

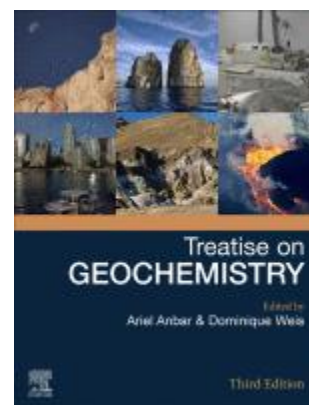
Treatise on Geochemistry, 3rd Edition

地球化學論文, 第三版

A comprehensive resource for geoscientists and others seeking to understand the origin, evolution, and functioning of our inhabited world, in service of a sustainable future and the search for inhabited worlds beyond.

《地球化學論文》，第三版，共 8 卷，對於地球科學家和其他尋求了解我們居住世界的起源、演變和功能、服務於永續未來的人來說，是寶貴的資源。

兩次正在進行的科學革命正在重塑我們了解地球的需要：數千顆系外行星的發現和人類世的到來。這些看似不同的革命挑戰我們加深對地球的了解，這是我們了解有人居住的行星如何運作的最佳途徑。地球化學知識和發現是這項挑戰的核心，也是所有地球科學分支學科相遇的十字路口——就像化學通常被稱為「中心科學」一樣，地球化學也是「中心地球科學」。《地球化學論文》填補了成熟和成熟的地球化學知識之間的空白，包括分析發展和該領域快速發展的前沿。



Key features/ benefits

- This work provides complete and comprehensive coverage of all aspects of the multi-disciplinary field of geochemistry.
- The new edition is restructured to streamline and consolidate topics, drawing explicit connections to the twin revolutions of Astrobiology and the Anthropocene in each volume.
- New and expanded coverage includes emerging topics like cosmochemistry, planetary geochemistry, and exoplanets.
- Each chapter follows a common template, making the work consistent and easier to navigate.
- 提供完整、全面的地球化學多學科領域的各個方面的內容
- 重組以簡化和鞏固主題，並在每卷的介紹章節中與天體生物學和人類世的雙重革命建立明確的聯繫
- 新版本的更新包括對宇宙化學、行星地球化學和系外行星等新興主題的新的和擴展的覆蓋範圍
- 遵循通用模板，使工作一致且更易於導航

What problem does this MRW solve?

Academics and professionals in the field need tools to help them making connections in a vast and complex area such as Geochemistry. This work provides authoritative summaries of key topics,



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including geochemical techniques and applications that allow readers to meaningfully interpret their data, chemical processes and interactions in the planet, through time.

Meet the Editor-in-Chief

- Editors-in-Chief: Ariel D. Anbar, School of Earth & Space Exploration, School of Molecular Sciences, Arizona State University, USA; Dominique Weis, Department of Earth, Ocean and Atmospheric Sciences, University of British Columbia, Canada
- Plus an international and highly qualified editorial board: Anat Shahar, Catherine Chauvel, Syjoy Mukhopadhyay, Gabriel Filippelli, Adina Paytan, Matt Kohn, Alexandra Turchyn.

Important Areas of Coverage:

- Earth's Interior (core and mantle)
- Earth's Lithosphere (shallow mantle, volcanism, crust, sediments)
- Earth's Surface (atmosphere, hydrosphere, biosphere)
- Global Cycles
- Sustaining Society (environmental science, climate, economic/resources, education/outreach)
- Worlds Beyond (cosmochemistry, planetary geochemistry, exoplanets, astrobiology)
- How We Know (measurements, models, experiments)



170
Chapters

>600
Authors/
contributors



new or revised
articles

New or substantially revised areas in this edition include:

- Focus on sustainability
- New info on cosmochemistry
- Planetary geochemistry, and exoplanets

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Reference Collection: Earth Systems and Environmental Sciences

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