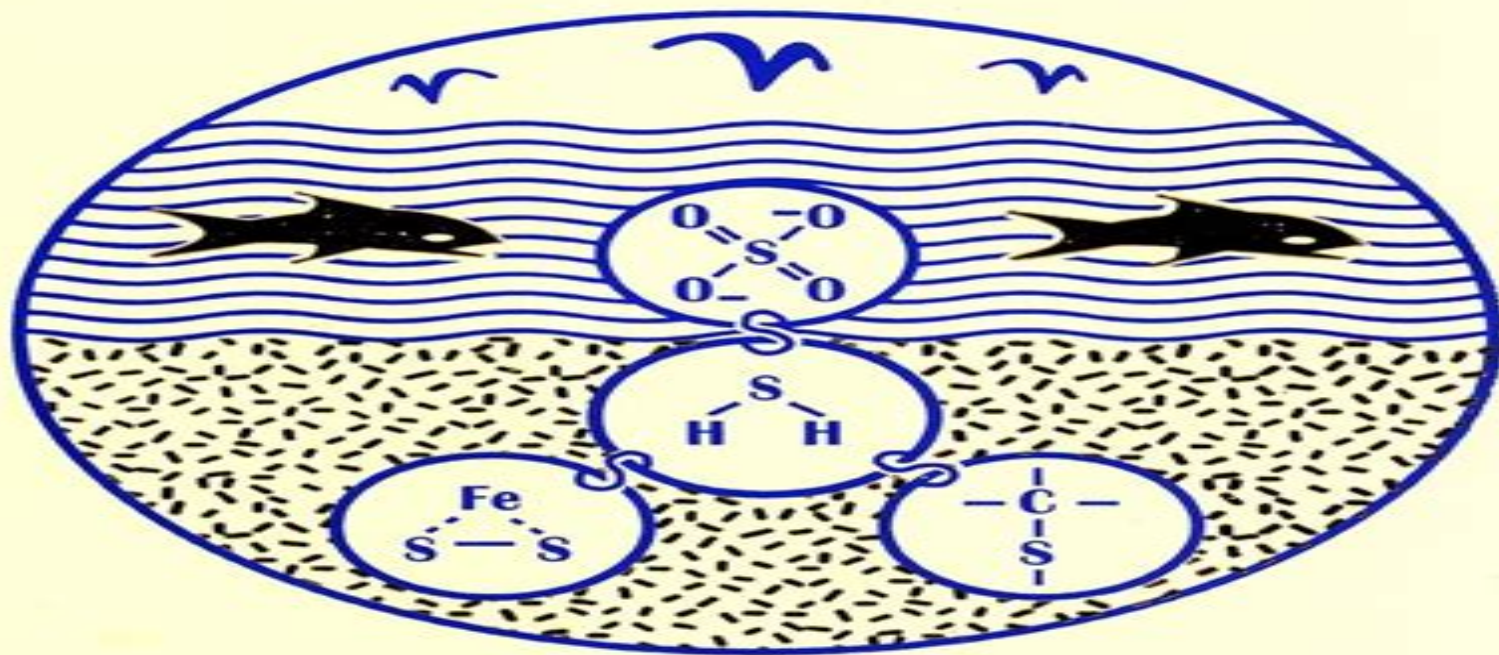


# Geochemical Transformations of Sedimentary Sulfur



EDITED BY  
**Murthy A. Vairavamurthy and  
Martin A. A. Schoonen**

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# Geochemical Transformations Of Sedimentary Sulfur

