

(PAHs)

(:) GIS

Archive of SID

128 - 278

(PAHs)

(PAHs)

(Hi-Vol.)

(GIS)

Arc GIS

GIS

PAHs

GIS

PAHs / ng/m³

PAHs / ng/m³

GIS -PAHs

PAH (PAH_s)

PAH

(Dockery, et al., 1993)

(Alam et al., 2003)

(Caricchia, et al., 1999; Chetwittayachan, et al., 2002)

E-mail: f-halek@merc.ac.ir

: :

GIS (2001)

GIS

(Bae, et al., 2002)

PAHs

(ESRI, 2001)

Arc GIS(8.3)

Spline

Spline , Kriging , IDW

: PAHs

EPA

Acenaphtene , Acenaphtylene Naphthalene

Anthracene Phenantherene Fluorene

Chrysene Benzo[a]anthracene Pyrene Fluoranthene

fluoranthene Benzo[k] Benzo[b]fluoranthene

Dibenzo[a,h]anthracene Benzo[a]pyrene

Indeno[1,2,3-cd]pyrene , Benzo[ghi]perylene

(Matejicek et al., 2006)

(Allen et al., 1996)

:()

PAHs

Gramotnev, et)

PAH %

(al., 2004

Halek)

GIS (et al., 2004

High Volume

/ x /

(Hi-Vol.)

GIS

Longley,)

جغرافیایی

...

(PAHs)

Hughes, et al., 1998; Guo)

°C

(HPLC)

(et al., 2003

HPLC

() 0.45 μm

(Shi, et al., 2001; Gramotnev, et al., 2003)

ft³/min

UV

PAH

(Passanzini, et al., 2004)

PAH

HPLC

PAH

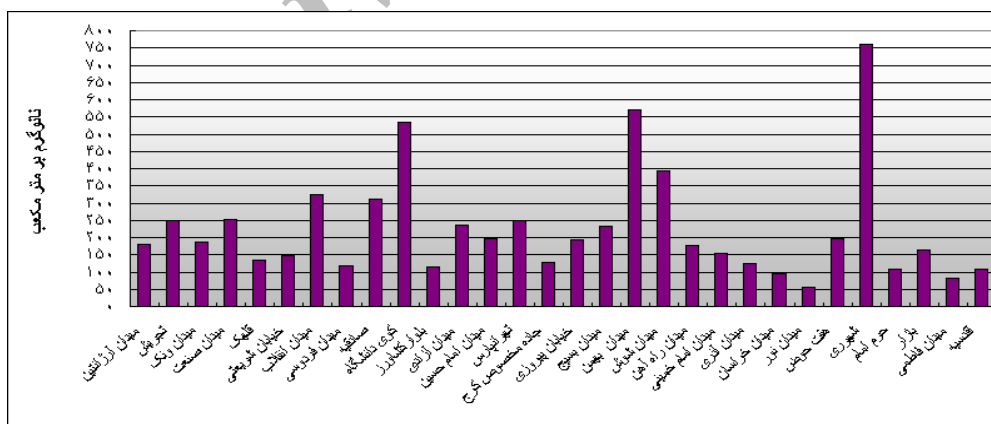
PAH

CC

()

EPA

EPA610



()

(:)

()

/ μg/m³

μg/m³

/ μg/m³

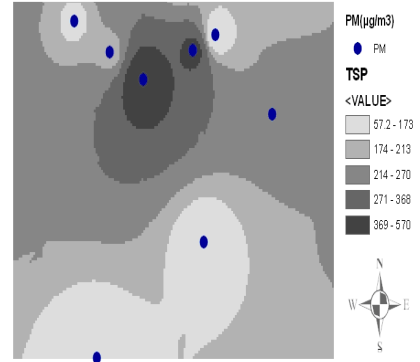
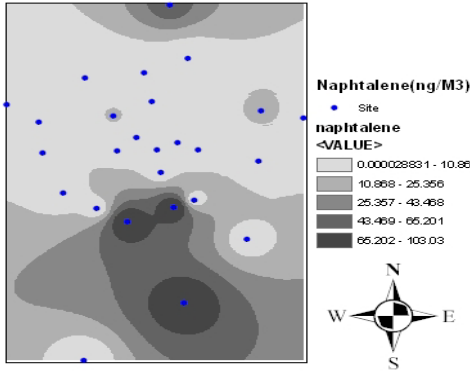
GIS

