

:

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)

()

l...

// 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 (±)

) /

(± /

%

()

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

/ / COD × × / mg/L

COD mg/L

× PAC / mg/L /

× COD

PAC PAC

COD

COD

COD

COD

mg/L MLSS

MLSS

× × × PAC

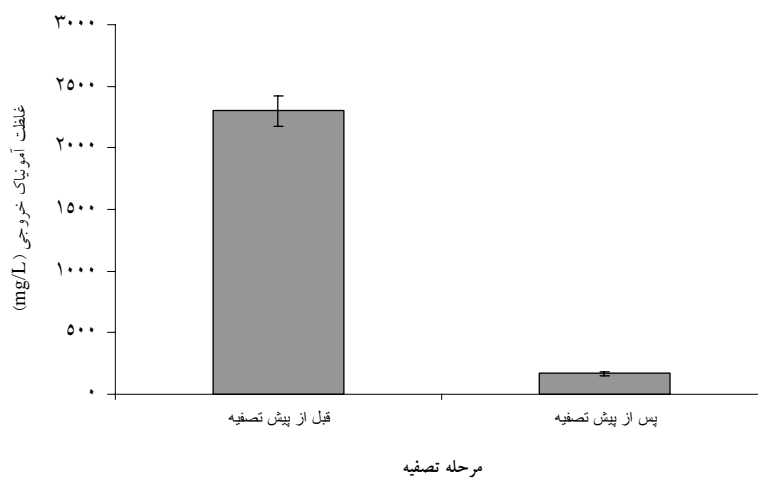
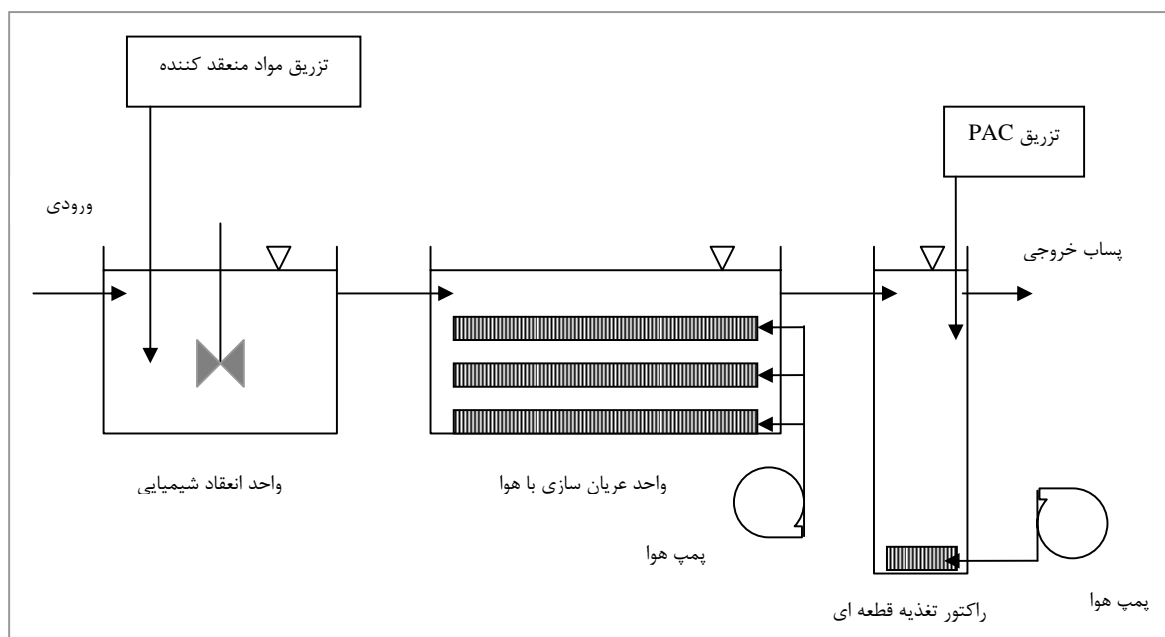
| | | | | | | |
|------------------------|---|---|-----------------------------|--------------------------|-----------------------|-------|
| | x | x | | | | |
| | x | | | | | PAC |
| Fikret and Pamukoglu) | | / | | | | |
| | | | (2003 | | | |
| g/L | (|) | | | | |
| COD | | | | UASB | | COD |
| x | | / | | | | |
| 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 |

