

:

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

()

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

/ mg/L

COD × ×

mg/L

PAC / mg/L /

COD

PAC

COD

COD

COD

mg/L

MLSS

MLSS

× × ×

PAC

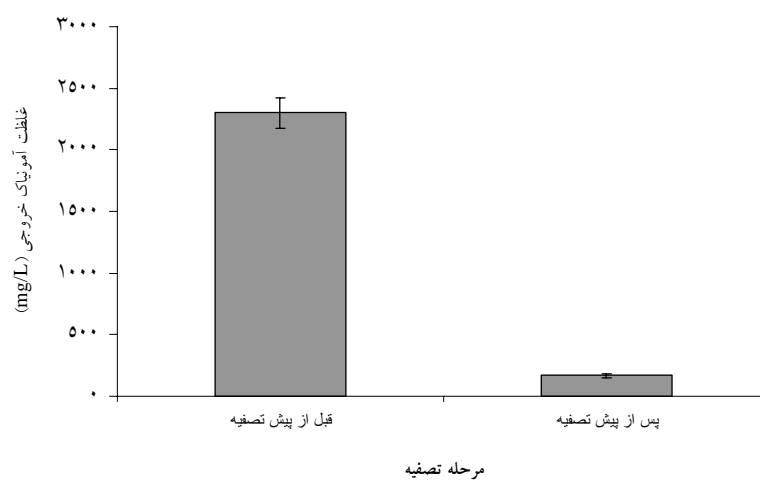
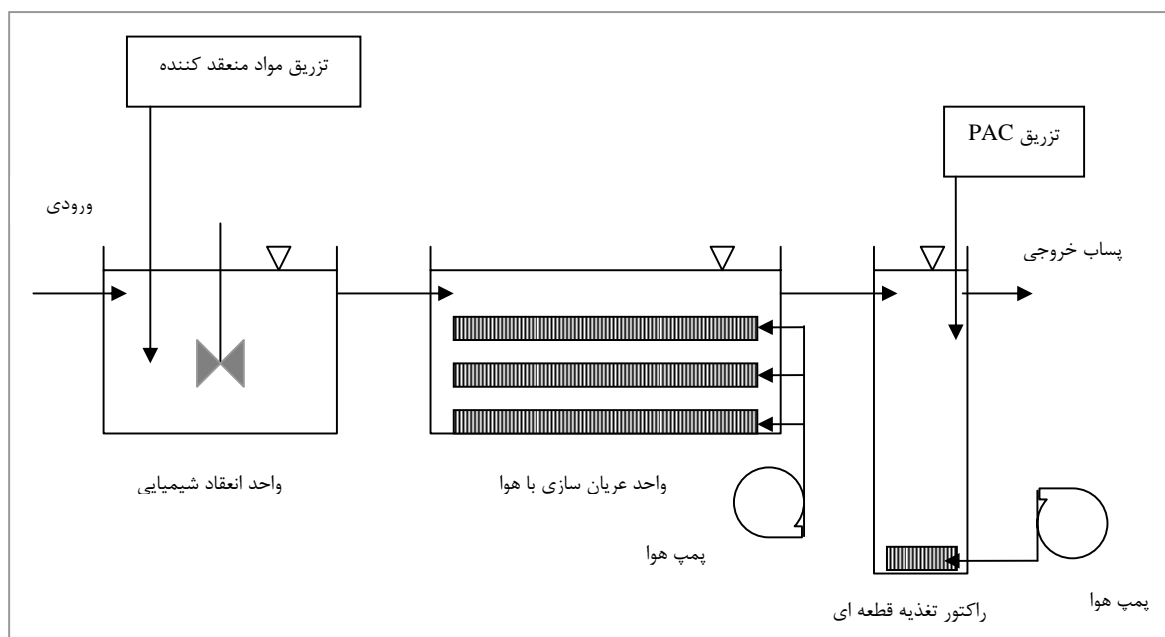
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|------------------------|-----|-----------------------------|-------|--------------------------|-----------------------|-------|
| | x | x | | | | |
| x | | | | | | PAC |
| Fikret and Pamukoglu) | / | | | | | |
| | | | (2003 | | | |
| g/L | () | |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

