

:

sahand359@yahoo.com :

// : // :

g/L (× × ×)

COD mg/L COD g/L ×

pH

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)

()

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// C/N/P

pH .

g/L

)

(g/L

/

COD

COD

pH

g/L

TSS

pH / g/L

pH

COD

mg/L

/

/

/

/

x

x

x

pH COD

/

/

COD

g/L

mg/L

:

x

KH₂PO₄

mg/L

COD

×

mg/L

pH (±)

) /

(± /

%

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Jorfi)

(et al. 2009

MLSS

COD

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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)

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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

COD

MLSS

mg/L

MLSS

× × ×

PAC

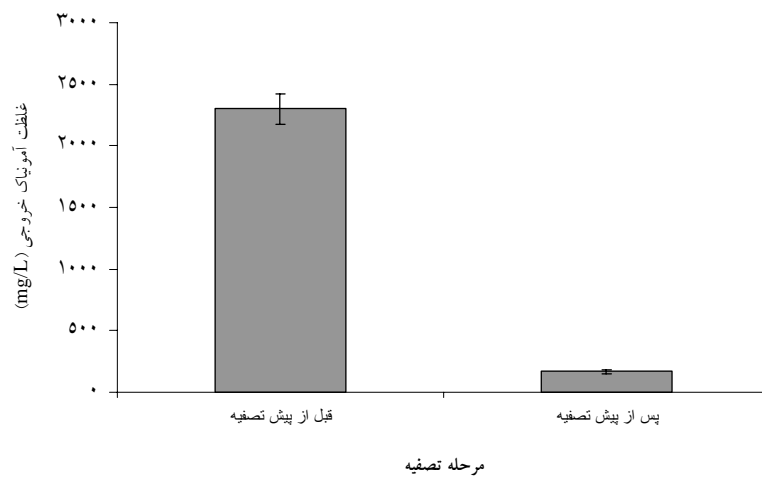
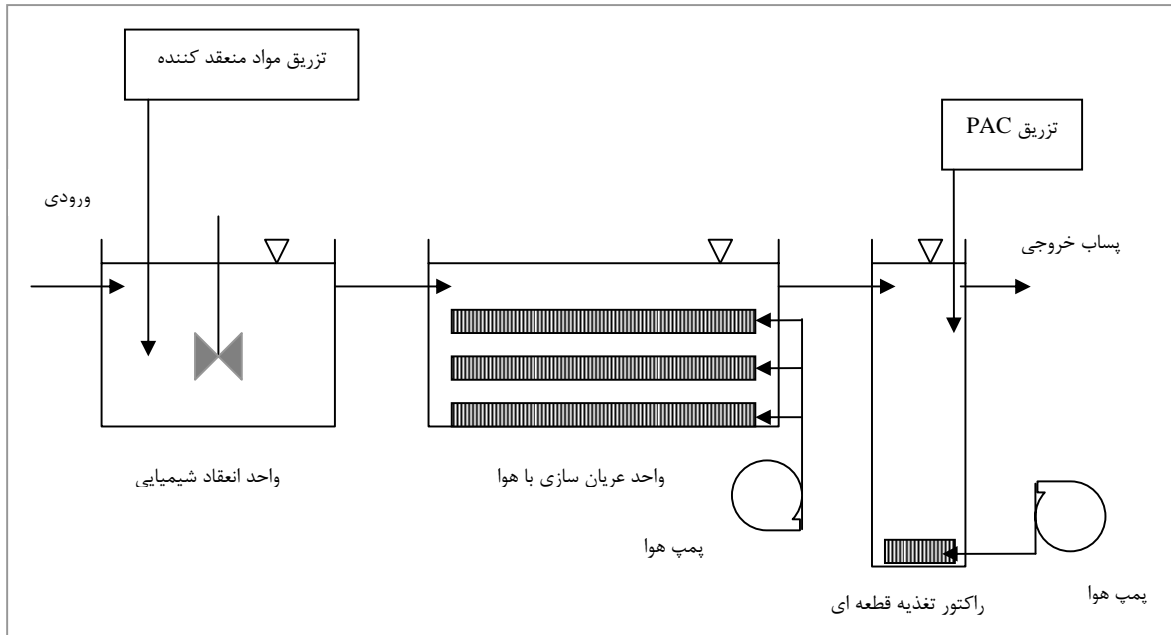
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	x						PAC
Fikret and Pamukoglu)			/				
				(2003			
	g/L	()					
	COD				UASB		COD
x			/				
x	x						/
				(Liyan et al. 2009)	COD		(Kennedy et al. 2000)
				PACT			MBR
				COD			(Jolanta et al. 2008)
				(Aghamohammadi et al. 2007)			-
				COD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