**Anthony S. Fauci**



## **Geochemical Transformations Of Sedimentary Sulfur:**

**Geochemical Transformations of Sedimentary Sulfur** Murthy A. Vairavamurthy, Martin A. A. Schoonen, 1995

**Geochemical Transformations of Sedimentary Sulfur** Murthy A. Vairavamurthy, 1995 Offers a comprehensive discussion of the geochemistry of sedimentary sulfur including low temperature transformation in early diagenesis thermal reactions occurring during later diagenesis and catagenesis Provides a detailed examination of sulfur organic matter interactions Presents an interdisciplinary overview of recent research in the complex process of sedimentary sulfur transformations Includes contributions from internationally recognized experts in the field **Geochemical Investigations in Earth and Space Sciences** R.J. Hill, J. Leventhal, Z. Aizenshtat, M.J. Baedeker, G. Claypool, R. Eganhouse, M. Goldhaber, K. Peters, 2004-06-16 This volume is the product of a technical session organized for the 2002 Geological Society of America Annual Meeting in recognition of Isaac Kaplan's many contributions to various fields of geochemistry As Kaplan enters his sixth decade of scientific investigation it is fair to say that his work has touched or influenced innumerable scientists either directly or indirectly Readers of this volume are presented with a collection of 29 papers written by former students post doctoral researchers friends and colleagues from countries all over the world including Sweden Japan Taiwan New Zealand Australia Israel and the United States from the fields of stable isotope forensic environmental and petroleum geochemistry atmospheric chemistry and cosmochemistry The stable isotope section includes papers investigating climate change diagenesis recent sediment and petroleum geochemistry and cosmochemistry problems The forensic and environmental geochemistry section includes a variety of papers ranging from trace metals in soils to atmospheric CO<sub>2</sub> projections The petroleum geochemistry section includes both basic research and applied geochemistry papers The ancient and recent sediments section contains papers ranging from carbon flux in modern sediments to Precambrian microfossils All of the articles together cover a broad range of geochemical studies and represent the diverse and distinguished career of Isaac Kaplan **Sulfur Biogeochemistry** Jan P. Amend, Katrina J. Edwards, Timothy W. Lyons, 2004 **Geochemical Transformation of Sedimentary Sulfur**, 1995 **Treatise on Geochemistry**, 2013-10-19 This extensively updated new edition of the widely acclaimed Treatise on Geochemistry has increased its coverage beyond the wide range of geochemical subject areas in the first edition with five new volumes which include the history of the atmosphere geochemistry of mineral deposits archaeology and anthropology organic geochemistry and analytical geochemistry In addition the original Volume 1 on Meteorites Comets and Planets was expanded into two separate volumes dealing with meteorites and planets respectively These additions increased the number of volumes in the Treatise from 9 to 15 with the index appendices volume remaining as the last volume Volume 16 Each of the original volumes was scrutinized by the appropriate volume editors with respect to necessary revisions as well as additions and deletions As a result 27% were republished without major changes 66% were revised and 126 new chapters were added In a many faceted field such as Geochemistry explaining and understanding how

one sub field relates to another is key Instructors will find the complete overviews with extensive cross referencing useful additions to their course packs and students will benefit from the contextual organization of the subject matter Six new volumes added and 66% updated from 1st edition The Editors of this work have taken every measure to include the many suggestions received from readers and ensure comprehensiveness of coverage and added value in this 2nd edition The esteemed Board of Volume Editors and Editors in Chief worked cohesively to ensure a uniform and consistent approach to the content which is an amazing accomplishment for a 15 volume work 16 volumes including index volume

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

**Sulfide Mineralogy and Geochemistry** David J. Vaughan, 2018-12-17 Volume 61 of Reviews in Mineralogy and Geochemistry presents an up to date review of sulfide mineralogy and geochemistry The crystal structures electrical and magnetic properties spectroscopic studies chemical bonding thermochemistry phase relations solution chemistry surface structure and chemistry hydrothermal precipitation processes sulfur isotope geochemistry and geobiology of metal sulfides are reviewed Where it is appropriate for comparison there is brief discussion of the selenide or telluride analogs of the metal sulfides When discussing crystal structures and structural relationships the sulfosalt minerals as well as the sulfides are considered in some detail

