

Eutrophication

[View the current Eutrophication InDepth page on BioPortfolio.com](#) (PDF)

(<http://www.bioportfolio.com/indepth/Eutrophication.html>) - Regularly Updated.

Eutrophication, strictly speaking, means an increase in chemical nutrients -- typically compounds containing nitrogen or phosphorus -- in an ecosystem. It may occur on land or in water. The term is however often used to mean the resultant increase in the ecosystem's primary productivity -- in other words excessive plant growth and decay -- and even further impacts, including lack of oxygen and severe reductions in water quality and in fish and other animal populations. ([From the Wikipedia article Eutrophication](#).)

Recent Publications on Eutrophication:



- [Food waste conversion options in Singapore: Environmental impacts based on an LCA perspective.](#)
*Proper management and recycling of huge volumes of food waste is one of...*21st November, 2009
Institute of Chemical and Engineering Sciences, 1 Pesek Road, Jurong- Sci Total Environ. 2009 Nov 17. ([DOI Direct Link](#))
- [A spatial and seasonal assessment of river water chemistry across North West England.](#)
*This paper presents information on the spatial and seasonal patterns of...*21st November, 2009
Department of Environmental and Geographical Sciences, Manchester- Sci Total Environ. 2009 Nov 17. ([DOI Direct Link](#))
- [Soil Acidification in China: Is Controlling SO\(2\) Emissions Enough?](#)
*Facing challenges of increased energy consumption and related regional air...*21st November, 2009
Department of Environmental Science and Engineering, Tsinghua University,- Environ Sci Technol. 2009 Nov 1;43(21):8021-8026. ([DOI Direct Link](#))
- [A Drinking Water Crisis in Lake Taihu, China: Linkage to Climatic Variability and Lake Management.](#)
*In late May, 2007, a drinking water crisis took place in Wuxi, Jiangsu...*17th November, 2009
State Key Laboratory of Lake Science and Environment, Nanjing Institute of- Environ Manage. 2009 Nov 14. ([DOI Direct Link](#))
- [Nitrogen fertilisation enhances water-use efficiency in a saline environment.](#)
*Effects of salinity and nutrients on carbon gain in relation to water use...*13th November, 2009
- Plant Cell Environ. 2009 Nov 11. ([DOI Direct Link](#))
- [Economic, ecological, and social performance of conventional and organic broiler production in the Netherlands.](#)
*1. In this study, we compared a conventional broiler production system...*12th November, 2009
Department of Animal Sciences, Animal Production Systems Group, Wageningen- Br Poult Sci. 2009 Sep;50(5):546-57. ([DOI Direct Link](#))
- [Biomonitoring of coastal areas in Tunisia: Stable isotope and trace element analysis in the Yellow-legged Gull.](#)
*We used Yellow-legged Gull (YLG) chicks to monitor trace elements in...*10th November, 2009
Dept. Biologia Animal, Facultat de Biologia, Universitat de Barcelona,- Mar Pollut Bull. 2009 Nov 4. (

[DOI Direct Link](#))

- [Chapter 2 vulnerability of marine turtles to climate change.](#)
Marine turtles are generally viewed as vulnerable to climate change... 10th November, 2009
Climate Adaptation Flagship, CSIRO Marine and Atmospheric Research,- Adv Mar Biol. 2009;56:151-211. ([DOI Direct Link](#))
- [Bayesian model averaging for harmful algal bloom prediction.](#)
Harmful algal blooms (HABs) are a worldwide problem that have been... 7th November, 2009
School of Natural Resource Sciences, Queensland University of Technology,- Ecol Appl. 2009 Oct;19(7):1805-14.
- [Eutrophication and nutrient release in urban areas of sub-Saharan Africa - A review.](#)
Eutrophication is an increasing problem in sub-Saharan Africa (SSA), and,... 6th November, 2009
UNESCO-IHE Institute for Water Education, Delft, The Netherlands; Makerere- Sci Total Environ. 2009 Nov 2. ([DOI Direct Link](#))
- [A molecular perspective on ecological differentiation and biogeography of cyclotrichiid ciliates.](#)
Cyclotrichiids are of ecological and evolutionary interest by virtue of... 4th November, 2009
Department of Zoology, The University of Oxford, South Parks Road, Oxford- J Eukaryot Microbiol. 2009 Nov-Dec;56(6):559-67. ([DOI Direct Link](#))
- [Coastal eutrophication thresholds: a matter of sediment microbial processes.](#)
In marine sediments, the major anaerobic mineralization processes are... 29th October, 2009
Finnish Environment Institute, Helsinki, Finland.- Ambio. 2009 Sep;38(6):303-8.
- [Model AVSWAT apropos of simulating non-point source pollution in Taiku lake basin.](#)
Accelerated eutrophication and nutrient loads in the lakes are of major... 27th October, 2009
Department of Environmental Engineering, College of Natural Resources and- J Hazard Mater. 2009 Sep 30. ([DOI Direct Link](#))
- [Effect of feed characteristics on the organic matter, nitrogen and phosphorus removal in an activated sludge system treating piggery slurry.](#)
Piggery wastewater is characterized by its high content in nitrogen and... 22nd October, 2009
Department of Chemical Engineering and Environmental Technology,- Water Sci Technol. 2009;60(8):2145-52. ([DOI Direct Link](#))
- [Integrated monitoring of South Portugal water bodies: a methodology towards WFD.](#)
The challenge on implementation of the EU Water Framework Directive (WFD)... 22nd October, 2009
CIMA, EST-Universidade do Algarve, Campus da Penha, Faro, Portugal E-mail:- Water Sci Technol. 2009;60(8):1979-88. ([DOI Direct Link](#))

