

# MARINE GEOCHEMISTRY

ROY CHESTER AND TIM JICKELLS

THIRD EDITION

WILEY Blackwell



# Marine Geochemistry

**John Price Riley, Roy Chester**

## **Marine Geochemistry:**

*Marine Geochemistry* Roy Chester, Tim D. Jickells, 2012-08-24 Marine Geochemistry offers a fully comprehensive and integrated treatment of the chemistry of the oceans their sediments and biota. The first edition of the book received strong critical acclaim and was described as a standard text for years to come. This third edition of Marine Geochemistry has been written at a time when the role of the oceans in the Earth System is becoming increasingly apparent. Following the successful format adopted previously this new edition treats the oceans as a unified entity and addresses the question how do the oceans work as a chemical system. To address this question the text has been updated to cover recent advances in our understanding of topics such as the carbon chemistry of the oceans nutrient cycling and its effect on marine chemistry the acidification of sea water and the role of the oceans in climate change. In addition the importance of shelf seas in oceanic cycles has been re evaluated in the light of new research. Marine Geochemistry offers both undergraduate and graduate students and research workers an integrated approach to one of the most important reservoirs in the Earth System.

Additional resources for this book can be found at [www.wiley.com/go/chester/marinegeochemistry](http://www.wiley.com/go/chester/marinegeochemistry)      **Marine**

**Geochemistry** Horst D. Schulz, Matthias Zabel, 1999-12-17 A summary of the latest research in this field. The topics comprise the sedimentological examination and physical properties of the sedimentary solid phase pore water and pore water constituents organic matter as the driving force of most microbiological processes biotic and abiotic redox reactions carbonates and stable isotopes as proxies for paleoclimate reconstruction metal enrichments in ferromanganese nodules and crusts as well as in hot vents and cold seeps on the seafloor. The current model conceptions lead to the development of different types of computer models allowing the global mass exchanges between oceans and sediments to be balanced.

Geochemistry of Marine Sediments David J. Burdige, 2006-09-10 The processes occurring in surface marine sediments have a profound effect on the local and global cycling of many elements. This graduate text presents the fundamentals of marine sediment geochemistry by examining the complex chemical biological and physical processes that contribute to the conversion of these sediments to rock a process known as early diagenesis. Research over the past three decades has uncovered the fact that the oxidation of organic matter deposited in sediment acts as a causative agent for many early diagenetic changes. Summarizing and discussing these findings and providing a much needed update to Robert Berner's *Early Diagenesis A Theoretical Approach* David J. Burdige describes the ways to quantify geochemical processes in marine sediment. By doing so he offers a deeper understanding of the cycling of elements such as carbon nitrogen and phosphorus along with important metals such as iron and manganese. No other book presents such an in depth look at marine sediment geochemistry. Including the most up to date research a complete survey of the subject explanatory text and the most recent mathematical formulations that have contributed to our greater understanding of early diagenesis. *Geochemistry of Marine Sediments* will interest graduate students of geology geochemistry and oceanography as well as the broader community of

earth scientists It is poised to become the standard text on the subject for years to come **Marine Geochemistry** ,1965

Marine Geochemistry Matthieu Roy-Barman,Catherine Jeandel,2016-11-03 Marine geochemistry uses chemical elements and their isotopes to study how the ocean works in terms of ocean circulation chemical composition biological activity and atmospheric CO<sub>2</sub> regulation This rapidly growing field is at a crossroad for many disciplines physical chemical and biological oceanography geology climatology ecology etc It provides important quantitative answers to questions such as What is the deep ocean mixing rate How much atmospheric CO<sub>2</sub> is pumped by the ocean How fast are pollutants removed from the ocean How do ecosystems react to anthropogenic pressure This text gives a simple introduction to the concepts the methods and the applications of marine geochemistry with a particular emphasis on isotopic tracers Overall introducing a very large number of topics physical oceanography ocean chemistry isotopes gas exchange modelling biogeochemical cycles with a balance of didactic and indepth information it provides an outline and a complete course in marine geochemistry Throughout the book uses a hands on approach with worked out exercises and problems with answers provided at the end of the book to help the students work through the concepts presented A broad scale approach is take including ocean physics marine biology ocean climate relations remote sensing pollutions and ecology so that the reader acquires a global perspective of the ocean It also includes new topics arising from ongoing research programs This textbook is essential reading for students scholars researchers and other professionals

