Record Nr. UNINA9910452199903321 Algae [[electronic resource]]: nutrition, pollution control and energy **Titolo** sources / / Kristian N. Hagen, editor Pubbl/distr/stampa New York,: Nova Science Publishers, c2009 **ISBN** 1-60876-622-5 Descrizione fisica 1 online resource (337 p.) Altri autori (Persone) HagenKristian N Disciplina 579.8/16 Soggetti Algae as food Algae - Biotechnology Algae - Control Algae Electronic books. Lingua di pubblicazione Inglese **Formato** Materiale a stampa Livello bibliografico Monografia Description based upon print version of record. Note generali Nota di bibliografia Includes bibliographical references and index. ""Algae: Nutrition, Pollution Control and Energy Sources""; ""Contents""; Nota di contenuto ""Preface""; ""Research and Review Studies""; ""Microalgae as Photosynthetic Oxygen Generators for Pollution Control, Life Support Systems and Medicine""; ""Abstract""; ""Introduction""; ""Photosynthetic Oxygen and the Evolution of Life""; ""The use of Photosynthetic Oxygenation for Bioremediation Processes""; ""Photosynthetic Oxygenation for Atmosphere Regeneration in an Enclosed Space Ecosystem""; ""Photosynthetic Oxygen Generator for Artificial Organs"": ""Conclusion""; ""Acknowledgement""; ""References"" ""Polyphosphate Contributes to Cd Tolerance in Chlamydomonas Acidophila KT-1"""Abstract""; ""1. Introduction""; ""2. Material and Methods""; ""3. Results""; ""4. Discussion""; ""References""; ""Study on Lead and Cadmium Absorption by the Organic Components of Natural Biofilms""; ""Abstract""; ""1. Introduction ""; ""2. Experimental Section ""; ""3. Results and Discussion ""; ""4. Conclusion ""; ""Acknowledgments ""; ""References ""; ""Desiccation Tolerance in Green Algae: Implications of Physiological Adaptation and Structural Requirements"; ""Abstract""; ""1. Introduction""

""2. Desiccation Tolerant Green Algae""""3. Desiccation as a General

Problem""; ""4. Lessons from other Desiccation Tolerant Plants""; ""5. Conclusion""; ""Acknowledgement""; ""References""; ""Utilization of Algae for Pollution Elimination""; ""Abstract ""; ""1. Introduction ""; ""2. Behaviour of Algae in the Presence of Inorganic Stressors ""; ""3. Uptake of Metal Ions from the Environment ""; ""4. Removal of Inorganic Pollution ""; ""5. Removal of Organic Pollution ""; ""6. Treatment of Domestic Wastewater and Nutrient Removal ""; ""7. Biomonitoring Using Algae ""; ""8. Conclusion "" ""Acknowledgement """"References ""; ""Ultrasonic Control and Removal of Cyanobacteria""; ""Abstract""; ""1. Introduction""; ""2. Materials and Methods""; ""3. Ultrasonic Algae Control""; ""4. Potential Mechanisms""; ""5. Ultrasonic Degradation of Algal Toxins""; ""Conclusion""; ""References""; ""Effects of Acidification on Photosynthesis and Growth of Marine Algae: A Reapraisal of the Laboratory Data and Their Applicability to the Natural Habitats""; ""Abstract""; ""1. Introduction""; ""2. Is the CO2 a Limiting Factor for the Algal Photosynthesis?"" ""3. Testing the Effects of the Acidification on Photosynthesis and Growth"""4. Conclusion"; ""Acknowledgments"; ""References"; ""Sulfated Polysaccharides from Algae: Characteristic Structures and Their Medicinal Applications""; ""Abstract""; ""Introduction""; ""Sulfated Polysaccharides from Blue-Green Algae ""; ""Sulfated Polysaccharides from Red Algae ""; ""Sulfated Polysaccharides from Green Algae ""; ""Biological Activities of Sulfated Polysaccharides from Algae ""; ""References ""; ""Seaweeds and Thyroid Gland - Potential Sequelae of Seaweed-Derived Iodine""; ""Abstract"" ""Introduction""