Structures and the Electronic Properties of $Au_{19}X$ Clusters (X=Li, Na, K, Rb, Cs, Cu, Ag)

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Table S1. The binding energy per atom (BE) of cage-like $Au_{19}X$ cluster (X = K, Rb, Cs, and Ag) with endohedral doping.

System	Symmetry	BE (eV)
$Au_{19}K$_C1	No Symmetry	2.307
$Au_{19}K$_C2	C(S)	2.290
$Au_{19}Rb$_C1	C(6V)	2.289
$Au_{19}Rb$_C2	C(2V)	2.272
$Au_{19}Cs$_C1	No Symmetry	2.309
$Au_{19}Cs$_C2	C(6V)	2.294
$Au_{19}Ag$_C1	C(3V)	2.311
$Au_{19}Ag$_C2	C(S)	2.303