*Isotope Geochemistry* Heinrich D Holland, Karl K. Turekian, 2010-09-27 After the discovery that elements were commonly composed of isotopes there developed a range of studies of the variability of isotopic compositions in Earth materials which was able to add to our understanding of Earth processes and history This collection of chapters from the Treatise on Geochemistry describes the range of isotopic studies The chapters are grouped into the following categories light stable isotopes radiogenic tracers noble gases and radioactive tracers The first three groups depend on mass spectrometric measurements The section on radioactive tracers employs both radioactive counting techniques and the newly developed accelerator mass spectrometric techniques Comprehensive interdisciplinary and authoritative content selected by leading subject experts Robust illustrations figures and tables Affordably priced sampling of content from the full Treatise on Geochemistry

*Sulfidic Sediments and Sedimentary Rocks* David Rickard, 2012-12-31 This book deals with sedimentary sulfides which are the most abundant authigenic minerals in sediments Special emphasis is given to the biogeochemistry that plays such a central role in the

formation of sedimentary sulfides It will be of interest to scientists in a number of disciplines including geology microbiology chemistry and environmental science The sulfur system is important to environmental scientists considering the present and future effects of pollution and anoxia The development of the sulfur system particularly the characteristics of ocean anoxia over the last 200 Ma is useful in predicting the future fate of the Earth surface system as well as in understanding the past The biochemistry and microbiology of the sulfur system are key to understanding microbial ecology and the evolution of life First monograph on sedimentary sulfides covering the ancient and modern sedimentary sulfide systems Comprehensive integrating chemistry microbiology geology and environmental science All key references are included and discussed

Precambrian Sedimentary Environments Wladyslaw Altermann, Patricia Corcoran, 2009-03-05 The motivation for this volume came from the idea that the Precambrian is the key both to the present and to the understanding of the Earth as a whole The Precambrian constitutes about 85% of Earth's history and of that about 3.75 billion years of Precambrian time represented by rocks are accessible to geoscientists Ancient atmospheric and environmental conditions can be traced back to the time when the Earth was only about 250 million years old Precambrian rocks supply almost 75% of important mineral resources such as Fe Mn Au Pt and Cr Many of these elements are associated with sedimentary rocks and some important hydrocarbon coal and graphite deposits are also hosted by Precambrian rocks This volume is aimed at geoscientists interested in Precambrian sedimentary rocks and at students of Earth history It contains review articles discussing Precambrian conditions and case studies from Precambrian shields and successions of North and South America Australia Africa Europe Asia and India The introductory papers written by experts on Precambrian environments treat comprehensively the application of actualism to the Precambrian the evolution and influence of life on the sedimentary rock record the genesis of Banded Iron Formations the Precambrian sulphur cycle and the significance of Precambrian chemical carbonate precipitates The case studies include depositional settings and processes in Archean terranes in Paleoproterozoic sequences with some emphasis on the lack of vegetation and weathering and in late Proterozoic sequences with some emphasis on glacial deposits The contributions demonstrate that Precambrian sedimentary deposits are commonly similar to their Phanerozoic counterparts in terms of composition sedimentary processes and depositional setting but may differ significantly as a result of lack of vegetation climatic and biological constraints composition and circulation of seawater and the secular involvement of continental crust Contains review articles discussing Precambrian conditions and case studies from Precambrian shields and successions of North and South America Australia Africa Europe Asia and India The introductory papers written by experts on Precambrian environments treat comprehensively the application of actualism to the Precambrian the evolution and influence of life on the sedimentary rock record the genesis of Banded Iron Formations the Precambrian sulphur cycle and the significance of Precambrian chemical carbonate precipitates Detailed case studies include depositional settings and processes in Archean terranes in Paleoproterozoic sequences with some emphasis on the lack of vegetation and weathering and in

late Proterozoic sequences with some emphasis on glacial deposits Written for geoscientists interested in Precambrian sedimentary rocks and students of Earth history If you are a member of the International Association of Sedimentologists IAS for purchasing details please see <http://www.iasnet.org/publications/details.asp?code=SP33> *Geochemistry* Dionisios Panagiotaras, 2012-05-02 This book brings together the knowledge from a variety of topics within the field of geochemistry The audience for this book consists of a multitude of scientists such as physicists geologists technologists petroleum engineers volcanologists geochemists and government agencies The topics represented facilitate as establishing a starting point for new ideas and further contributions An effective management of geological and environmental issues requires the understanding of recent research in minerals soil ores rocks water sediments The use of geostatistical and geochemical methods relies heavily on the extraction of this book The research presented was carried out by experts and is therefore highly recommended to scientists under and post graduate students who want to gain knowledge about the recent developments in geochemistry and benefit from an enhanced understanding of the dynamics of the earth's system processes

