fast publication procedure. State-of-the-art research and time-sensitive topics are released with a minimum amount of delay.



ᆔ

High Visibility

Due to our global network and well-known channel partners, we ensure maximum visibility and broad dissemination. Title information of books is sent to international indexing databases and archives, such as the Directory of Open Access Books (DOAB), and the Verzeichnis Lieferbarer Bücher (VLB).

Print on Demand and Multiple Formats

MDPI Books are available for purchase and to read online at any time. Our print-on-demand service offers a sustainable, cost-effective and fast way to publish MDPI Books printed versions.

MDPI AG Grosspeteranlage 5 4052 Basel Switzerland Tel: +41 61 683 77 34 www.mdpi.com/books books@mdpi.com