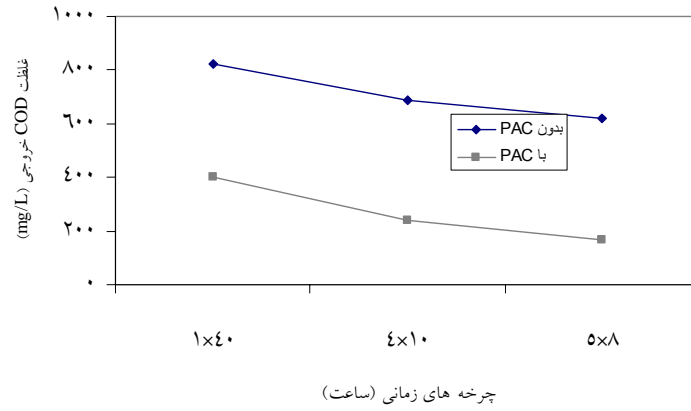
l...

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

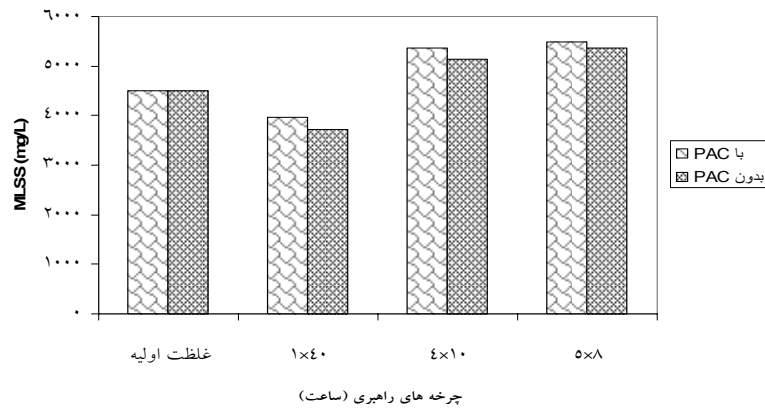
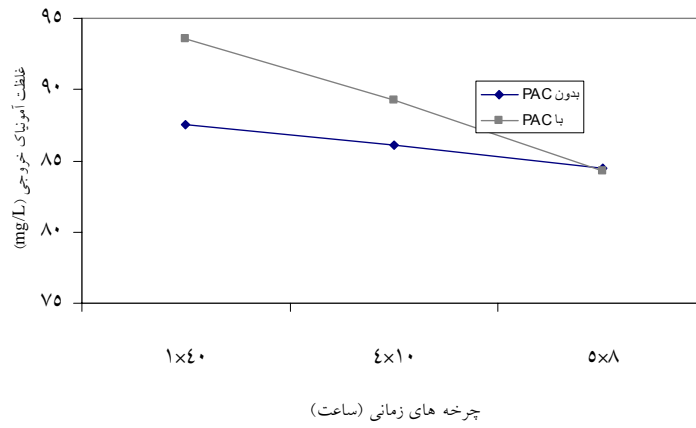
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COD				()
± /	/	± /	/	×
± /	/	± /	/	×
± /	/	± /	/	×





COD



MLSS



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