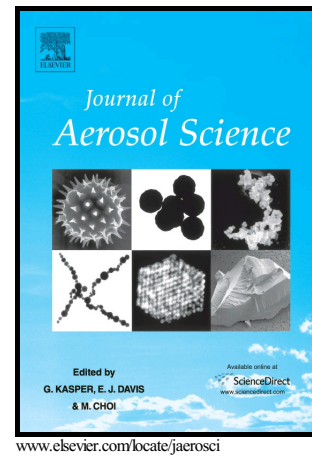


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An experimental study of fly ash particle oblique impact with stainless surfaces

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**An experimental study of fly ash particle oblique impact with stainless surfaces****Jun Xie, Ming Dong\*, Sufen Li, Yaokui Mei and Yan Shang**

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**ABSTRAC**

The oblique impact of fly ash onto stainless surfaces at room temperature is experimentally investigated. The effects of both incident velocity and incident angle on the rebound characteristics are reported. Based on the developed classical rigid body theory, the critical incident angle between gross sliding and no-sliding is  $60^\circ$ . Then the coefficient of dynamic friction between fly ash and stainless surface in present experiments is determined to be 0.6. Based on this parameter, the fitted expressions of tangential restitution coefficient, dimensionless

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