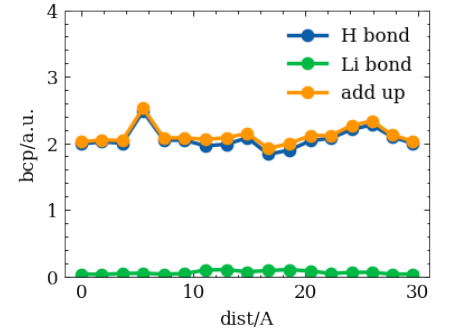
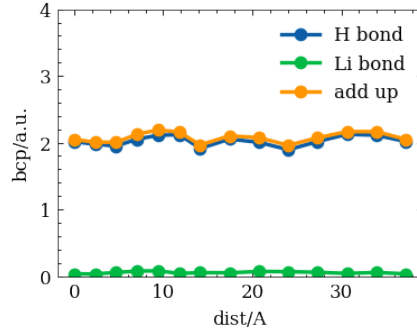
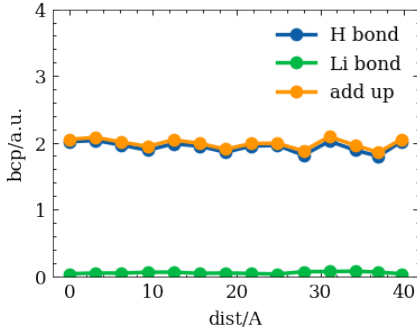
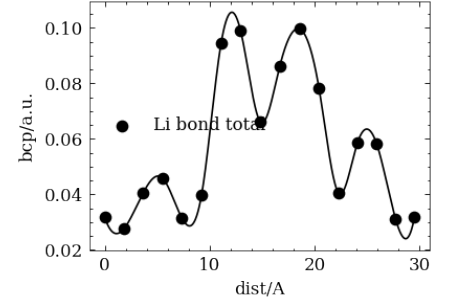
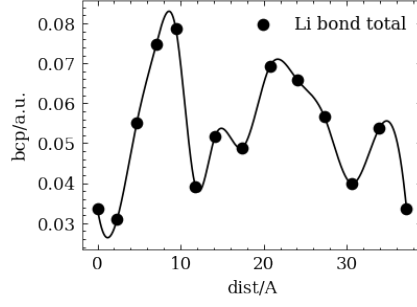
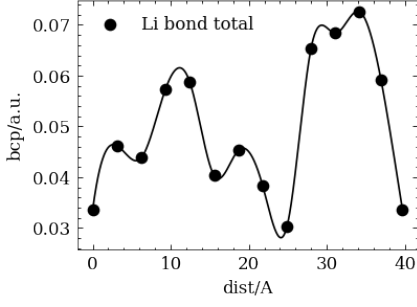
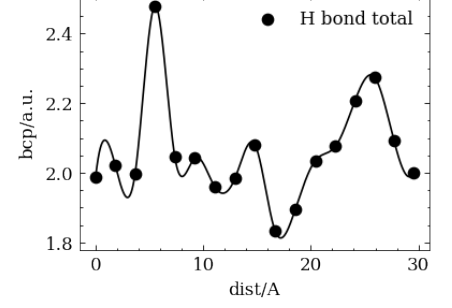
