

Saber Abdel-Aziz Abdel-Salam Mohamed El-Shafai



**Nutrients Valorisation via
Duckweed-based Wastewater Treatment
and Aquaculture**



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Nutrients Valorisation Via Duckweedbased Wastewater Treatment And Aquaculture

Jordan Brown



Nutrients Valorisation Via Duckweedbased Wastewater Treatment And Aquaculture:

Nutrients Valorisation Via Duckweed-based Wastewater Treatment and Aquaculture Saber Abdel-Aziz Abdel-Salam Mohamed El-Shafai,2004 Eutrophication: causes, consequences and control Abid A. Ansari,Gill Sarvajeet Singh,Guy R. Lanza,Walter Rast,2010-10-17 Eutrophication continues to be a major global challenge to water quality scientists The global demand on water resources due to population increases economic development and emerging energy development schemes has created new environmental challenges to global sustainability Eutrophication causes consequences and control provides a current account of many important aspects of the processes of natural and accelerated eutrophication in major aquatic ecosystems around the world The connections between accelerated eutrophication and climate change chemical contamination of surface waters and major environmental and ecological impacts on aquatic ecosystems are discussed Water quality changes typical of eutrophication events in major climate zones including temperate tropical subtropical and arid regions are included along with current approaches to treat and control increased eutrophication around the world The book provides many useful new insights to address the challenges of global increases in eutrophication and the increasing threats to biodiversity and water quality Effect of Operational Variables on Nitrogen Transformations in Duckweed Stabilization Ponds Julia Rosa Caicedo Bejarano,2005-03-24 There is an urgent need to develop and improve low cost technologies for wastewater treatment Simultaneously treating wastewater and producing duckweed in a pond system is therefore an attractive solution contributing to both environmental protection and food production Duckweed has excellent qualities a high protein content a high growth rate and is an easy crop to handle The small plant turns nitrogen from wastewater into a food source This thesis reports on the effect of different operational variables like anaerobic pre treatment the combination of algae and duckweed ponds and pond depth Improved nitrogen removal was obtained through the combination of duckweed ponds with algae ponds Duckweed pond systems could be designed with shallow depth without affecting nitrogen removal efficiency This research is the result of the cooperative effort between the EIDENAR Univalle Cali Colombia and the UNESCO IHE Institute for Water Education in Delft the Netherlands **Book Review Index Cumulation** Dana Ferguson,2005-09 Book Review Index provides quick access to reviews of books periodicals books on tape and electronic media representing a wide range of popular academic and professional interests The up to date coverage wide scope and inclusion of citations for both newly published and older materials make Book Review Index an exceptionally useful reference tool More than 600 publications are indexed including journals and national general interest publications and newspapers Book Review Index is available in a three issue subscription covering the current year or as an annual cumulation covering the past year Workshop and International Fieldtrip on Valorisation of Nutrients Via Duckweed-based Sewage Treatment and Aquaculture, Phase 1 H. J. Gijzen,M. A. Siebel,2002 **Duckweed Aquaculture** Paul Skillicorn,William Spira,William Journey,1993 **Aquaculture Wastewater Nutrient Removal Through a Living Filter at the Dartmouth Organic**

Farm Eliza Wright Hoffman,2017 *Duckweed Aquaculture* Sascha Iqbal,1999 The Formation of Pelletized Duckweed Jordan Brown,2023 Aquatic plants have the potential to provide a novel approach to improving nutrient management techniques in agriculture Duckweed a small fast growing floating aquatic plant can be a component in wastewater treatment to recover nutrients that might otherwise be lost to the environment This duckweed biomass can then be harvested and upcycled into a nutrient rich product which can be applied to increase soil fertility Prior studies have demonstrated that soils amended with loose unconsolidated duckweed leached less nitrogen N and phosphorous P than the conventional inorganic fertilizer diammonium phosphate DAP However the greenhouse gas GHG emissions from duckweed when used as a biofertilizer have not been quantified In addition the dried material s fundamental mechanical properties when densified into pellets and the resulting impact to nutrient transfer in soils have not been explored which would be helpful in predicting its behavior when applied using automated machinery at the farm scale A preliminary study was conducted to establish suitable conditioning techniques for dried duckweed to maximize the density strength and durability of pellets formed using an open hopper batch pelletizer To understand the agricultural impacts of using pelletized duckweed as a soil amendment a comparative analysis was conducted in a series of replicated laboratory scale soil columns containing either duckweed pellets or DAP that were subjected to a series of simulated rain events In this study the amendments were applied using both broadcast and incorporated methods to determine how application influences GHG emissions and leachate nutrient concentrations The results showed the substantial impact fertilizer applications have on the leachate concentrations of nitrogen and phosphorus Notably the incorporated application of DAP exhibited the highest total nitrogen TN and total phosphorus TP leaching The GHG emission data suggested enhanced microbial activity in response to the duckweed based amendments resulting in a measured increase in the GHG footprint from these treatments particularly under extreme rainfall events that resulted in ponding in the soil columns These tests demonstrated the feasibility of using duckweed biomass as a commodity to reduce aqueous nutrient pollution leached from agriculture however additional testing is needed to confirm GHG emissions under more realistic rainfall scenarios **Duckweed-based Wastewater Treatment Systems** Dan Willett,2005

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