

Table S1. Bulk geochemical analyses of major, trace and rare earth elements of analyzed samples from Gerakario. b.d.l. = below detection limit; n.a. = not analyzed.

	Two-mica gneiss				
	Sericitic alteration				
	Quartz-stibnite veins				
	Ger 3.1		Ger 05		
Major elements (wt.%)					
Al	0.04				0.01
Ca	0.33				0.46
Fe	0.36				0.2
K	0.02				b.d.l.
Mg	b.d.l.				b.d.l.
Na	0.02				0.03
S	16				19
Ti	b.d.l.				b.d.l.
Ger 3.1		Ger 05		Ger 3.1	Ger 05
Trace elements (ppm)					
Ag	0.98	1.2	Pb	22	20
As	6.2	4.6	Pr	b.d.l.	b.d.l.
Au	0.05	0.04	Rb	0.9	0.4
B	12	28	Re	b.d.l.	b.d.l.
Ba	b.d.l.	b.d.l.	Sb	326,000	574,000
Be	b.d.l.	b.d.l.	Sc	b.d.l.	b.d.l.
Bi	0.02	0.03	Se	b.d.l.	b.d.l.
Cd	0.05	0.04	Sm	b.d.l.	b.d.l.
Ce	0.09	0.12	Sn	0.5	0.6
Co	1.8	0.9	Sr	17	22
Cr	202	97	Ta	b.d.l.	b.d.l.
Cs	0.15	0.18	Tb	b.d.l.	b.d.l.
Cu	27	31	Te	b.d.l.	b.d.l.
Dy	b.d.l.	b.d.l.	Th	b.d.l.	b.d.l.
Er	b.d.l.	b.d.l.	Ti	b.d.l.	b.d.l.
Eu	b.d.l.	b.d.l.	Tl	0.81	0.86
Ga	0.16	0.07	Tm	b.d.l.	b.d.l.
Gd	b.d.l.	b.d.l.	U	0.09	0.13
Ge	b.d.l.	b.d.l.	V	b.d.l.	b.d.l.
Hf	b.d.l.	b.d.l.	W	b.d.l.	b.d.l.
Hg	b.d.l.	b.d.l.	Y	0.16	0.13
Ho	b.d.l.	b.d.l.	Yb	b.d.l.	b.d.l.
In	b.d.l.	b.d.l.	Zn	6	b.d.l.
La	0.4	0.4	Zr	b.d.l.	b.d.l.
Li	0.1	b.d.l.			
Lu	b.d.l.	b.d.l.			
Mn	33	20			
Mo	0.12	0.09			
Nb	b.d.l.	b.d.l.			
Nd	b.d.l.	b.d.l.			
Ni	5.9	3.6			
P	12	14			
Pb	22	20			
Pr	b.d.l.	b.d.l.			

Table S2. The average values of the SEM-EDS analyses conducted on stibnite and arsenopyrite from Gerakario. AVG = average value, b.d.l. = below detection limit, MAX = maximum value, MIN = minimum value, n. = number of analyses, n.a. = not applicable, STDEV = standard deviation.

Hydrothermal alteration	Sericitic			
Host rock	Two-mica gneiss			
Mineralization style	Stb1; Vein (n = 33)			
Element	MIN	MAX	STDEV	AVG
S	28.02	29.20	0.52	28.53
V	b.d.l.	b.d.l.	n.a.	n.a.
Fe	b.d.l.	0.18	0.08	0.11
Co	b.d.l.	b.d.l.	n.a.	n.a.
Ni	b.d.l.	b.d.l.	n.a.	n.a.
Cu	b.d.l.	0.20	0.09	0.13
Zn	b.d.l.	0.13	0.06	0.05
As	b.d.l.	0.23	0.10	0.12
Ag	0.08	1.33	0.57	0.50
Te	b.d.l.	b.d.l.	n.a.	n.a.
Sb	69.47	71.08	0.75	70.56
Total	97.57	102.36	2.17	100

Table S3. The full list of the LA-ICP-MS data acquired from the analyzed stibnite from Gerakario. b.d.l. = below detection limit, n. = number of analyses, n.a. = not applicable.

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Table S4. Heatmap of Pearson's correlation coefficients of selected critical and rare metals detected in stibnite from Gerakario after LA-ICP-MS analyses.

