

ABU DHSBI

28/10/2021

CRUD ANNO!!!

□ = 01/01/2010

Sample Δg Reg Kd $p = 1 \times 10^{-8}$ mbar

# 1	[1104 - -6]	$P_0 = 50 \text{ eV}$	$\Delta \delta = 0.5$	$z = 0.3$	Wide
# 3	[382 - 360]	$P_0 = 25 \text{ eV}$	$\Delta \delta = -0.1$	"	Ag 3d
# 4	[300 - 275]	"	"	"	C 1s
# 5	[550 - 520]	"	"	"	O 1s

VPSSettings → Others → 2.2
 $i_e = 2 \times 10^{-9} \text{ A}$

High Magn (1/10)

6 [10 - 23] $P_0 = 5$ $\Delta \delta = 0.05$ $z = 0.2$ VB# 7 [10 - 33] " " " $V_{PR} = -10 \text{ V}$ Cutoff

En, T → Magn

Settings Other → 2.2

Low Magn

□ = 02/01/2010

1 [10 - 33] $P_0 = 5$ $\Delta \delta = 0.05$ $z = 0.2$ $V_{PR} = -10 \text{ V}$ Cutoff

3 [10 - 23] " " " VB

High Magnification

4 [10 - 33] $P_0 = 5$ $\Delta \delta = 0.05$ $z = 0.2$ $V_{PR} = +10 \text{ V}$ Cutoff

02/11/2021

Sample Au

XPS

Reg Ka

15 kW, 18 mA

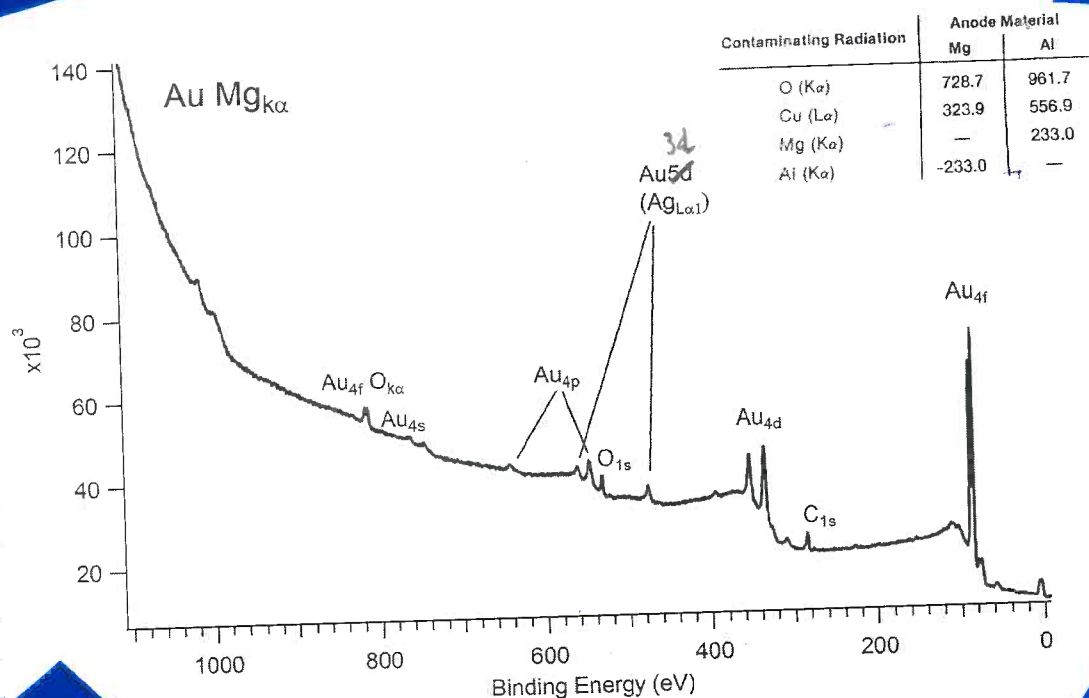
$p = 3 \times 10^{-9}$ mbar

$\square = 02/01/2010$

(00:23)