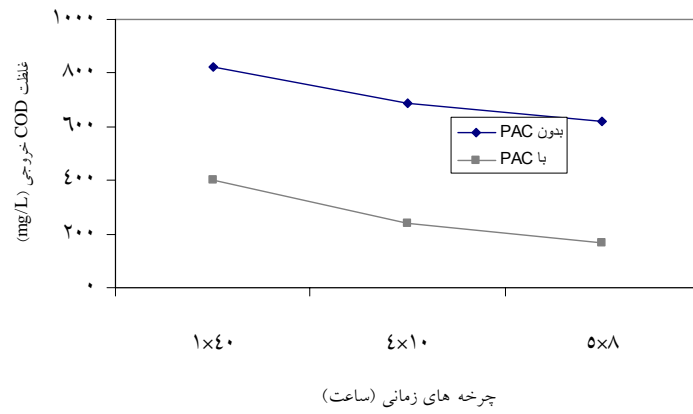
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| | |
|-------|----------------------|
| / ± / | (%) |
| / ± / | (%) |
| ± / | (%) |
| / ± / | (g/cm ³) |
| | (mg/g) |
| ± | (mg/g) |
| | (m ² /g) |
| ± / | () |
| | (%) |
| | (%) |
| ± / | pH |

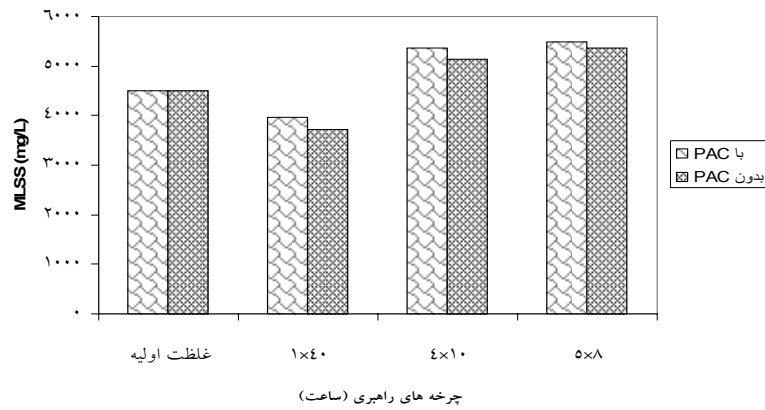
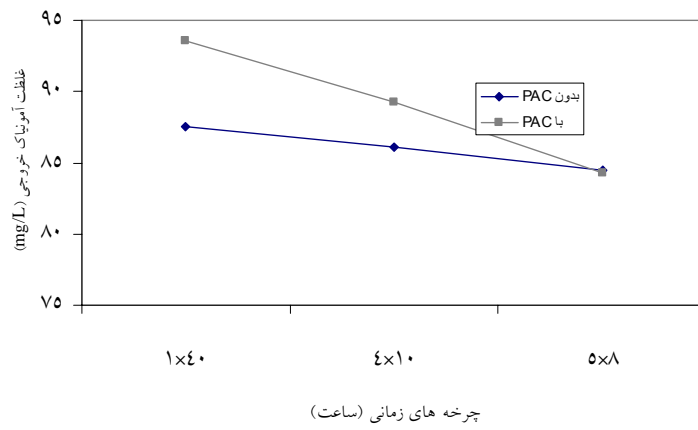
| | | | |
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| COD | | | () |
| ± / | ± / | | × |
| ± / | ± / | | × |
| ± / | ± / | | × |

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





COD



MLSS



فرآیند تصفیه شیرآبه

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