



Photobiogeochemistry of organic matter [principles and practices in water environments /

Mostofa, Khan M. G.

Springer,
c2013

Libres electrònics

Monografia

Photoinduced processes, caused by natural sunlight, are key functions for sustaining all living organisms through production and transformation of organic matter (OM) in the biosphere. Production of hydrogen peroxide (H₂O₂) from OM is a primary step of photoinduced processes, because H₂O₂ acts as strong reductant and oxidant. It is potentially important in many aquatic reactions, also in association with photosynthesis. Allochthonous and autochthonous dissolved organic matter (DOM) can be involved into several photoinduced or biological processes. DOM subsequently undergoes several physical, chemical, photoinduced and biological processes, which can be affected by global warming. This book is uniquely structured to overview some vital issues, such as: DOM; H₂O₂ and ROOH; HO{8226}; Degradation of DOM; CDOM, FDOM; Photosynthesis; Chlorophyll; Metal complexation, and Global warming, as well as their mutual interrelationships, based on updated scientific results."

<https://rebiunoda.pro.baratznet.cloud:28443/OpacDiscovery/public/catalog/detail/b2FpOmNlbGVicmF0aW9uOmVzLmJhemF0ei5yZW4vMTU1NTE1MzU>

Títol: Photobiogeochemistry of organic matter Recurs electrònic] :) principles and practices in water environments Khan M.G. Mostofa ... [et al.], editors

Editorial: Berlin New York Springer c2013

Descripción física: 1 recurs electrònic

Tipo Audiovisual: Water Organic compound content Water chemistry Photobiochemistry Hydrogen peroxide SCIENCE / Life Sciences / Biochemistry bisacsh Hydrogen peroxide. fast Photobiochemistry. fast Water chemistry. fast Water Organic compound content. fast Sciences de la terre. eclas Environnement. eclas

Mención de serie: Environmental science and engineering. Environmental science

Bibliografía: Includes bibliographical references

Contenido: Dissolved Organic Matter in Natural Waters -- Photoinduced and Microbial Generation of Hydrogen Peroxide and Organic Peroxides in Natural Waters -- Photoinduced Generation of Hydroxyl Radical in Natural

Waters -- Photoinduced and Microbial Degradation of Dissolved Organic Matter in Natural Waters -- Colored and Chromophoric Dissolved Organic Matter in Natural Waters -- Fluorescent Dissolved Organic Matter in Natural Waters -- Photosynthesis in Nature: A New Look -- Chlorophylls and their Degradation in Nature -- Complexation of Dissolved Organic Matter with Trace Metal Ions in Natural Waters -- Impacts of Global Warming on Biogeochemical Cycles in Natural Waters

ISBN: 9783642322235 electronic bk.) 3642322239 electronic bk.) 9783642322228 3642322220 1283945843 9781283945844

Autores: Mostofa, Khan M. G.

Punto acceso adicional serie-Título: Environmental science and engineering (Springer (Firm)). Environmental science SpringerLink eBooks

Baratz Innovación Documental

- Gran Vía, 59 28013 Madrid
- (+34) 91 456 03 60
- informa@baratz.es