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°C Ro % / HI (mg H c/org C) TOC % /

(% /) Ro (/ °C) Tmax Tmax

III II

(%)

III II I

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(Bordenave & Huc, 1995;

.(; Mohseni & Al-Aasm, 2004

) ()
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)

(

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Alla et al.,)

.(1980; after Lee, 1950

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Alla et al.(1980)

Bordenave & Huc Bordenave & Burwood (1990)

(1995)

()

(Suess et al.,1987; Pedersen & Calvert,

.1990; Harris, 2005)

... ()

(
()
()

(Huc, 1988; Pedersen & Calvert, 1990;

.Parrish, 1995; Hay, 1995)

)
(

Bordenave & Huc .

(1995)

(Demaison &

Moore, 1980; Pelet, 1987; Aller, 1994; Hunt, 1995)

Al-Sharhan & Nairn (1995)

(James & wynd,

(; 1965; Mohseni & Al-Aasm, 2004

(Alla et al.,1980; Murriss, 1980;

Bordenave& Burwood, 1990; Ziegler, 2001)

(Haq et

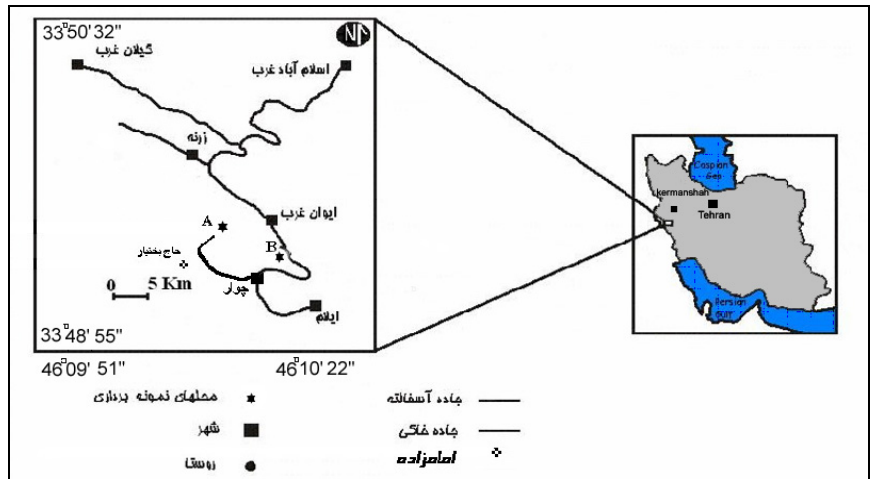
.al., 1988)

(Emery & Mayers,

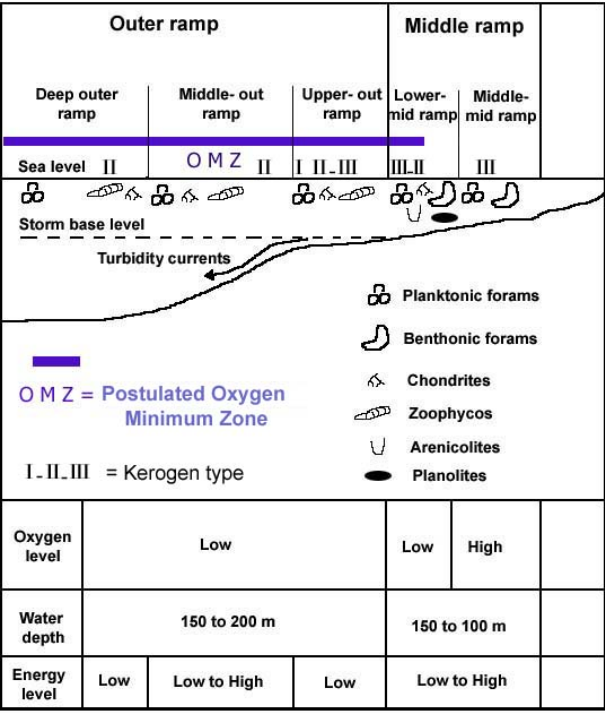
.1996)

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.XRD

Rock-Eval

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ASTM

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Rock-Eval ()

((LOI)

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(Hunt, 1995;

Rock-Eval (

.Curry et al., 1998)

III Rock-Eval

/

XRD

XRD

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(

(Stach,1975)

