

Surface-Impact Collisions between Endohedral Fullerene Complexes and Graphene and Graphite

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Endohedral fullerene complexes provide a means for obtaining increased localized energy deposition when a fullerene collides with a surface at a specified incident velocity. We have performed classical molecular simulations of collisions between endohedral fullerenes He, Ne, Ar, Kr, and Xe@C₆₀ and sheets of graphene. We examine the fragmentation distribution of the graphene layers as well as the respective fullerene complexes.