$I_{Fik} = 4.86 \text{ A}$
 $V_{Fik} = 4.77 \text{ V}$ } 23.2 W

1 [104 - 166] $P_0 = 50 \text{ eV}$ $\Delta E = -0.5$ $Z = 0.3$ W. Le
3 [54 - 74] $P_0 = 25 \text{ eV}$ $\Delta E = -0.01$ $Z = 0.3$ Au f
5 [98 - 24] $P_0 = 25 \text{ eV}$ $\Delta E = -0.01$ $Z = 0.3$ Au f
7 [285 - 275] " " " C 1s
9 [580 - 520] " " " O 1s



$\Delta E_{C1s} = 2984.31 \text{ eV}$ 2988 3150 = ΔE_{Au4f}
 $\Delta E_{Au4f} = 2206$ 2291 2743

$2291 + 122 = 2413$

137

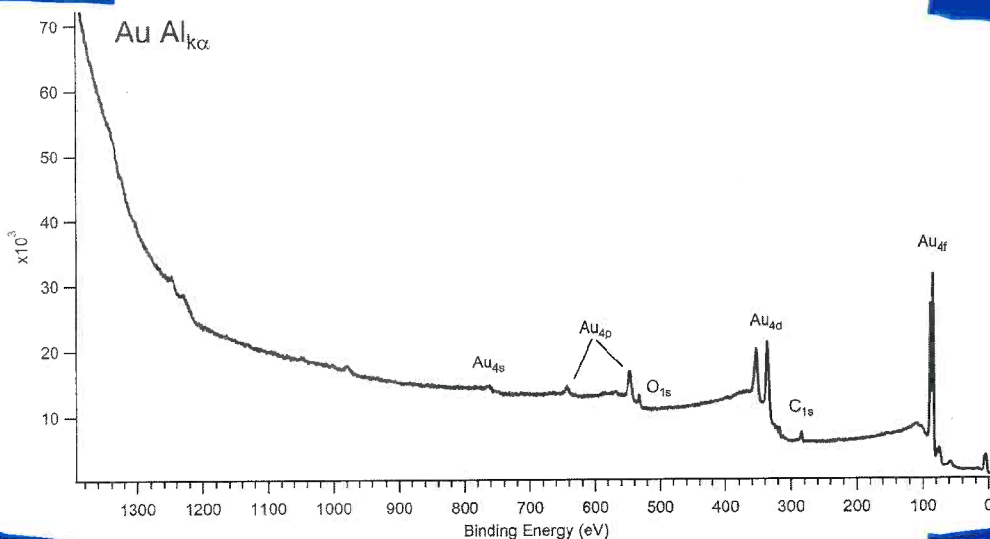
XPS

AP K_α

15 kV 18 mA

$$\left\{ \begin{array}{l} I_{\text{fil}} = 4.32 \text{ A} \\ V_{\text{fil}} = 4.36 \text{ V} \end{array} \right.$$

10 [1383 - -6] P₀ = 50 eV Δ₀ = -0.5 eV 2:01 Wide



UPS

$$\phi = 21.2 \text{ eV}$$

$$I_k = 3 \times 10^{-8} \text{ A}$$

# 11	[10-23]	P ₀ = 5	Δ ₀ = 0.05	High	VB	
# 12	[10-23]	"	"	Low	VB	
# 13	[10-33]	"	"	High	V _{pl} = -10V	Cu ²⁺ off
# 14	[10-33]	"	"	Low	V _{pl} = -10V	Cu ²⁺ off
# 15	[10-33]	"	"	High	"	"

(no spikes)

03/11/2021

Sample: MLi Test Sample 1 (Calc Au)XPS Tg Ka SKV 18ml

☒ = 03/01/2010 (23:15)

$$\left\{ \begin{array}{l} I_{FIL} = 4.84 \text{ A} \\ V_{FIL} = 4.75 \text{ V} \end{array} \right.$$

# 1	[1104 - 6]	PE=50 eV	$\Delta E = -0.5 \text{ eV}$	$\tau = 0.3 \text{ s}$	Wide
# 2	[460 - 435]	PE=25 eV	$\Delta E = -0.1 \text{ eV}$	"	In 3d
# 4	[503 - 475]	"	"	"	Sn 3d
# 5	[295 - 275]	"	"	"	C 1s
# 6	[540 - 520]	"	"	"	O 1s

