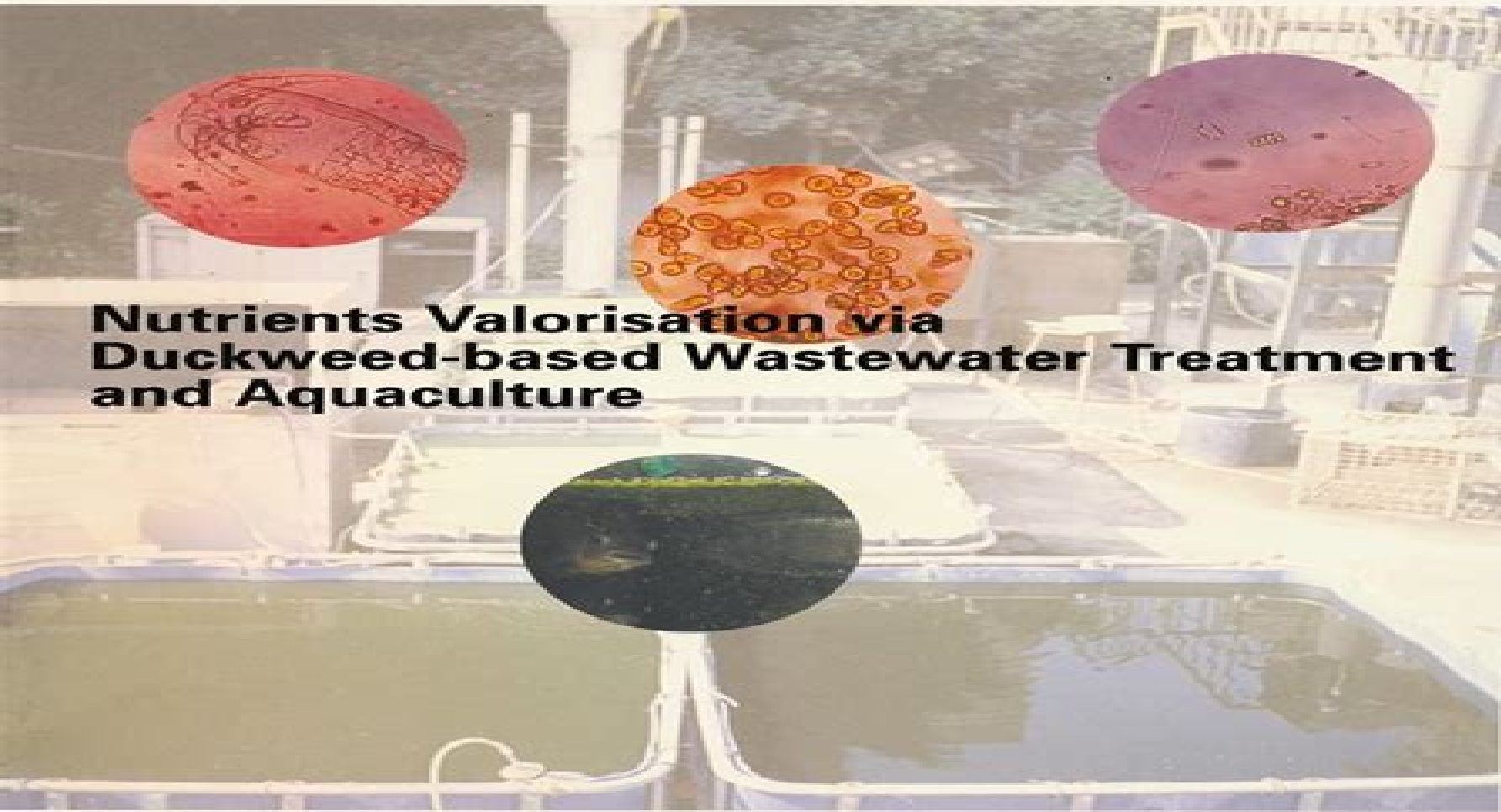


Saber Abdel-Aziz Abdel-Salam Mohamed El-Shafai



Nutrients Valorisation via Duckweed-based Wastewater Treatment and Aquaculture



CRC Press
Taylor & Francis Group

A BALKEMA BOOK

Nutrients Valorisation Via Duckweedbased Wastewater Treatment And Aquaculture

**Saber Abdel-Aziz Abdel-Salam
Mohamed El-Shafai**



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 **Nutrients Valorisation via Duckweed-based Wastewater Treatment and Aquaculture** Saber Abdel-Aziz Abdel-Salam Mohamed El-Shafai,2026-02-02 Development of a sustainable wastewater treatment scheme to recycle sewage nutrients and water in tilapia aquaculture was the main objective of this PhD research Use of an integrated UASB duckweed ponds system for domestic wastewater treatment linked to tilapia aquaculture was investigated The treatment system was efficient in organic matter removal during the entire year while nitrogen phosphorus and faecal coliform removal were negatively affected by the decline in temperature in winter Most of the nitrogen removal was achieved by plant uptake 81 per cent while 14 5 per cent and 4 5 per cent of the removal was due to denitrification and sedimentation respectively The treatment system provided effluent quality and duckweed biomass suitable to reuse in tilapia aquaculture The nutritional value of fresh duckweed was significantly better than for wheat bran and similar to the commercial feed when used in combination with treated sewage from the duckweed ponds This research was carried out with financial support of the Dutch government within the framework of the SAIL funded Wasteval project LUW MEA 971 *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

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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 **Aquatic Plants for the Wastewater Treatment** Alka Rani Upadhyay, 2016 Present book is the findings of innovative research work conducted on the wastewater treatment by non conventional method Aquatic plants have been tested under different experimental conditions for tertiary treatment of wastewater and amazing observations are cited in the book Biomass generated through sequestration of nutrients are recommend for multiple economical benefits

Effectiveness of Aquatic Phytoremediation of Nutrients Via Watercress (*Nasturtium Officinale*), Basil (*Ocimum Basilicum*), Dill (*Anethum Graveolens*) and Lettuce (*Lactuca Sativa*) from Effluent of a Flow-through Aquaculture Operation Derek J. Dyer, 2006 Sustainable Management of Duckweed Biomass Grown for Nutrient Control in Municipal Wastewaters Maureen Kesaano, 2011 The use of duckweed as a nutrient removal option for municipal wastewaters can only be realized through regular plant harvesting As a result the nutrient rich biomass generated needs to be effectively managed and disposed of This study looked at three alternative options for biomass management that would make duckweed based nutrient removal systems sustainable and attractive to small communities like Wellsville City Utah The options included the use of harvested duckweed biomass as an animal feed anaerobic digestion of duckweed for methane production and fermentation of biomass for ethanol production Duckweed feed quality was determined using feed analysis reports and results from digestibility studies in vitro fermentation The performance of the anaerobic digestion process was determined by monitoring pH VS TS NH₄ N VFAs and alkalinity The ethanol production yields were obtained from starch content values and ethanol concentrations observed from batch fermentation experiments Duckweed was composed of 21 38% crude protein 94 96% water 78 5% organic matter

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