

:

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-NH₃B)

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

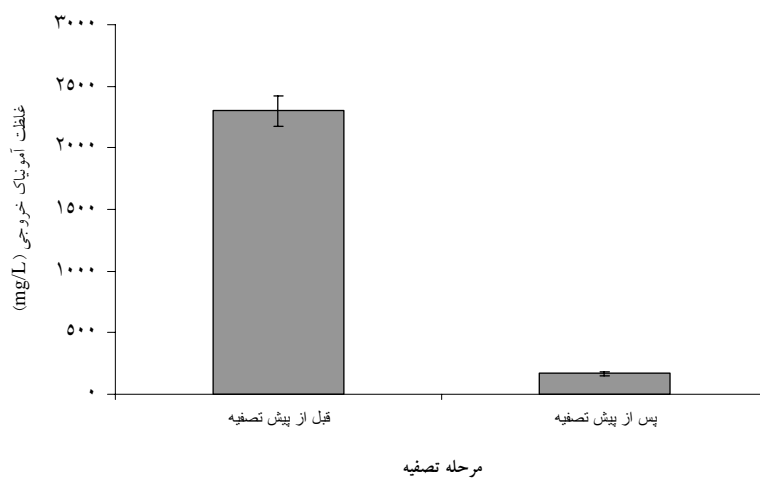
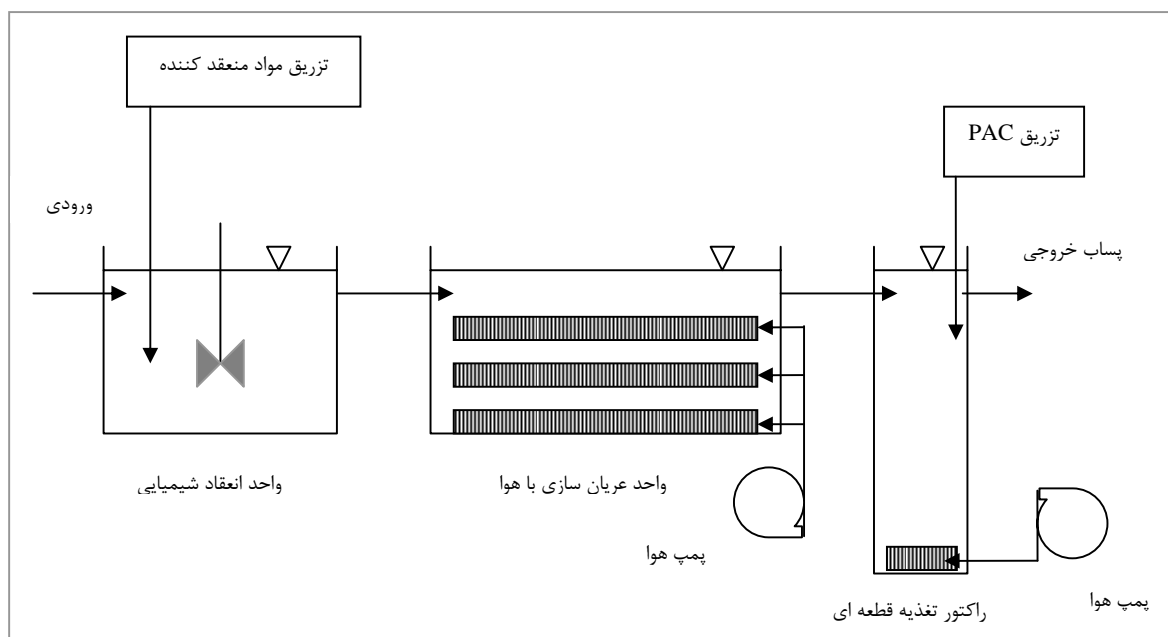
	x	x			
	x				PAC
Fikret and Pamukoglu)	/				
			(2003		
g/L	()				
COD				UASB	COD
x	/				
x	x				/
			(Liyani et al. 2009)	COD	(Kennedy et al. 2000)
		PACT		MBR	
		COD			
		(Aghamohammadi et al. 2007)		(Jolanta et al. 2008)	
				-	
			COD		
					COD
				Shuler and Kargi)	
				MBBR	(2002
				COD	
		COD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

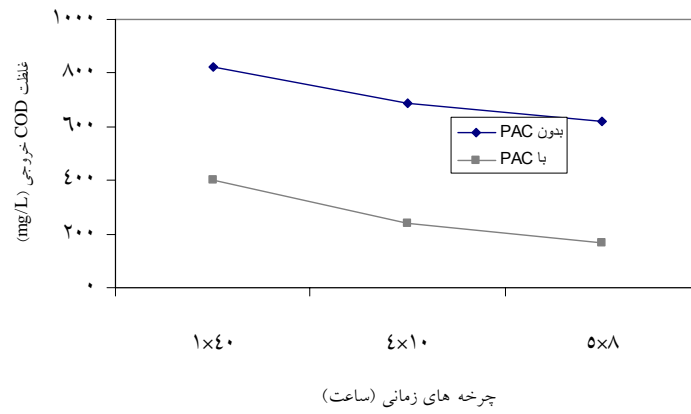
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/ ± /	(%)
/ ± /	(%)
± /	(%)
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±	(mg/g)
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± /	()
	(%)
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± /	pH

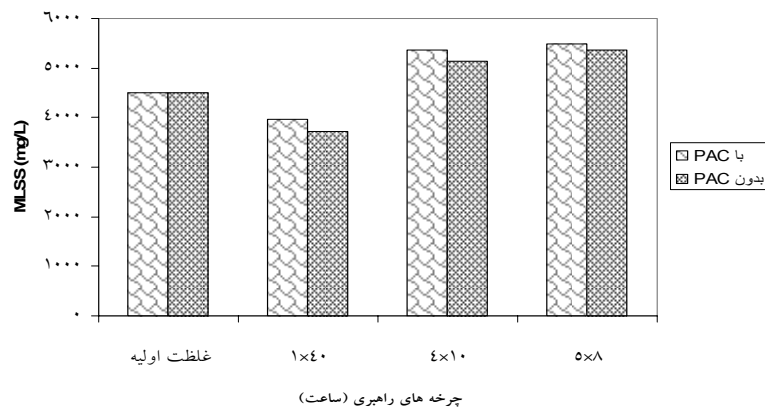
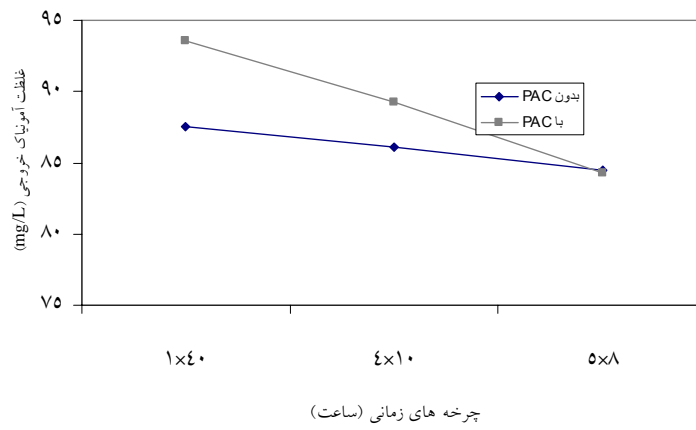
COD			()
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COD				()
± /	/	± /	/	×
± /	/	± /	/	×
± /	/	± /	/	×





COD



MLSS



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