UPS

$$p = 4 \times 10^{-8} \text{ cm}^2$$

$$I_k = 3 \times 10^{-9} \text{ A}$$

# 7	[10 - 23]	PE=5	$\Delta E = 0.05$	High	VB
# 8	[10 - 23]	"	"	Low	VB
# 9	[10 - 33]	"	"	High	$V_{pd} = -10 \text{ V}$ Cut-off
# 10	[10 - 33]	"	"	Low	$V_{pd} = -10 \text{ V}$ Cut-off

Sample Ti RodXPS π gica 15keV 18um

☑ = 08/01/2010

1 [1104 - -6] $P_0 = 50$ $\Delta\delta = 0.5$ $Z = 0.3$ W, LeSputtering

2KV 25um

 $I_{ex} = 1.5 \mu A$ $p = 1.2 \times 10^{-5}$ mbar Δr^+ $b = 25^\circ$ XPS π gica 15keV 18um
$$\begin{cases} I_{FIL} = 4.87 \text{ A} \\ V_{FIL} = 4.84 \end{cases}$$

# 2	[1104 - -6]	$P_0 = 50$	$\Delta\delta = 0.5$	$Z = 0.3$	W, Le
# 3	[472 - 450]	$P_0 = 25$	$\Delta\delta = -0.1$	"	Ti 2p
# 4	[300 - 285]	"	"	"	C 1s
# 5	[540 - 520]	"	"	"	O 1s
# 6	[360 - 340]	"	"	"	Fe 2p
# 7	[112 - 90]	"	"	"	Si 2p
# 8	[410 - 390]	"	"	"	N 1s ?

# 9	[10 - 33]	$P_0 = 5$	$\Delta\delta = -0.05$	$Z = 0.2$	$V_{p0} = -10V$	V_{B+} cut off
					High	

# 10	[10 - 33]	"	"	"	$V_{p0} = -10V$	V_{B+} cut off
					Low	

 π gica 15keV 8um

# 12	[10 - 33]	$P_0 = 5$	$\Delta\delta = -0.05$	$Z = 0.2$	$V_{p0} = -10V$	cut off V_B
					Low	

9/11/2011

Sample Lunco Simulant LHS-1 powder

☐ = 13/01/2010

Fig ka 18 mA 15 kW

$I_{FIL} = 4.82 \text{ A}$
 $V_{FIL} = 4.69 \text{ V}$

# 1	[1104 - -6]	$P_0 = 50$	$\Delta \delta = -0.5$	$z = 0.3$	Wide
# 2	[452 - 452]	$P_0 = 25$	$\Delta \delta = -0.1$	"	Trip
# 5	[370 - 345]	"	"	"	Co zp
# 6	[100 - 95]	"	"	"	Si zp
# 7	[305 - 275]	"	"	"	Cis
# 10	[550 - 525]	"	"	"	Ois
# 11	[95 - 70]	"	"	"	Al zp

Auto off eV B

Fig ka 15 kW 8 mA

# 12	[10-33]	$P_0 = 5$	$\Delta \delta = 0.05$	$z = 0.2$	High $V_{pl} = -10V$
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Fig ka 15 kW 5 mA

# 14	[10-33]	$P_0 = 5$	$\Delta \delta = 0.05$	"	High $V_{pl} = -10V$
# 15	[10-33]	"	"	"	Low $V_{pl} = -10V$

Sample HCL Test sample 2 (no iis) (Palo dorato)

XPS

H_gK α 15kW, Bunk

E = 16/01/2010

1 [104- -6] $\Delta\delta = -0.5$ $P\delta = 50$ $Z = 0.3$ Wide
 (e shift) C, O, N, Si (poco poco), Ca (poco)

2 [420-395] $\Delta\delta = -0.4$ $P\delta = 25$ $Z = 0.3$ N1s

4 [302-278] " " " C1s

7 [550-530] " " " O1s

10 [565-545] " " " Ca 2p

12 [117-102] " " " Si 2p

H_gK α 15kW, S und

$$\begin{cases} I_{FIL} = 4.30 \text{ A} \\ V_{FIL} = 4.30 \text{ V} \end{cases}$$

13 [550-530] $P\delta = 25$ $\Delta\delta = 0.1$ $Z = 0.3$ O1s (per confronto)

14 [10-33] $P\delta = 5$ $\Delta\delta = 0.05$ $Z = 0.2$ High $V_{p\delta} = -10V$ C1s

15 [10-33] " " " Low " C1s

16 [302-278] $P\delta = 25$ $\Delta\delta = -0.1$ $Z = 0.3$ C1s