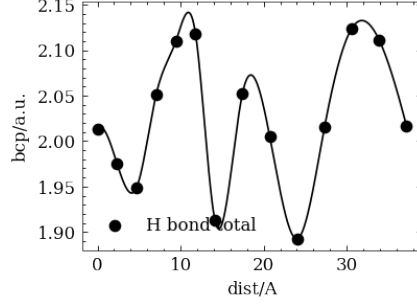
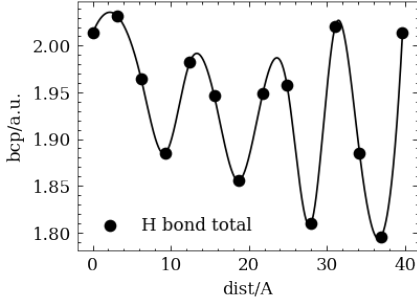
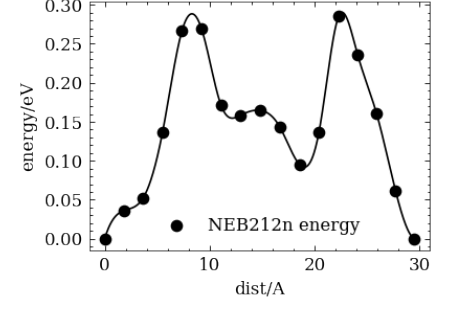
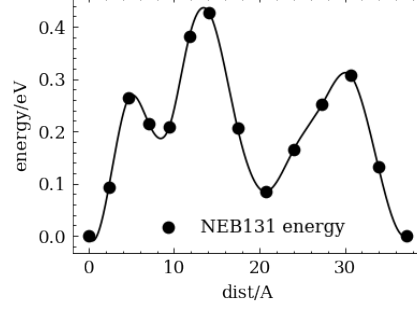
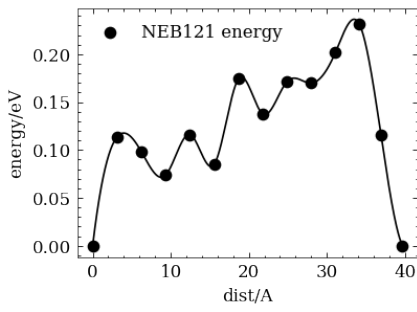


图 1: MASnCl₃ NEB

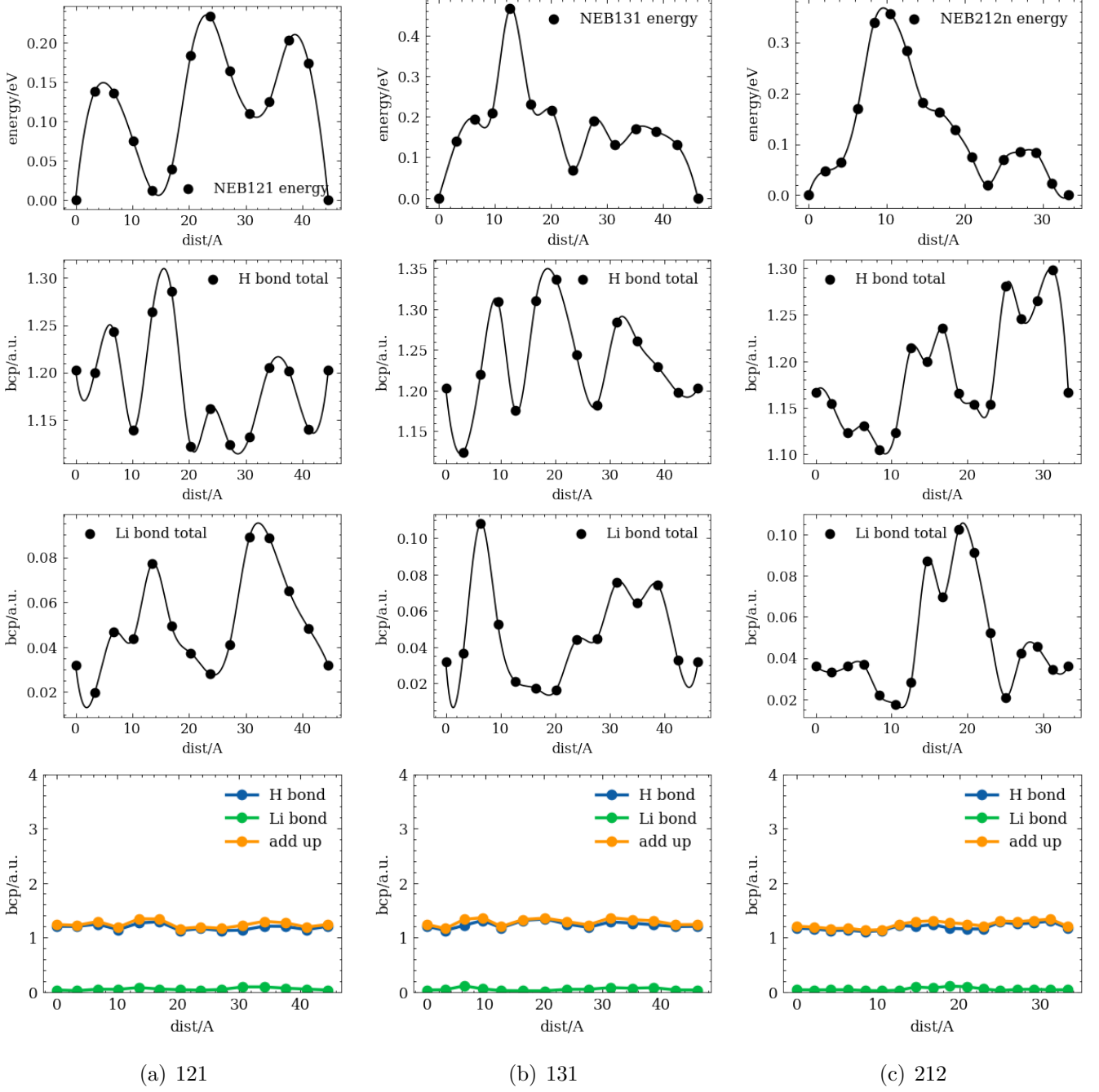