PAH

/ μg/m³

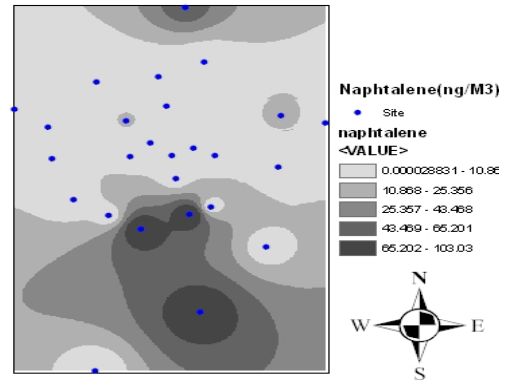
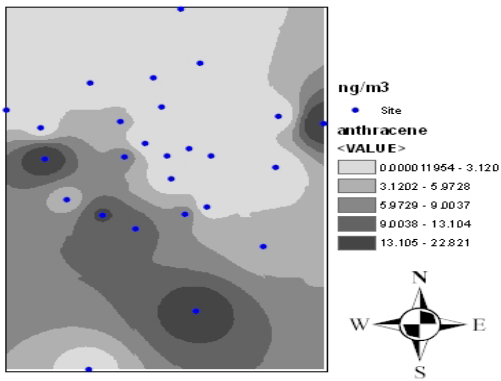
/

() ()



() : ()
 ()
 ng/m³ / ng/m³ . / ng/m³

(PM) : ()
 ()
 / µg/m³ . / µg/m³ /



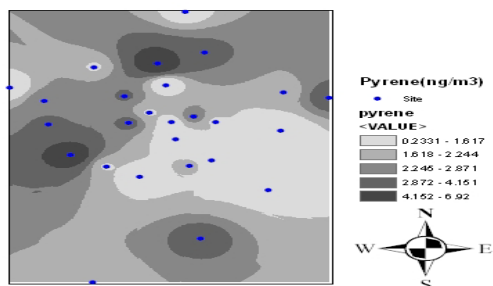
(a) () : ()
 ()
 / ng/m³ . / ng/m³ / ng/m³

PM-10 : ()
 ()
 / ng/m³ . / ng/m³ / ng/m³

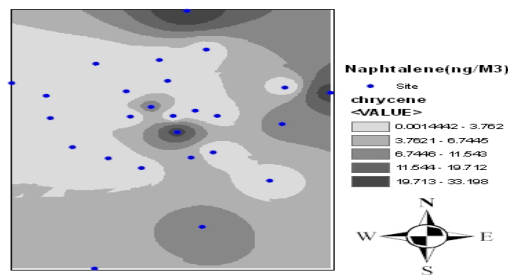
...

(PAHs)

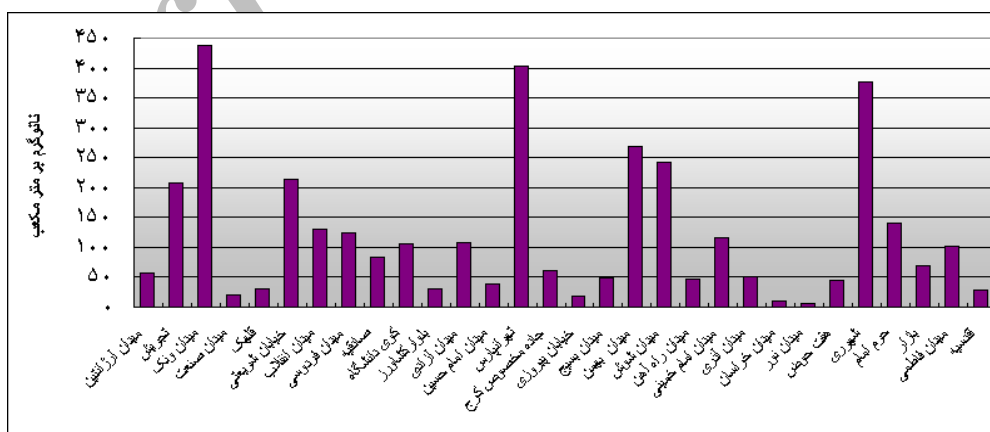
PAH GIS
 () ()
 PAH
 / ng/m³ / ng/m³
 / ng/m³
 PAH /
 Naph (/ ng/m³)
 Acy (/ ng/m³)
 BaA
 Pyr
 (/ ng/m³)



() (a) : ()
 (ghi) ()
 / ng/m³ ()
 / ng/m³



() (ghi) : ()



PAH : ()

1-High Performance Liquid Chromatography

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