BioNews Results for Eutrophication

- [Eutrophication of seas may have impact on genetic variation in algae](#)
Topnews.in: Oct 20 2009 7:27AM Matching: eutrophication
- [Eutrophication affects diversity of algae](#)
Genetic Engineering News: Oct 19 2009 7:10PM Matching: eutrophication

Eutrophication Patents:



- 7329532- [Remediation of sulfur-containing pollutants with hydrocarbon-utilizing bacteria](#)
- 7415418- [Method and apparatus for generating standardized environmental benefit credits](#)
- 7415847- [Washing machine](#)
- 7416668- [Wastewater chemical/biological treatment plant recovery apparatus and method](#)
- 7416899- [Method and apparatus for measuring trace ingredients in water](#)
- 7419673- [Anti-viral agents prepared from sea lettuce as raw material](#)
- 7422997- [Method to enhance plant growth with a biological fertilizer composition comprising poultry manure and electromagnetic field treated yeasts](#)
- 7425267- [Method and equipment for treating microcystin-containing water](#)
- 7429329- [Hybrid chemical/mechanical dewatering method for sewage treatment plants](#)
- 7431839- [Low oxygen biologically mediated nutrient removal](#)
- 7438805- [Apparatus for reducing volume of sludge](#)
- 7407580- [System and method for treating carbon, nitrogen, phosphorous containing wastewater](#)
- 7407579- [Method and apparatus for treating ammonium-containing liquid](#)
- 7399416- [Reactive filtration](#)
- 7332074- [Water circulation systems for ponds, lakes, and other bodies of water](#)
- 7332077- [Methods for biological treatment of waste waters](#)
- 7338597- [Apparatus for water treatment](#)
- 7341666- [Poly-.beta.-carboxyacrylamide polymer, use thereof and process for preparing the same](#)
- 7345217- [Polynucleotides and polypeptides in plants](#)
- 7353113- [System, method and computer program product for aquatic environment assessment](#)
- 7384553- [Method for operating anaerobic ammonium oxidation vessel and anaerobic ammonium oxidation equipment](#)
- 7384554- [Methods for total nitrogen removal from waste streams](#)
- 7384573- [Compositions for wastewater treatment](#)
- 7393511- [Ammonia oxidation catalyst for the coal fired utilities](#)
- 7438815- [Inhibiting ammonia emissions and odors from animal wastes with oil](#)
- 7438816- [Method for treating water containing ammonium-nitrogen](#)
- 7550083- [Process and equipment for treating ammonium containing liquid](#)
- 7555866- [Renewably buoyant, self-protective floating habitat](#)
- 7556961- [Method for collecting and acclimatizing anaerobic ammonium oxidizing bacteria, and denitrifying water](#)
- 7563372- [Package dewatering wastewater treatment method](#)
- 7575679- [Process and equipment for treating ammonium containing liquid](#)
- 7575685- [Low oxygen biologically mediated nutrient removal](#)
- 7581902- [In situ immobilization of metals in contaminated sites using stabilized iron phosphate nanoparticles](#)
- 7585898- [Composition for growth of diatom algae](#)
- 7591987- [Method and apparatus for treating ammonia-containing gas](#)
- 7601775- [Fire retardant resin composition, method of its production, shaped articles comprising the same, and silica](#)
- 7550082- [Process and equipment for treating ammonium containing liquid](#)
- 7540959- [Process and equipment for treating ammonium containing liquid](#)
- 7537789- [System controlling soluble phosphorus and nitrates and other nutrients, and a method of using the system](#)
- 7442398- [Phytase produced from Citrobacter braakii](#)
- 7442539- [Method and equipment for cultivating anaerobic ammonium-oxidizing bacteria](#)
- 7452469- [Apparatus having rotary activated Bacillus contractor for purifying sewage and wastewater and method using the same](#)
- 7473794- [Method for the production of cyclic phosphonic acid anhydrides](#)
- 7484329- [Technology for cultivation of Porphyra and other seaweeds in land-based sea water ponds](#)
- 7491322- [Apparatus for removing phosphorus from wastewater](#)
- 7491331- [Methods for total nitrogen removal](#)

- 7510612- [Chemical conversion coating agent and surface-treated metal](#)
- 7511190- [Polynucleotides and polypeptides in plants](#)
- 7537698- [Process and equipment for treating ammonium containing liquid](#)
- 7604745- [Water-purifying solid material made of a natural raw material containing polysaccharides as principal components, and water-purifying method using the same](#)

Resources from the [NCBI](#) used in this document, [NCBI's standard disclaimer applies](#).

Nothing in this document should be used in place of personal medical advice from your own qualified medical practitioner. See BioPortfolio.com [User Agreement](#)

Send comments and feedback to:

Peter Barfoot Managing Director, BioPortfolio Ltd.

UK Tel: (+44) 1300 321501

USA Voicemail and Fax: (+1) 415 680 2472

[Peter Barfoot peter.barfoot@bioportfolio.com](mailto:peter.barfoot@bioportfolio.com)

All rights reserved. All other trademarks recognized.

BioPortfolio Limited is registered in England & Wales at Stafford House, 10 Prince of Wales Road, Dorchester, Dorset, DT1 1PW, UK. No.3312883 VAT No. GB 744 6483 10

Copyright 1997-2009 - BioPortfolio Limited.

