

## Geochemistry of Marine Humic Compounds

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## **GEOCHEMISTRY OF MARINE HUMIC COMPOUNDS**



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Book Condition: New. Publisher/Verlag: Springer, Berlin | Some 90 years ago, the first information on the occurrence of dissolved organic matter in sea water was published. For 50 years after that reve lation, little progress was made in identifying these dissolved "yellow substances." In the 1950s and 1960s, a few chemical oceanographers identified some specific dissolved organic compounds, but few of these pioneers fully appreciated their significance in terms of biological inter actions, metal chelation, or interactions with sedimentary material. When Mohammed Rashid began his work on marine humic compounds in the mid-1960s, he was one of only five scientists who had specifically designed their studies toward understanding the nature of these complex materials. Over the next decade, Dr. Rashid directed his research toward characterization of humic and fulvic compounds in the marine environ ment, the influence of humic substances on the growth of marine phy toplankton, the role of organic matter in complexing metals in sea water and marine sediments, the interaction between humic substances and clay minerals in marine environments, and the influence of organic matter on the geotechnical properties of marine sediments. As if the many papers produced from these scientific investigations were not sufficient, Dr. | 1 Origin and Distribution of Organic Compounds in the Marine Environment.- Inventory of Organic Carbon.- Geochemical Significance of Carbon-Containing Compounds.- Evolution of Life and Development of Organic Matter.- Beginning of Life on Earth.- Primitive Organisms and their Evolution.- Higher Land Plants and Animals.- Genesis and Survival of Organic Compounds During Geological Time.- Distribution of Organic Matter in Oceans and on Land.- Marine Primary Productivity and Factors Governing Productivity.- Global Marine Primary Productivity.- Terrestrial Productivity and Its Impact on Oceans.- Nature and Fate of Organic Matter.- Transformations of Organic Matter in the Water Column.- Origin, Concentrations

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