

Supplementary Material

Table S1. Averaged Trace element content for the xylite-rich and matrix lignite deposits of the Almyros basin [11,30]) and the Lavas-Servion basin [29].

Region mg/kg	Almyros Basin		Lavas-Servion Basin		
	Xylite-rich	Matrix	Upper Lignite	Interm. Lignite	Lower Lignite
As	22.60	27.60	3.40	11.50	13.00
Cd	-	0.40	0.60	0.80	0.90
Ga	7.80	8.10	2.50	5.90	4.60
Ge	4.80	3.20	0.10	0.70	0.50
Ni	49.90	23.40	9.70	46.30	24.00
Cr	57.20	136.00	22.60	52.40	34.40
V	60.40	134.00	30.40	95.10	91.50
Cu	7.90	10.10	11.10	21.30	25.60
Co	5.40	3.80	3.90	6.30	5.00
Pb	1.80	3.40	3.50	7.90	6.00
Zn	17.00	10.40	60.80	88.50	56.90
Ba	156.50	123.20	46.90	101.80	94.70
Rb	6.40	8.60	4.30	16.30	13.50
Sr	142.80	194.20	4.30	16.30	13.50
U	17.40	26.80	1.90	5.20	8.90
Th	0.80	1.30	2.00	4.40	4.20
Nb	1.30	2.00	4.00	3.80	2.80
Ta	0.00	1.20	1.80	0.10	0.20
Zr	8.80	12.10	22.70	29.80	19.60
Y	2.00	3.90	2.60	10.10	8.30

Table S2. Averaged Rare Earth Element (REE) content (ppm) for the xylite-rich and matrix lignite deposits of the Almyros basin [1,2] and the Lavas-Servion basin [3].

Region	Almyros Basin		Lavas-Servion Basin		
mg/kg	Xylite-rich	Matrix	Upper Lignite	Interm. Lignite	Lower Lignite
La	2.30	4.80	3.20	8.80	6.40
Ce	4.50	9.50	8.10	23.30	18.70
Pr	0.50	1.10	1.00	2.50	2.10
Nd	2.20	4.50	3.20	8.20	7.10
Sm	0.40	0.90	0.60	2.00	1.60
Eu	0.10	0.20	0.10	0.40	0.40
Tb	0.05	0.10	0.10	0.40	0.30
Dy	0.40	0.80	0.50	1.70	1.50
Ho	0.05	0.10	0.10	0.40	0.30
Er	0.20	0.40	0.20	1.00	0.80
Tm	0.01	0.05	-	-	-
Yb	0.20	0.40	0.20	1.00	0.80
Lu	0.01	0.05	-	-	-