

( ) , ( )

\*

( // : // : )

l )

( ) (p < 0.01)  
pH

(Virkyute *et al.*, 2002)

(Reddy and

(Giachetti and

.Cameselle, 2009)

.Sebastiani, 2006)

(DC)

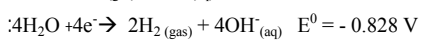
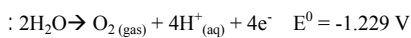
(Virkyute *et al.*, 2002)

(Giannis *et al.*,

.2007)

(Acar and Alshwabkeh, 1993)

(Reddy and Cameselle, 2009)



°C ) pH

(

(Lear *et al.*, 2004)

(Lear *et*

*al.*, 2004; Lear *et al.*, 2007)

(Acar and Alshwabkeh, 1993; Reddy and

(2004) Luo *et al.*

(Wang *et al.*, 2009)

.Cameselle, 2009)

pH

(Wick *et al.*, 2007)

(Wang *et al.*, 2009)

(Brookes, 1995)

pH

(Brookes, 1995)

(Lear *et al.*, 2004)

(Lear *et al.*, (PCP)

pH

2007)

(Reddy and Cameselle, 2009)

pH

pH

pH

(Sparks, 1996)

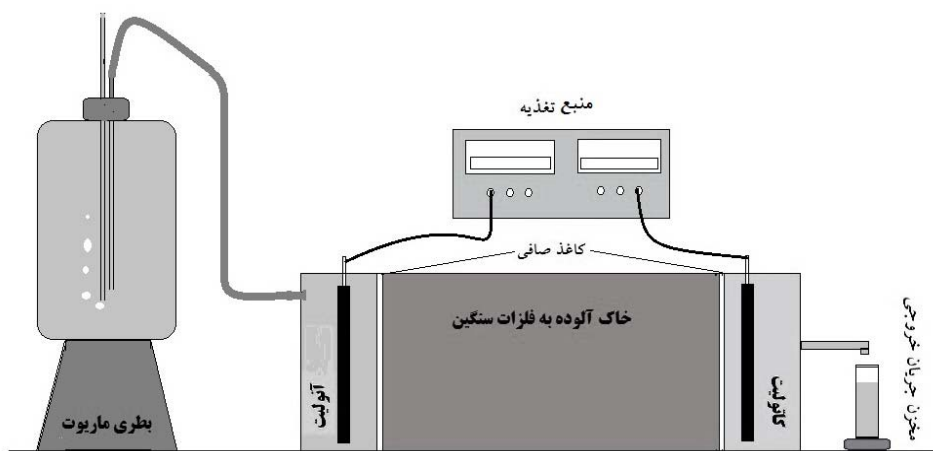
(Richards *et al.*, 1998)

( )

کادمیوم	نیکل	سرب	روی	رطوبت	pH عصاره	EC عصاره	کربنات	ماده آلی	شن	سیلت	رس
			غلظت فلزات سنگین قابل استخراج یا اسید	اشباع	اشباع	اشباع	کلسیم	(%)	(%)	(%)	(%)
		نیتریک چهار نرمال (mg kg <sup>-1</sup> )	(%)		(dS m <sup>-1</sup> )	معادل (%)					
۱۷/۴۶	۸۳/۰۶	۳۹۰۹/۰۷	۵۷۷۸/۰۰	۳۸/۸۸	۸/۲	۱/۴۳	۱۲/۷	۰/۸۶	۴۴	۲۸	۲۸

× ×

(Reddy and Chinthamreddy, 2003)



( )

Sigmaplot 11.0

)

× ×

( /

: pH

:

pH

pH (p < 0.01)

pH

pH ( )

pH

H<sup>+</sup>

(Metrohm 744)

pH

pH

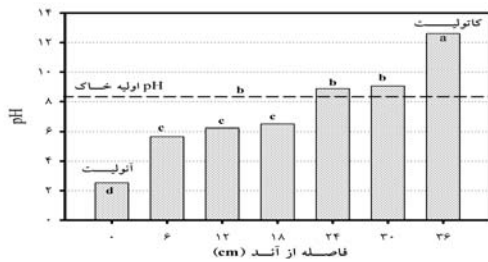
OH<sup>-</sup>

(Acar and Alshwabkeh, 1993; Reddy and

Cameselle, 2009)

(Richards *et al.*, 1998)

(Shimudzu 670 )



(SMBC)

(Vance *et al.*,

Extraction-Fumigation (EF)

.1978)

( )

(66.7 mM K<sub>2</sub>Cr<sub>2</sub>O<sub>7</sub>)

Biomass C = 2.64 ± 0.060 (E<sub>c</sub>)

