

:

sahand359@yahoo.com :

// : // :

g/L ( × × × )

COD mg/L COD g/L ×

mg/L PAC

COD ( mg/L) COD ( mg/L)

Amakrane et al. 1997; Chiang et al. )  
2001; Park et al. 2001; Renou et al. 2008;  
(Irene 1997

(Ahn et al. 2002)

COD

SBR

Bohdziewicz et al. 2001; Diamadopoulos )  
et al. 1997; Ding et al. 2001; Geenens et al.  
(2001

/ mg/L  
COD

Satyawali and Balakrishnan 2009; Foo )  
(and Hameed 2009; Trebouet et al. 2001

/ mg/L

Li and Zhao 2001; Im )  
et al. 2001; Kettunen et al. 1996; Kim et al.  
(1997

( )



×

mg/L

pH (± )

) /

(± /

%

( )

Jorfi )

(et al. 2009

MLSS

COD

:

pH

( )

COD

mg/L ×

COD

American Public Health )

mg/L

(Associatin, 2005

×

/ rpm

COD

mg/L

COD

(.5220B)

/ mg/L

(.4500-NH<sub>3</sub>B)

mg/L

COD

×

/

(.2540D)

(.4500OC)

l...

mg/L / mg/L

MLSS ×

MLSS MLSS

mg/L

MLSS

mg/L ×

MLSS mg/L mg/L

MLSS × ×

( ) MLSS

× × COD

( )

:

( )

×

COD

( × × × )

g/L

/ mg/L COD

/ mg/L

COD × ×

mg/L

PAC / mg/L /

COD

PAC

COD

COD

COD

mg/L

MLSS

MLSS

× × ×

PAC

	x	x			
	x				PAC
Fikret and Pamukoglu )	/				
			(2003		
g/L	( )				
COD				UASB	COD
x	/				
x	x				/
			(Liyan et al. 2009)	COD	(Kennedy et al. 2000)
			PACT		MBR
			COD		(Jolanta et al. 2008)
			(Aghamohammadi et al. 2007)		-
			COD		
					COD
				Shuler and Kargi )	
				MBBR	(2002
				COD	
			COD	Loukidoa and Zouboulis )	
					(2001
				COD	
				Jokela et al. )	
					(2002

l...

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/ ± /	(%)
/ ± /	(%)
± /	(%)
/ ± /	(g/cm <sup>3</sup> )
	(mg/g)
±	(mg/g)
	(m <sup>2</sup> /g)
± /	( )
	(%)
	(%)
± /	pH

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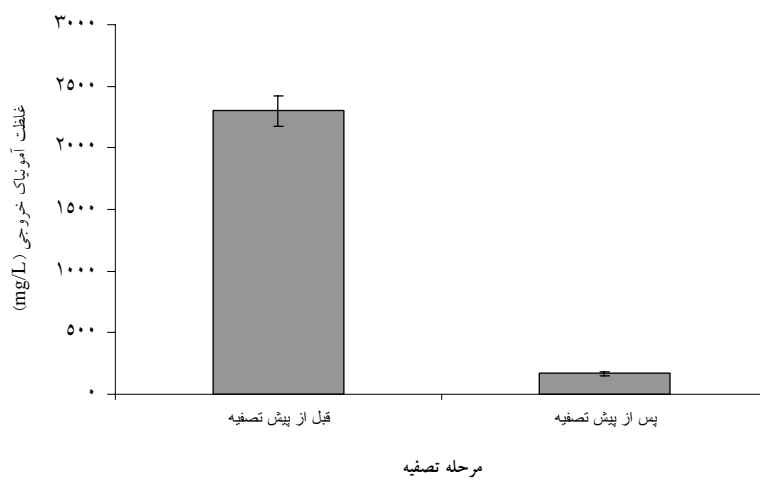
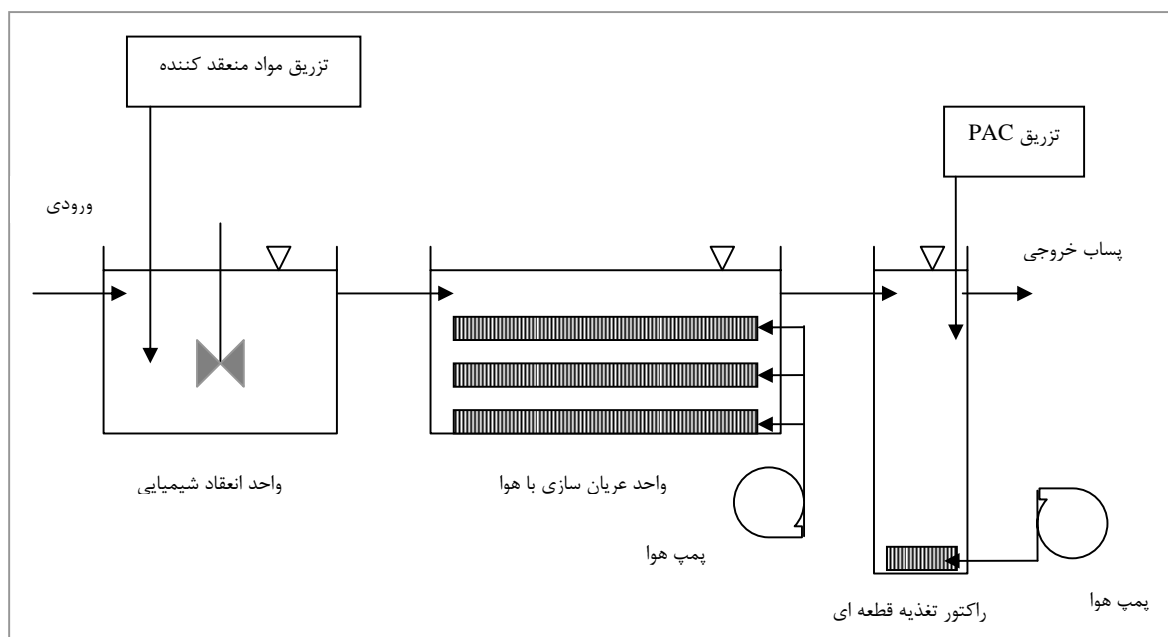
COD			( )
± /	± /		×
± /	± /		×
± /	± /		×