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(API=)

(Thomas, 2002)

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(Hunt, 1995; Curry et al., 1998;

(Murriss, 1980; Alavi, 1994)

Snowdon & Sykes, 2002)

(%)

(%)

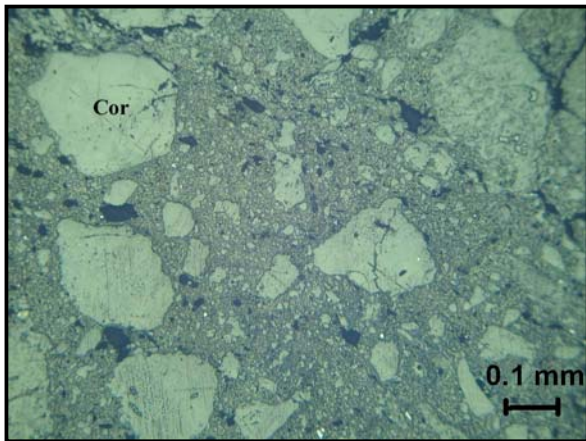
(%)

.()

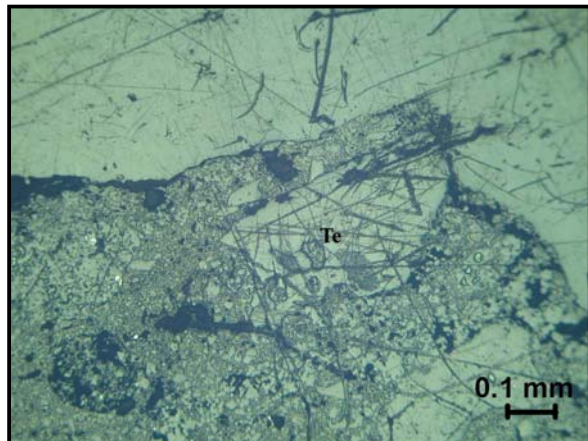
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(Te) ()

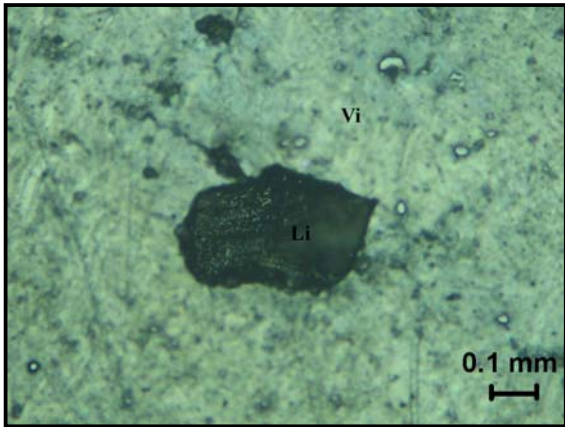
(Thomas, 2002)

(API=)

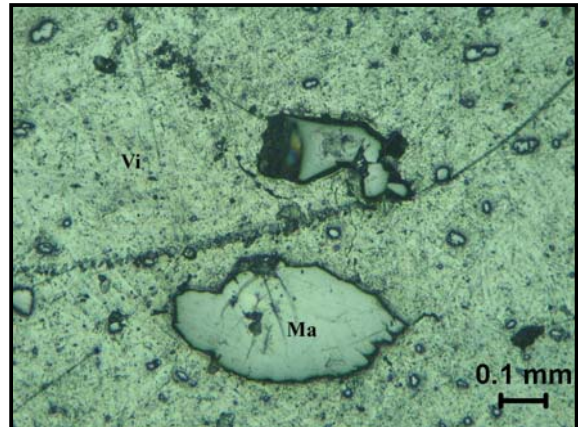
(Hunt, 1995)

(API=)