*Marine Chemistry and Geochemistry* John H. Steele,Karl K. Turekian,Steve A. Thorpe,2010 Marine Chemistry and Geochemistry is a derivative of the Encyclopedia of Ocean Sciences 2nd Edition and serves as an important reference on current knowledge and expertise in one convenient and accessible source The selected articles all written by experts in their field fall into several categories including chemistry of sea water tracers in the sea natural radioactive species in the ocean cycles of the nuclides marine deposits and air sea exchanges Marine Chemistry and Geochemistry serves as an ideal reference for topical research References related articles on marine chemistry and geochemistry to facilitate further research Richly illustrated with figures and tables that aid in understanding key concepts Includes an introductory overview of marine chemistry and geochemistry and then explores each topic in detail making it useful to experts and graduate level researchers Topical arrangement makes it the perfect desk reference

**Marine Geochemistry** Horst D. Schulz,Matthias Zabel,2013-04-17 Since 1980 a considerable amount of scientific research dealing with geochemical processes in marine sediments has been carried out This textbook summarizes the state of the art in this field of research The topics comprise the examination of sedimentological and physical properties of the sedimentary solid phase of pore water and pore water constituents organic matter as the driving force of most microbiological processes biotic and abiotic redox reactions carbonates and stable isotopes as proxies for paleoclimate reconstruction metal enrichments in ferromanganese nodules and crusts as well as in hot vents and cold seeps on the seafloor A new chapter describes properties occurrence and formation of gas hydrates in marine sediments The textbook ends with a chapter on model conceptions and

computer models to quantify processes of early diagenesis

### **The Oceans and Marine Geochemistry**

H. Elderfield,2006-06-20 The Treatise on Geochemistry is the first work providing a comprehensive integrated summary of the present state of geochemistry It deals with all the major subjects in the field ranging from the chemistry of the solar system to environmental geochemistry The Treatise on Geochemistry has drawn on the expertise of outstanding scientists throughout the world creating the reference work in geochemistry for the next decade Each volume consists of fifteen to twenty five chapters written by recognized authorities in their fields and chosen by the Volume Editors in consultation with the Executive Editors Particular emphasis has been placed on integrating the subject matter of the individual chapters and volumes Elsevier also offers the Treatise on Geochemistry in electronic format via the online platform ScienceDirect the most comprehensive database of academic research on the Internet today enhanced by a suite of sophisticated linking searching and retrieval tools

### **Introduction to Marine Chemistry**

John Price Riley,Roy Chester,1971

### **Organic Marine Geochemistry**

Mary L. Sohn,1986

### **REE Marine Geochemistry in the 21st Century: A Tribute to the Pioneering Research of Henry Elderfield (1943-2016)**

Johan Schijf,Catherine Jeandel,Karen Johannesson,Anne H.

Osborne,2020-05-05

### **Marine Geology & Geophysics**

John H. Steele,Steve A. Thorpe,Karl K. Turekian,2010 The Coastal Ocean is a derivative of the Encyclopedia of Ocean Sciences 2nd Edition and serves as an important reference on coastal oceanography in one convenient and accessible source Its selection of articles provides current knowledge and expertise in the areas of Rivers estuaries and fjords Salt marshes lagoons beaches and rocky shores Corals and reefs Groundwater seepage Ice and permafrost Waves tides surges tsunami and seiches Topography and sea level Plankton and benthos Management mariculture and fisheries Pollution Sediments slides slumps and cycling Circulation and models Remote sensing by acoustics aircraft and satellites and rigs structures and shipping The Coastal Ocean serves as an ideal reference for topical research References related articles in coastal oceanography to facilitate further research Richly illustrated with figures and tables that aid in understanding key concepts Includes an introductory overview and then explores each topic in detail making it useful to experts and graduate level researchers Topical arrangement makes it the perfect desk reference

### **Chemistry of Marine Water and Sediments**

Antonio Gianguzza,Ezio Pelizzetti,Silvio Sammartano,2013-06-29 The most important processes on the Earth's surface occur in the Ocean where materials and energy are primarily exchanged In the case of marine chemistry different fields of chemistry from organic to inorganic as well as thermodynamics and biochemistry are involved Analytical Chemistry is a very important tool for the quantification of biogeochemical processes by providing correct and even more sophisticated methodologies These are often directly applied in situ in order to detect trace and ultra trace natural and anthropogenic substances Kinetic and thermodynamic studies allow us to establish whether the process occurs Once discovered it is then possible to build up general models for environmental systems This book gathers many aspects with the aim of creating a general picture of the chemical processes occurring in the marine environment

*Organic Marine Geochemistry* Mary L. Sohn, 1986-01-01

*The Marine Geochemistry of Argon* David Frank Bolka, 1964

**The Geochemistry of 226Ra and 228Ra in Marine Deposits** James Kirk Cochran, 1979

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**Geochemistry: The oceans and marine geochemistry**, 2014

Marine Phosphorus Geochemistry Philip Nissen

Froelich, 1987

*Equilibrium and Dynamic Aspects of the Marine Geochemistry of Sulfur* Martin Bruce Goldhaber, 1974

**Special Issue** Nihon Chikyu Kagakukai, 1990

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