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Abstract		Supplemental Material References		
Leidenfrost puddles exhibit erratic bubble bursts that release vapor trapped beneath the liquid, becoming amorpl unstable. We report a method to stabilize and design a Leidenfrost puddle. When a thin hydrophilic layer with a su placed over the liquid, the puddle adopts the layer shape due to adhesive forces and becomes stable. We show a designs with the required layer dimensions to avoid vapor accumulation, as well as wetting and buoyancy conditi layer, the puddle evaporation rate increases significantly and can be modified by varying the layer dimensions. Fin illustrative use of this method in a cooling process is presented.	nous and iitable design is variety of puddle ons. With the ally, an			

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