( )

$$E_c = C_F - C_{nF}$$

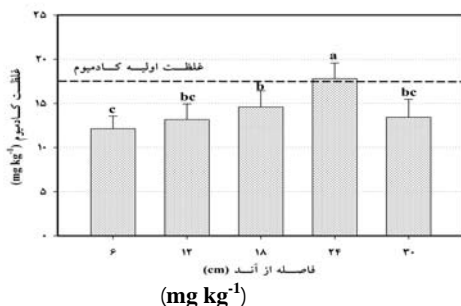
E<sub>c</sub>

C<sub>F</sub>

C<sub>nF</sub>

(Vance *et al.*, 1978)

(Cang *et al.*, 2009)

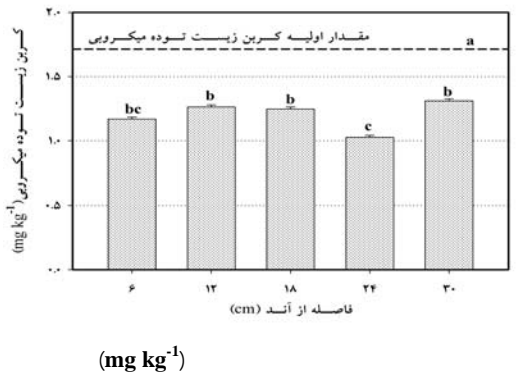


(C<sub>mic</sub>/C<sub>org</sub>)

(Shukurova *et al.*, 2006)

SPSS 16.0

( )



(mg kg<sup>-1</sup>)

(Oliveira and Pampulha, 2006)

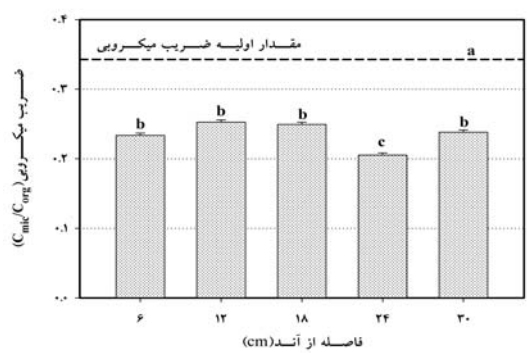
(Shukurova *et al.*, 2006; Vance *et al.*, 1978; Vásquez-Murrieta *et al.*, 2006)

( )

(SOC)

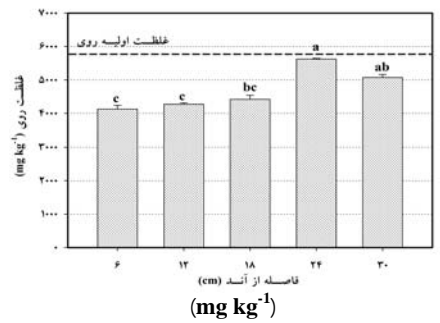
(Cang (Chen *et al.*, 2006)

*et al.*, 2009)

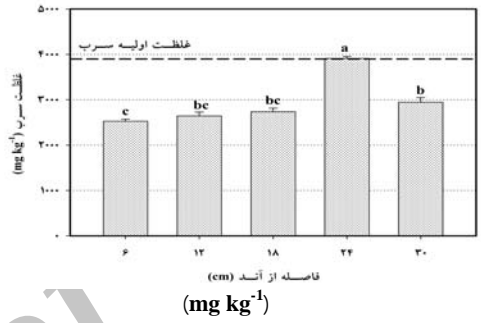


کربن زیت توده میکروبی (mg kg<sup>-1</sup>)

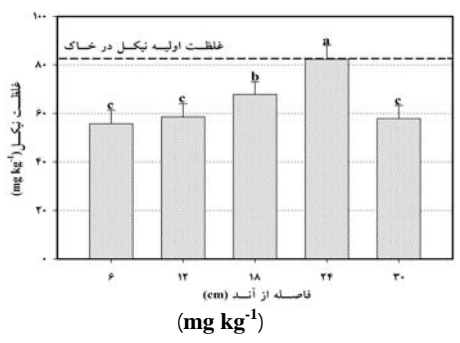
فاصله از آند (cm)



(mg kg<sup>-1</sup>)



(mg kg<sup>-1</sup>)



(mg kg<sup>-1</sup>)

(Acar and Alshwabkeh, 1993)

pH

( )

( )

( )  
 $(C_{mic}/C_{org})$   
pH  
pH (Mikanova, 2006; Shukurova et al., 2006; Vásquez-Murrieta et al., 2006)  
(Lear et al., 2007)  
pH ( $C_{mic}$ )  
pH ( $C_{org}$ )  
(Mikanova, 2006)

CO<sub>2</sub>  
(Khan and Scullion, 2007)  
pH  
pH (Cang et al., 2009; Lear et al., 2004; Lear et al., 2007; Wang et al., 2009)  
pH (Mikanova, 2006; Shukurova et al., 2006; Lear et al., 2007)  
(Brookes, 1995)  
pH (Lear et al., 2004; Lear et al., 2007)

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