**Magma to Microbe** Robert P. Lowell, Jeffrey S. Seewald, Anna Metaxas, Michael R. Perfit, 2013-04-30 Magma to Microbe Published by the American Geophysical Union as part of the Geophysical Monograph Series Volume 178 Hydrothermal systems at oceanic spreading centers reflect the complex interactions among transport cooling and crystallization of magma fluid circulation in the crust tectonic processes water rock interaction and the utilization of hydrothermal fluids as a metabolic energy source by microbial and macro biological ecosystems The development of mathematical and numerical models that address these complex linkages is a fundamental part the RIDGE 2000 program that attempts to quantify and model the transfer of heat and chemicals from mantle to microbes at oceanic ridges This volume presents the first state of the art picture of model development in this context The most outstanding feature of this volume is its emphasis on mathematical and numerical modeling of a broad array of hydrothermal processes associated with oceanic spreading centers By examining the state of model development in one volume both cross fertilization of ideas and integration across the disparate disciplines that study seafloor hydrothermal systems is facilitated Students and scientists with an interest in oceanic spreading centers in general and more specifically in ridge hydrothermal processes will find this volume to be an up to date and indispensable resource *Reactive Transport Modeling* Yitian Xiao, Fiona Whitaker, Tianfu Xu, 2018-03-14 Teaches the application of Reactive Transport Modeling RTM for subsurface systems in order to expedite the understanding of the behavior of complex geological systems This book lays out the basic principles and approaches of Reactive Transport Modeling RTM for surface and subsurface environments presenting specific workflows and applications The techniques discussed are being increasingly commonly used in a wide range of research fields and the information provided covers fundamental theory practical issues in running reactive transport models and how to apply techniques in specific areas The need for RTM in engineered facilities such as nuclear waste repositories or CO<sub>2</sub> storage sites is ever increasing because the

prediction of the future evolution of these systems has become a legal obligation With increasing recognition of the power of these approaches and their widening adoption comes responsibility to ensure appropriate application of available tools This book aims to provide the requisite understanding of key aspects of RTM and in doing so help identify and thus avoid potential pitfalls Reactive Transport Modeling covers the application of RTM for CO<sub>2</sub> sequestration and geothermal energy development reservoir quality prediction modeling diagenesis modeling geochemical processes in oil modeling gas hydrate production reactive transport in fractured and porous media reactive transport studies for nuclear waste disposal reactive flow modeling in hydrothermal systems and modeling biogeochemical processes Key features include A comprehensive reference for scientists and practitioners entering the area of reactive transport modeling RTM Presented by internationally known experts in the field Covers fundamental theory practical issues in running reactive transport models and hands on examples for applying techniques in specific areas Teaches readers to appreciate the power of RTM and to stimulate usage and application Reactive Transport Modeling is written for graduate students and researchers in academia government laboratories and industry who are interested in applying reactive transport modeling to the topic of their research The book will also appeal to geochemists hydrogeologists geophysicists earth scientists environmental engineers and environmental chemists

**Sediments, Diagenesis, and Sedimentary Rocks** F.T. Mackenzie, 2005-11-22 This volume covers the formation and biogeochemistry of a variety of important sediment types from their initial formation through their conversion diagenesis to sedimentary rocks The volume deals with the chemical mineralogical and isotopic properties of sediments and sedimentary rocks and their use in interpreting the environment of formation and subsequent events in the history of sediments and the nature of the ocean atmosphere system through geological time Reprinted individual volume from the acclaimed Treatise on Geochemistry 10 Volume Set ISBN 0 08 043751 6 published in 2003 Comprehensive and authoritative scope and focus Reviews from renowned scientists across a range of subjects providing both overviews and new data supplemented by extensive bibliographies Extensive illustrations and examples from the field