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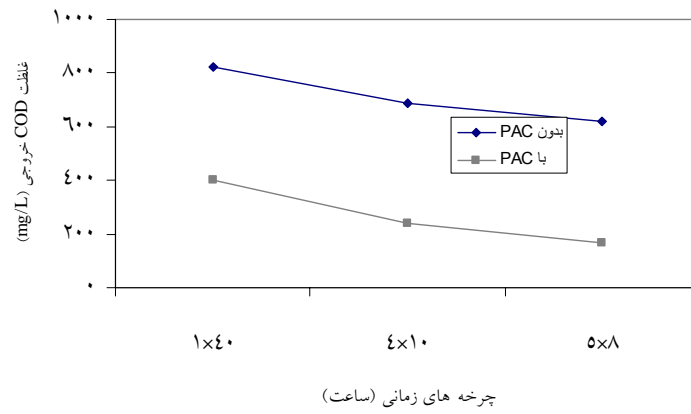
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COD			( )	
± /	/	± /	/	×
± /	/	± /	/	×
± /	/	± /	/	×

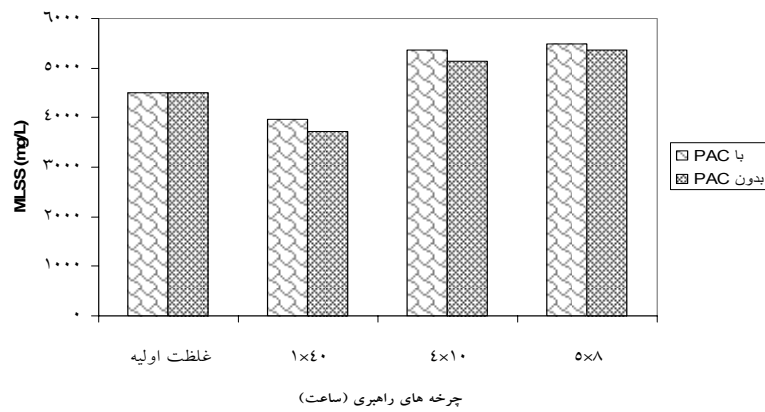
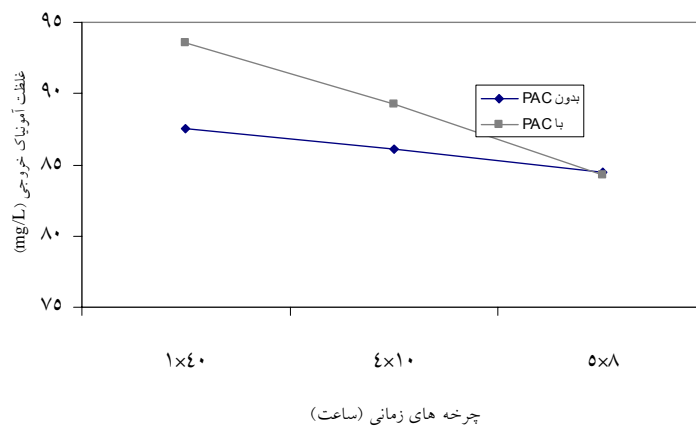
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**COD**



**MLSS**



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