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Microbial Granulation Technology for Nutrient Removal from ...

Microbial Granulation Technology for Nutrient Removal from Wastewater by Yu Liu, Lei Qin, Shu-Fang Yang Hardcover, 198 Pages, Published 2007: ISBN-10: 1-60021-513-0 / 1600215130 ISBN-13: 978-1-60021-513-1 / 9781600215131: Need it Fast? 2 day shipping options: Yu Liu, Lei Qin, Shu-Fang Yang.

Microbial Granulation Technology for Nutrient Removal from ...

This process, which includes anaerobic and aerobic granulation can include processing in sequencing batch reactors and used for high-strength wastewater containing organic material, nutrients and toxic substances.

Microbial granulation technology for nutrient removal from ...

Biological phosphorus removal by microbial granules / Yu Liu --11. latest development in microbial granulation technology for nutrient removal / Shu-Fang Yang. Responsibility: Yu Liu, Lei Qin and Shu-Fang Yang. More information: Table of contents

Microbial granulation technology for nutrient removal from ...

The sustainable anaerobic nitrogen removal and microbial granulation were investigated by using a laboratory anaerobic granular sludge bed reactor, treating synthetic (inorganic and organic) wastewater and piggery waste.

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Nutrient removal and microbial granulation in an anaerobic ...

The diffusibility and uptake rate of organic carbon directly influences the microbial competition for substrate, and in turn the granulation (Fig. 1). A slow anaerobic conversion of non-diffusible X B combined with a decreased substrate availability within the granule can result in carbon leakage (i.e., carbon available in aerobic conditions).

Organic substrate diffusibility governs microbial ...

Biological nutrient removal using aerobic granular bioflocs were covered. Biosorption of heavy metals by aerobic granular sludge was extensively discussed. Integration of aerobic granular sludge with membrane technology, microbial fuel cells and microalgae was detailed. Abstract. Aerobic granular sludge involves microbial community, which allows simultaneous removal of carbon, nitrogen, phosphorus, and other pollutants in a single reactor.

Various applications of aerobic granular sludge: A review ...

The performance of N and P removals was recorded during aerobic granulation and after mature granules formed so as to explore the impact of TiO₂-NPs on biological nutrients removal by using algal-bacterial aerobic granules. In addition, changes in microbial community were also disclosed after 100 days' operation. 2.

Effect of TiO₂ nanoparticles on aerobic granulation of ...

Nutrients are necessary for microbial growth and play a vital role in the proper cultivation of microorganisms in the laboratory and for proper growth in their natural environments. The types of nutrients that are required include those that supply energy, carbon and additional necessary materials. The nutrients used to propagate growth are ...

Microbial Nutrition | Boundless Microbiology

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Thus, there is an urgent need for the development of a technology for treatment of wastewater that is economically and practically feasible. The Microbial Fuel Cell (MFC)/Biological Fuel Cell (BFC) is one such technology, which is employed for the treatment of waste and concurrent production of electricity without the emission of greenhouse gases.

Microbial Wastewater Treatment | ScienceDirect

Formulation Technology We design differentiated solutions for a range of pharmaceutical formulation technologies. The technologies we support help address some of the most pressing health challenges and medical trends today.

Formulation Technology - DuPont

Aerobic granules are a type of sludge that can self-immobilize flocs and microorganisms into spherical and strong compact structures. The advantages of aerobic granular sludge are excellent settleability, high biomass retention, simultaneous nutrient removal and tolerance to toxicity.

Aerobic granulation - Wikipedia

ETHOCEL™ resins are excellent granulation binders for dry processing, offering versatility in drug release rates and producing hard tablets with low friability. In small, effective amounts, ETHOCEL™ does not adversely affect tablet disintegration/dissolution rates. Fine particle (FP) grades can also offer improved processing conditions.

Granulation - DuPont Nutrition & Biosciences

Good phosphorus removal and nitrification occurred throughout the SBR operation but only when granules were generated were denitrification and full nutrient removal complete. Fluorescence in situ hybridization and oxygen microsensors were used to study the granules at a microscale.

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Microbial distribution of Accumulibacter spp. and ...

Aerobic granular sludge (AGS) or granular activated sludge is categorized as a 'self-immobilized microbial consortium'. First reported in 1991, this technology has improved significantly to focus on current biological nutrient reduction (BNR) limitations.

Aerobic Granular Sludge: Formation, Microbial Communities ...

Extensive research activities on aerobic granulation technology were mostly started during the period of 1998 to 2001. Aerobic granules are basically quorum sensing mediated auto-immobilized microspheres of mixed microbial consortium and are typically 1-3 mm in diameter. Their outer surfaces are dominated by aerobic microorganisms, whereas the inner core regions may contain facultative and obligate anaerobic microorganisms as well as dead microbial biomass.

Finding Knowledge Gaps in Aerobic Granulation Technology ...

Aerobic granular sludge (AGS) process is a fast-growing sustainable biological treatment for wastewater. Activated sludge (AS) is the standard inoculum used for cultivating AGS, even for the treatment of saline wastewaters. However, the application of the allochthonous AS community for both developing halotolerant AGS and establishing biological nutrient removal (BNR) under saline conditions is a challenging task.

Granulation of the autochthonous planktonic bacterial ...

Aerobic granulation technology is more appropriate for the treatment of high-strength industrial wastewater. For the treatment of low-strength domestic wastewater, it will be necessary to increase its COD by the addition of external carbon sources such as volatile fatty acids. Aerobic granules have excellent nutrient removal efficiency.

Aerobic granulation for future wastewater treatment ...

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