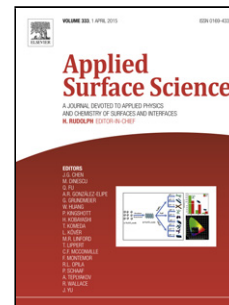


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Title: Ferrites based infrared radiation coatings with high emissivity and high thermal shock resistance and their application on energy-saving kettle

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1 Highlights

2 ● The ferrites based infrared radiation coating was prepared by HVOF for the first
3 time;

4 ● The infrared radiation coatings were applied firstly on the household kettle;

5 ● The bonding strength between the coating and substrate could reach 30.7 MPa;

6 ● The coating kept intact when cycle reached 27 by quenching from 1000 °C
7 using water;

8 ● The energy-saving efficiency of the kettle with coating could reach 30.5%.

9

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