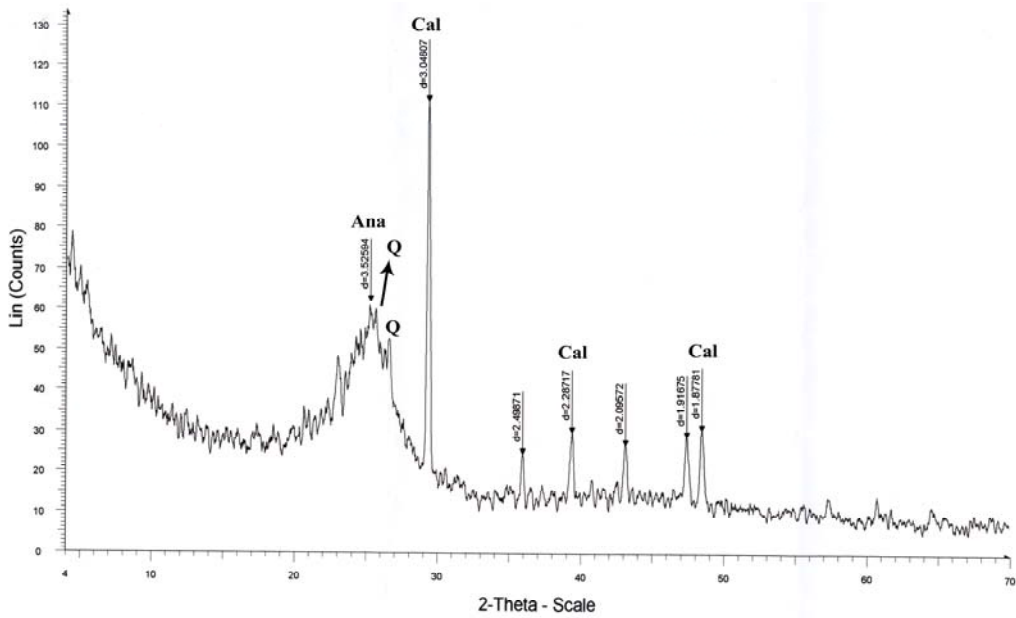
... ()



()



(Ma) ()



XRD ()

=Ana

=Cal

=Q

.(Curry et al., 1998)

Rock-

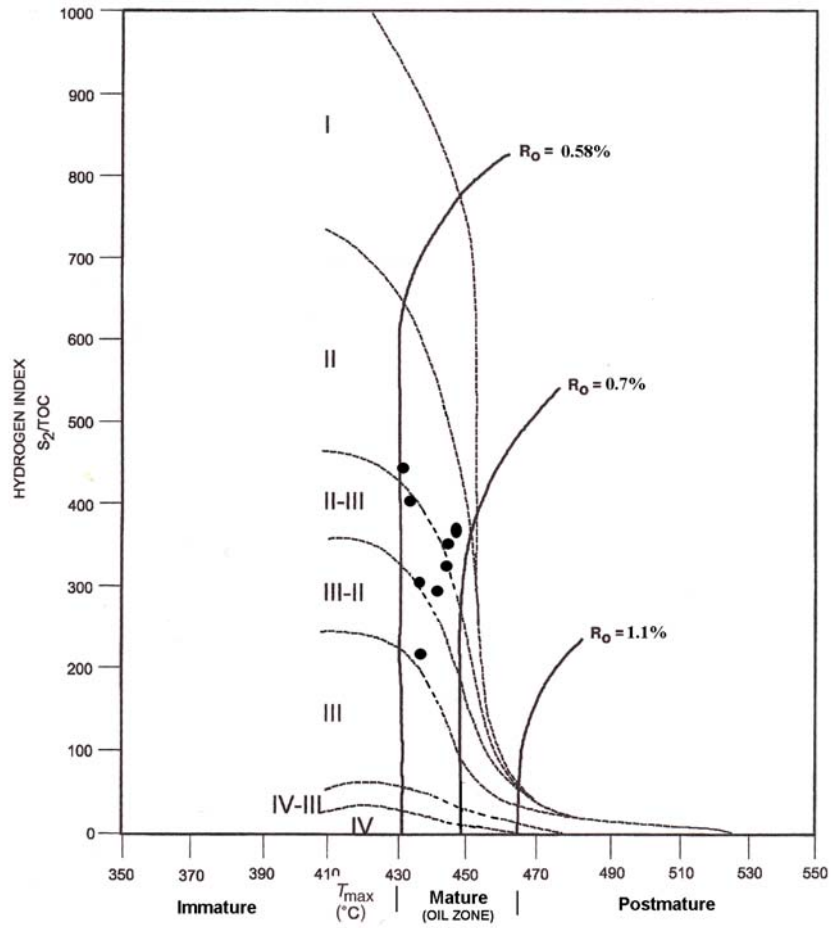
(Curry et

)

Eval

al., 1998)

(



() Tmax HI ()

%

.(Stach, 1975; Snowdon & Sykes, 2002)

()

()

.(Boreham et al., 1999)

... ()

.
% / % /
.()
(% / % /)

.()

Ro (°C) T_{max}
(mg Hc/org C) HI (% / % /)
% /) RO .

