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Use of Algae in Wastewater Treatment Systems

Bülent Şen*, M.Tahir Alp*, Mehmet Ali T. Koçer*, Vesile Yıldırım**
*Firat University, Fisheries Faculty. Department of Aquatic Basic Sciences, Elazığ
** Firat University, Art and Science Faculty, Department of Biology, Elazığ

Abstract

Recently, algae have become significant organisms for biological purification of wastewater since they are able to accumulate plant nutrients, heavy metals, pesticides, organic and inorganic toxic substances and radioactive matters in their cells/bodies. Biological wastewater treatment systems with micro algae have particularly gained importance in last 50 years and It is now widely accepted that algal wastewater treatment systems are as effective as conventional treatment systems. These specific features have made algal wastewater treatment systems an significant low-cost alternatives to complex and expensive treatment systems particularly for purification of municipal wastewaters. In addition, algae harvested from treatment ponds are widely used as nitrogen and phosphorus supplement for agricultural purpose and can be subjected to fermentation in order to obtain energy from methane. Algae are also able to accumulate highly toxic substances such as selenium, zinc and arsenic in their cells and/or bodies thus eliminating such substances from aquatic environments. Algal technology in wastewater treatment systems are expected to get more common when considering all these abilities of algae.

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2-4 Nisan 2003 tarihinde İzmir'de yapılacak olan "Photobioreactors" isimli uluslararası Workshop'ta sunulmak üzere gönderdiğiniz, "**Alglerin Atıksu Arıtımında Kullanılması**" isimli çalışmanız, poster olarak sunulmak üzere kabul edilmiştir.



Workshop Koordinatörü

Doç. Dr. Meltem CONK DALAY