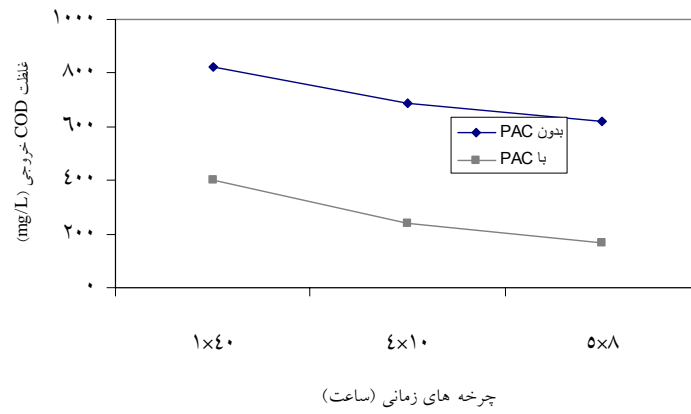
l...

| | |
|-------|----------------------|
| / ± / | (%) |
| / ± / | (%) |
| ± / | (%) |
| / ± / | (g/cm ³) |
| | (mg/g) |
| ± | (mg/g) |
| | (m ² /g) |
| ± / | () |
| | (%) |
| | (%) |
| ± / | pH |

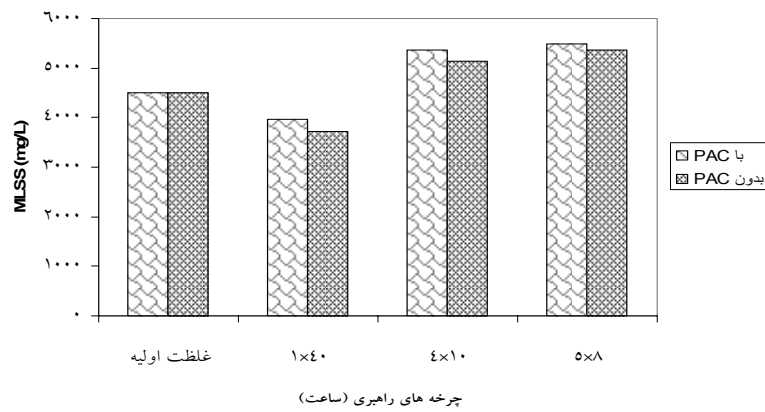
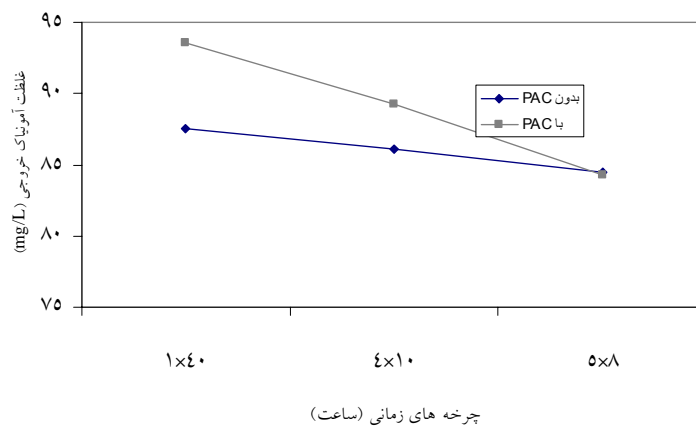
| | | | |
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| COD | | | () |
| ± / | ± / | | × |
| ± / | ± / | | × |
| ± / | ± / | | × |

| | | | | |
|-----|---|-----|-----|---|
| COD | | | () | |
| ± / | / | ± / | / | × |
| ± / | / | ± / | / | × |
| ± / | / | ± / | / | × |





COD



MLSS



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