.() mg Hc/org C) HI (°C)T_{max} (% /)
(

(Durand &Paratt, 1983; Marquis et al.,
1992; Hunt, 1995; Curry et al., 1998; Snowdon &
T_{max} Sykes, 2002)
()

TOC

HI

% . III II
% II
III II
(/ °C) T_{max}
mg Hc/org) (% /)
(/ C

(Snowdon &

.Sykes, 2002)

(George et

T_{max}

al., 1994; Diessel & Gammidge, 1998)

S₁

(PI= /

S₂

.(Snowdon & Sykes, 2002)

(% %) (% %)
(% / % /)

NMR,

O/C H/C

GC-Mass

.()

(Peters, 1986; Hunt, ()
 .1995; Harris, 2005) (James & Wynd, 1965; Mohseni & Al-
 () T_{max} .(;Aasm, 2004
 % ()

(LOI)
 II II-III
 %)
 % I /) () ()
 % II . (%
 T_{max} II-III)

(mg Hc/org C) HI (/ °C) ()
 HI
 (% /) T_{max}
)
 () ()

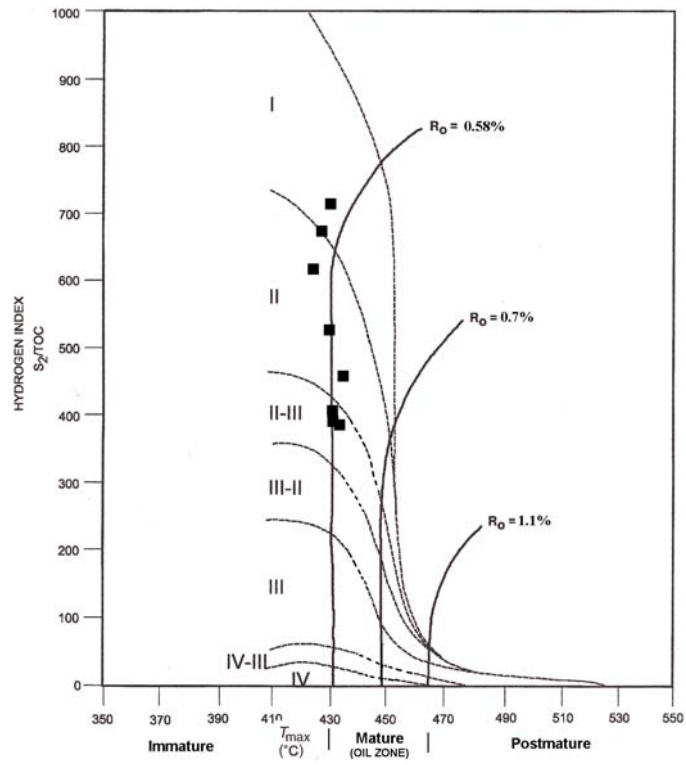
(PI= / /)
 S₂ S₁ % /

() TOC
)

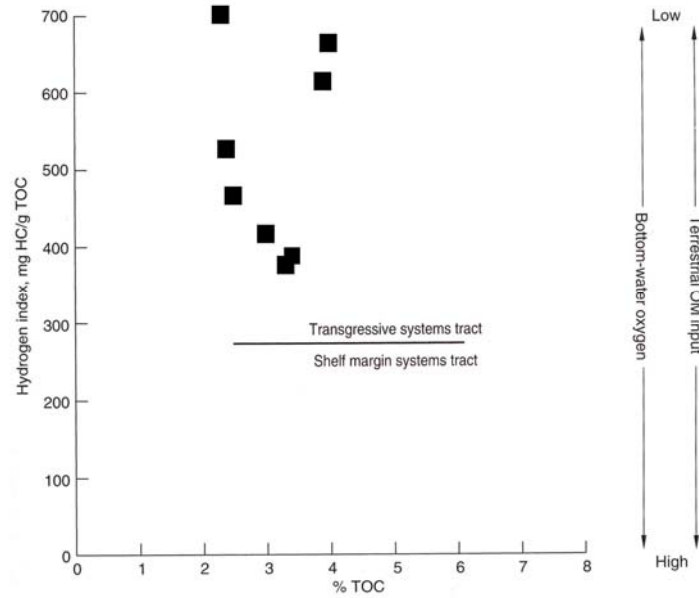
II .() Rock-Eval
 () ()

