Scientific Research



Search Keywords, Title, Author, ISBN, ISSN

Н	lome	Journals	Books	Conferences	News	About Us	s Job	
♠ H	Home > Journal > Earth & Environmental Sciences > NR						Open Special Issues	
Index	dexing View Papers Aims & Scope Editorial Board Guideline Article Processing Charges					Published Special Issues		
NR> V	NR> Vol.2 No.2, June 2011						Special Issues Guideline	
OPEN©ACCESS Treatment and Recycling of Wastewater by Submerged Hollow Fiber Membrane						NR Subscription		
	PDF (Size: 284KB) PP. 71-74 DOI: 10.4236/nr.2011.22009 Author(s) Dewen He, Huangnian Zhou, Lei Liu, Dingmin Liang, Lu Du ABSTRACT In this study, the effects of experimental conditions including the MBR equipped novel device and different operating modes on permeate flux were studied. The results show that the MBR equipped novel device can reduce the resistance and enhance the flux, decreasing the total resistance (R _t = 9.649) to 5.962 and increasing the permeate flux to 15 - 20 L/m ² hr. The permeate flux of intermittent operating mode is more						Most popular papers in NR	
							About NR News	
Dewer							Frequently Asked Questions	
In this operat							Recommend to Peers	
							Recommend to Library	
than that of continuous operation and the value of the permeate flux is between 15 I/m^2hr and 20 I/m^2hr . The MBR equipped novel device which adopting intermittent operating mode is most effective in this study and the value of permeate flux is between 20 I/m^2hr and 25 I/m^2hr .						Contact Us		
KEYWORDS						Downloads:	62,819	
	Membrane Bioreactor, Separation, Fouling, Hollow Fiber Membrane					Visits:	185,464	
D. He,		•		cycling of Wastewater by 74. doi: 10.4236/nr.2011.	•	Sponsors, Links >>	Associates, a	
Refer	rences							
[1]	Titanium	3	Acta Radiologica, V	Com-parative Study of MR 'ol. 42, No. 3, 200	8 8			
[2]				Emulsion by Polyethylene (, No. 5, 2005, pp. 542-545	5			
[3]	Membrane	Bioreactor in the E	Biodegrada-tion of Hig	rbain and J. Manem, " E gh Molecular Weight Col 016/S0043-1354(97)0035	mpounds," Water			
[4]	T. Mukai, K. Taki-moto, T. Kohno and M. Okada, "Ultrafiltration Behaviour of Extracellular and Metabolic Products in Activated Sludge Sys-tem with UF Separation Process," Water Research, Vol. 34, No. 3, 2000, pp. 902-908. doi:10.1016/S0043-1354(99)00208-0							
[5]	X. C. Wang and J. Wang, "Kinetic Study of Membrane Fouling under Cross-Flow Ultrafiltration Opteration," Environmental Chemistry, Vol. 21, No. 6, 2002, pp. 552-558.							
[6]	the ultrafilt		er," Journal of Membr	ic model for predicting fou ane Science, Vol. 109, No				

[7] M. Cheryan, " UI-trafiltration Handbook," Technomic, Lancaster, 1986.

204. doi: 10.1016/0376-7388(95)00200-6

[8] S. Kunikane, Y. Magara, M. Itoh and O. Tanaka, " A Comparative Study on the Application of Membrane Technology to the Pub-lic Water Supply," Journal of membrane science, Vol. 102, 1995, pp. 149-154. doi:10.1016/0376-7388(94)00292-7

[9] T. Jiang, M. D. Ken-nedy, G. J. Walter, van der Meer, P. A. Vanrolleghem and J. C. Schippers, " The

Role of Blocking and Cake Filtration in MBR Fouling," Desalination, Vol. 157, 2003, pp. 335-343. doi:10.1016/S0011-9164(03)00414-4

- [10] E. H. Bouhabila, R. B. A?m and B. Hervé, "Fouling Characterization in Membrane Bioreactors," Separation and Purification Technology, Vol. 22-23, 2001, pp. 123-132. doi:10.1016/S1383-5866(00) 00156-8
- [11] C. Albasi, Y. Bess-iere, S. Desclaux and J. C. Remigy, "Filtration of Biological Sludge by Immersed Hollow-Fiber Membranes: Influence of Initial Permeability Choice of Operating Conditions," Desalination, Vol. 146, 2002, pp. 427-431. doi:10.1016/S0011-9164(02)00527-1
- [12] C. Albasi, Y. Bess-iere, S. Desclaux and J. C. Remigy, "Filtration of Biological Sludge by Immersed Hollow-Fiber Membranes: Influence of Initial Permeability Choice of Operating Conditions," Desalination, Vol. 146, 2002, pp. 427-431. doi:10.1016/S0011-9164(02)00527-1
- [13] C. Albasi, Y. Bess-iere, S. Desclaux and J. C. Remigy, "Filtration of biological sludge by immersed