**Sediment Flux Modeling** Dominic M. DiToro, 2001-01-16 Sedimente in Gewässern enthalten eine Vielzahl chemischer Verbindungen unter anderem Nährstoffe Sauerstoff und toxische Schwermetalle wie Cadmium In diesem Band werden mathematische Methoden zur quantitativen Vorhersage des Flusses solcher Chemikalien vorgestellt Als Eingangsparameter sind nur die Menge der betreffenden Verbindung und die Zustandsgrößen des umgebenden Wassers erforderlich Die Algorithmen eignen sich hervorragend zur Einbindung in moderne Modelle der Wasserqualität 04 00

**Fundamentals of Geobiology** Andrew H. Knoll, Don E. Canfield, Kurt O. Konhauser, 2012-03-30 2012 PROSE Award Earth Science Honorable Mention For more than fifty years scientists have been concerned with the interrelationships of Earth and life Over the past decade however geobiology the name given to this interdisciplinary endeavour has emerged as an exciting and rapidly expanding field fuelled by advances in molecular phylogeny a new microbial ecology made possible by the molecular revolution increasingly

sophisticated new techniques for imaging and determining chemical compositions of solids on nanometer scales the development of non traditional stable isotope analyses Earth systems science and Earth system history and accelerating exploration of other planets within and beyond our solar system Geobiology has many faces there is the microbial weathering of minerals bacterial and skeletal biomineralization the roles of autotrophic and heterotrophic metabolisms in elemental cycling the redox history in the oceans and its relationship to evolution and the origin of life itself This book is the first to set out a coherent set of principles that underpin geobiology and will act as a foundational text that will speed the dissemination of those principles The chapters have been carefully chosen to provide intellectually rich but concise summaries of key topics and each has been written by one or more of the leading scientists in that field Fundamentals of Geobiology is aimed at advanced undergraduates and graduates in the Earth and biological sciences and to the growing number of scientists worldwide who have an interest in this burgeoning new discipline Additional resources for this book can be found at <http://www.wiley.com/go/knoll/geobiology>

**Biogeochemistry of Marine Dissolved Organic Matter** Dennis A. Hansell, Craig A. Carlson, 2024-07-04 Biogeochemistry of Marine Dissolved Organic Matter 3rd edition is the most up to date revision of the fundamental reference for the biogeochemistry of marine dissolved organic matter Since its original publication in June 2002 the science questions and priorities have advanced and the editors of this essential guide have added nine new chapters including one on the South China Sea An indispensable manual edited by the most distinguished experts in the field this book is addressed to graduate students marine scientists and all professionals interested in advancing their knowledge of the field Features up to date knowledge on DOM including 9 new chapters Presents the only published work to synthesize recent research on dissolved organic carbon in the South China Sea a region receiving a great deal of attention in recent decades Offers contributions by world class research leaders

*Ecology of Meromictic Lakes* Ramesh D. Gulati, Egor S. Zadereev, Andrei G. Degermendzhi, 2017-02-22 This volume presents recent advances in the research on meromictic lakes and a state of the art overview of this area After an introduction to the terminology and geographic distribution of meromictic lakes three concise chapters describe their physical chemical and biological features The following eight chapters present case studies of more than a dozen meromictic lakes showing the variety of physical and biochemical processes that promote meromixis The result is a broad picture of the ecology and biochemistry of meromictic lakes in tropical and cold regions in man made pit lakes and euxinic marine lakes and in freshwater as well as hypersaline lakes In the final chapter the editors provide a synthesis of the topic and conclude that the study of meromictic lakes also offers new insights into the limnology of inland lakes The book appeals to researchers in the fields of ecology limnology environmental physics and biophysics

**Geochemistry of Marine Sediments** David J. Burdige, 2020-07-21 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

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