HI (% /) Ro (°C) T_{max}
 S₂ (> mg Hc/g Rock) S₁ (> mg Hc/org C)
 (> wt %) TOC (> mg Hc/g Rock)

... ()



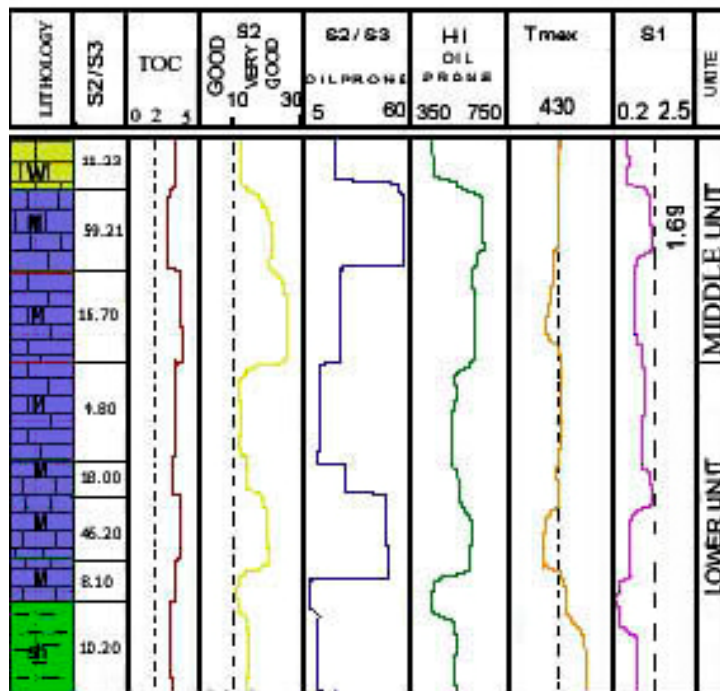
() .Tmax HI ()



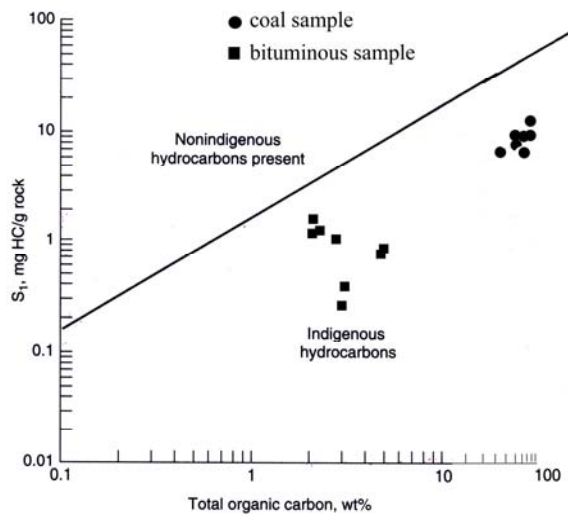
() .TOC HI ()

S_1
) () TOC
 (
 (Haq
 .et al., 1988)
)
 HI ((mg Hc/org C)
 ()
 ()
 ()
 ()
)
 (Alavi, 1994) ((/ / wt%) TOC
 S_2 (%)
 (/ / mg Hc/g Rock)
 mg Hc/g) S_1 (%)
 (/ / Rockock
) (/ mg Hc/g Rock)
 (mg Hc/g Rock) HI (mg Hc/g Rock
 (mg Hc/org C) ((°C) T_{max}
 (/ /) S_2/S_3 (°C)
 () ()
 .()
 (S_1 S_2)

... ()



()



(,) TOC S1 ()

%
 % I
 II III
 %
 T_{max} / /
 mg Hc/org C HI
 °C
 II
 III II
 %
 %
 ()
 ()
 ()
 ()

Ni, Cu, Co, Cd,

Pb, Mn, V, Fe

()

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...()

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