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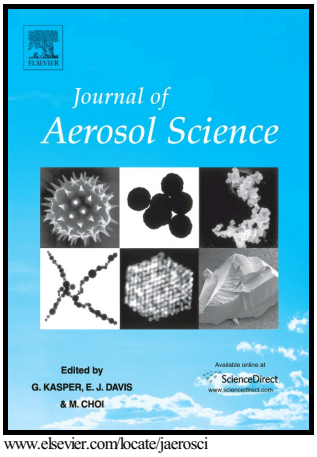

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ABSTRAC

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°. 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