Table S1. Comparison of infrared reflectance properties of different coating systems

Sample/System	Matrix	Reflective wavelength range	Reflectance
TiO_2 coating	ZrO_2 fiber	2.5–3 μm	<95%
Potassium hexatitanate coating	Corundum plate	2.5–3 μm	<80%
TiO_2 coating	Flexible alumina fiber fabric	2.5–3 μm	<60%
		3–14μm	<60%
ZrO_2/SiC_w coating		2.5–3 μm	<40%
		3–14μm	<40%
This work(TiO_2 whiskers coating)	Mullite fiber	2.5–3 μm	97%
		3–14μm	94%
This work($TiO_2/K_2Ti_6O_{13}$ dual whiskers coating)		2.5–3 μm	97%
		3–14μm	95%