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Biotechnology For Industrial
Wastewater

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Anaerobic granular sludge obtained from a potato wastewater treatment plant in the Netherlands (Colsen) was directly used as the inoculum for BEAD reactor start-up because it is widely utilised to treat high-strength

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organic wastewater and recover methane from wastewater (Wei et al., 2020). In addition, PE-MP with the size of 40–48 μm were ...

Insights into the impact of polyethylene microplastics on methane ...

Activated sludge for AnMBR

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inoculation was collected from an industrial biogas plant for livestock waste treatment (Beijing, China). ... Enhanced strategies for antibiotic removal from swine wastewater in anaerobic digestion ... Soluble microbial products and their implications in mixed culture

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biotechnology. Trends Biotechnol., 29
(2011), pp ...

Impacts of nano-zero-valent iron on
antibiotic removal by anaerobic ...
Anammox, an abbreviation for
anaerobic ammonium oxidation, is a
globally important microbial process of

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the nitrogen cycle that takes place in many natural environments. The bacteria mediating this process were identified in 1999, and were a great surprise for the scientific community. In the anammox reaction, nitrite and ammonium ions are converted directly into diatomic nitrogen and water.

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Anammox - Wikipedia

Research Interests: Waste
Engineering and Environmental
Biotechnology-Development;
modelling and optimization of aerobic
and anaerobic biological treatment
processes for high strength and toxic

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industrial waste streams;
Biodegradation of xenobiotic
compounds; Production of
biodegradable polymers; Development
of biosensors for monitoring ...

Faculty::IIT Delhi::Biochemical
Engineering and Biotechnology

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Anaerobic bacteria degrade organic materials in the absence of oxygen and produce methane and carbon dioxide. The- methane can be reused as an alternative energy source (biogas). Other benefits include a reduction of total bio-solids volume of up to 50-80% and a final waste sludge that is biologi-

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cally stable can serve as a rich humus
for ...

Wastewater: Problem and its
Treatment | Ecology - Biology
Discussion
Using Biotechnology To Restore
Productivity Of Anaerobic Digesters; ...

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and protecting critical infrastructure spanning the water and wastewater, oil and gas, industrial, and civil sectors. GeoTree's premium geopolymer solutions and onshore/offshore structural strengthening products can be applied to culverts, sewers, or civil structure ...

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Water Online - News, Innovations, And Thought Leadership On The Water ...
For example, in anaerobic treatment of agro-industrial waste waters, sulphate reduction results in lower methane yields. In addition, sulphide is toxic, odorous and corrosive.

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The ecology and biotechnology of sulphate-reducing bacteria
In septic tank organic compounds in sewage is anaerobically digested by anaerobic microorganisms such as Methanogenic bacteria. After anaerobic decomposition, the sludge

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become stable and inoffensive whereas liquids in sewage percolates into soil from septic tank. IV. Tertiary or final treatment of waste water:

Sewage treatment; Process of wastewater treatment

PostDoc or PhD position on molecular

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methods for the detection of infectious disease agents in wastewater. July 19, 2022. Eawag - Swiss Federal Institute of Aquatic Science and Technology ... Environmental Microbiology and Biotechnology. June 15, 2022. New Jersey Institute of Technology ... UF and RO Membrane Industrial Postdoc

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Jobs | AEESP

Textile industries are responsible for one of the major environmental pollution problems in the world, because they release undesirable dye effluents. Textile wastewater contains

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dyes mixed with various contaminants at a variety of ranges. Therefore, environmental legislation commonly obligates textile factories to treat these effluents before discharge into the receiving watercourses. The ...

Textile dye wastewater characteristics

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and constituents of synthetic ... wastewater. is is mainly due to the three-dimensional network structure and their ability of incorporating different functional groups into the polymeric networks [91,92,93,94,95].

(PDF) Wastewater Treatment

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Methodologies, Review Article -
ResearchGate

The Department of Biotechnology is a pioneering department, which harnesses and nurtures specific skill sets that integrates life science and technology, and the curriculum is constantly upgraded to suit the

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demands of the industry. ... Our prime area of interest for antibiotic resistance is wastewater treatment plants and animal farms. The ...

Biotechnology – Kumaraguru College
of Technology - KCT
wastewater that can be oxidized by

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bacteria, nor on the rate at which bio-oxidation occurs. 1.9.3 Biochemical oxygen demand (BOD) Biochemical oxygen demand is used as a measure of the quantity of ...

(PDF) INTRODUCTION TO SEWAGE
TREATMENT - ResearchGate

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Fosters has installed the first small-scale microbial fuel cell for brewery wastewater treatment, pictured in Fig. 4. Each long tube is one large Microbial Fuel Cell. Twelve MFCs are placed in parallel to clean the large volume of wastewater. Wastewater flows in at the top, is cleaned by

