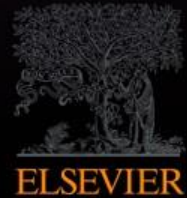


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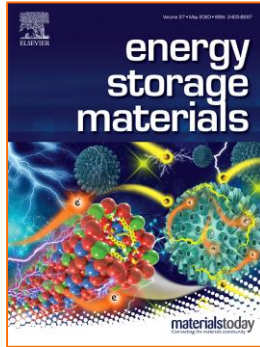
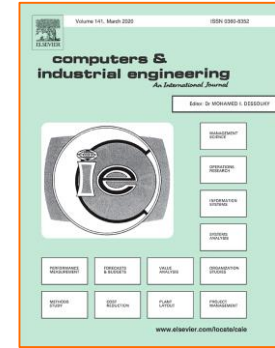
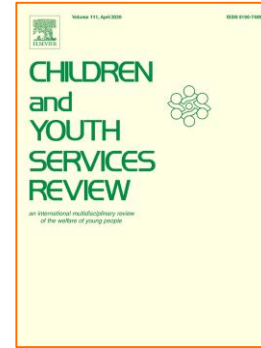
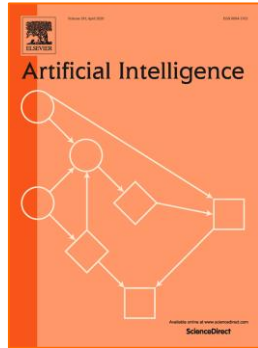


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Agricultural Systems
Volume 167, November 2018, Pages 186-194

Environmental costs and mitigation potential in plastic-greenhouse pepper production system in China: A life cycle assessment

Xiaozhong Wang ^{a, b, c}, Bin Liu ^a, Gang Wu ^d, Yibang Sun ^d, Xisheng Guo ^e, Zhenghui Jin ^a, Weining Xu ^a, Yongzhi Zhao ^f, Fusuo Zhang ^a, Chunqin Zou ^{a, g, h}, Xinping Chen ^{a, b, c}

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Abstract

Intensive vegetable system is commonly considered as high environmental costs due to high inputs, thus quantifying the mitigation potential of various environmental impacts, and developing strategies to improve the sustainability of this system was critical. Here we used partial **life cycle assessment** (LCA) to quantify the environmental impacts of a **plastic-greenhouse** pepper production system in China, and then employed an environmental impact gap methodology to analyze the mitigation potential of various environmental impacts and to establish better management strategy. The results showed that the global warming, acidification, **eutrophication** potentials and energy depletion of 160 farm-gate analysis were in

Eutrophication

Eutrophication can be defined simply as the production of organic matter in excess of what an ecosystem is normally adapted to processing (Nixon, 1995), however, it is only part of a complex web of stressors that interact to shape and direct ecosystem level processes (Breitburg et al., 1998; Cloern, 2001).

From: *Fish Physiology*, 2009

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Eutrophication

V.N. de Jonge, M. Elliott, in *Encyclopedia of Ocean Sciences* (Second Edition), 2001

Introduction

Eutrophication is the enrichment of the environment with nutrients and the concomitant production of undesirable effects, while the presence of **excess nutrients** *per se* is merely regarded as hypernutrification. In more detail, eutrophication is the process of **nutrient enrichment** (usually by nitrogen and phosphorus) in **aquatic ecosystems** such that the productivity of the system ceases to be limited by the availability of nutrients. It occurs naturally over geological time, but may be accelerated by human activities (e.g. sewage disposal or land drainage).

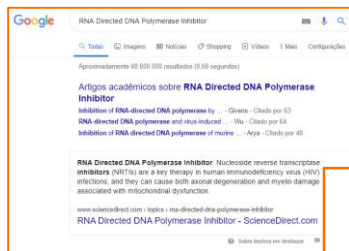
Eutrophication

Daniel A. Lemley, Janine B. Adams, in *Encyclopedia of Ecology* (Second Edition), 2019

Definition

Concern over **eutrophication** is a relatively recent development in the scientific literature, with the earliest recollection dating back to the 1950s. Furthermore, a working definition of what this phenomenon entails was only provided in the mid-1990s, where Nixon (1995) described it as "an increase in the rate of supply of organic matter to an ecosystem." This was a crucial step as it recognized eutrophication as a process rather than confusing it with cause or consequence (i.e., a trophic state). Despite this, however, the definition leaves considerable room for interpretation, particularly from a

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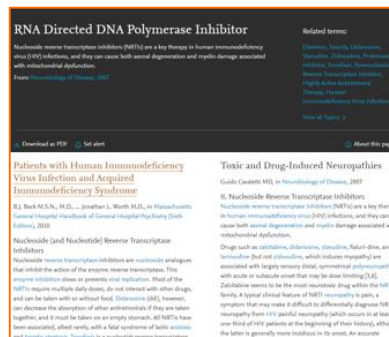


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