

Figure S1. The temperature dependence of field-cooled (FC) and zero-field-cooled (ZFC) dc susceptibility of assynthesized Yb123 powder.





(b)

Figure S2. DTA results for pure Y123 powder, Y123+ 50 wt% Ag powder, and pure Ag powder (a) under Ar and (b) under O_2 .





(b)

Figure S3. DTA results for pure Er123 powder, Er123+ 50 wt% Ag powder, and pure Ag powder (a) under Ar and (b) under O₂.



Figure S4. XRD results for Ag-sheathed Yb123 samples after melting with different times and temperatures.

Sample		Phase fractions (%)		
Figure	Curve	Yb123	Yb211	BaCuO ₂
1(b)	As-synthesized	96	3	1
	930Ar	0	65	35
	930Ar-9200 ₂ -24h	93	4	3
2(b)	As-synthesized	96	3	1
	930Ar	0	78	22
	930Ar-9200 ₂ -24h	36	38	26
6(a)	N/A	65	19	16
7(b)	910/24h	68	18	14
	940/2h	67	15	18
8(b)	925/48h	22	43	35
	920/48h	42	31	27
	915/48h	61	23	16
	910/48h	66	20	14
	910/96h	68	18	14

Table S1 Quantitative measure of the phases determined from the x-ray patterns using JADE software.

Table S2 Melt temperatures for Yb123, Y123 and Er123 with and without Ag under different atmospheres.

Comple	Melt temperature (°C)		
Sample	Oxygen	Argon	
Ag	938	961	
Yb123	976	922	
Yb123/Ag tape	927	904	
Yb123+50wt% Ag	931	905	
Y123	1040	941	
Y123+50wt% Ag	988	926	
Er123	983	935	
Er123+50wt% Ag	942	914	