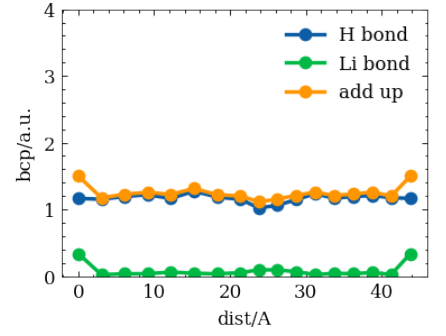
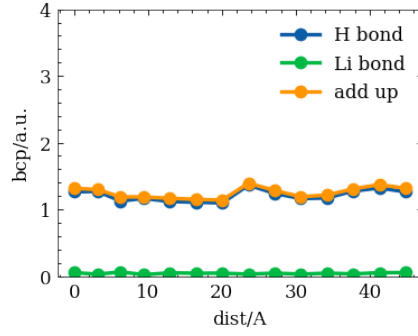
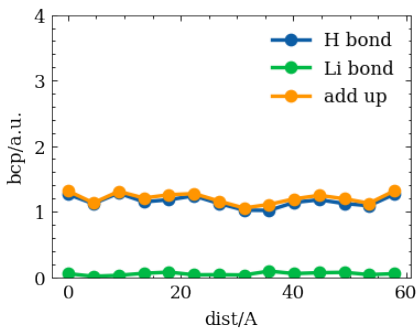
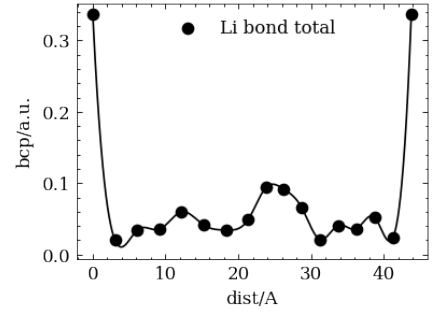
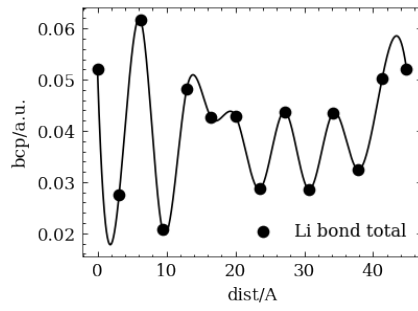
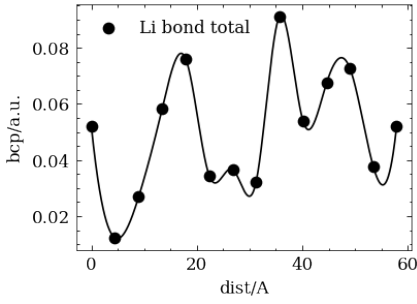
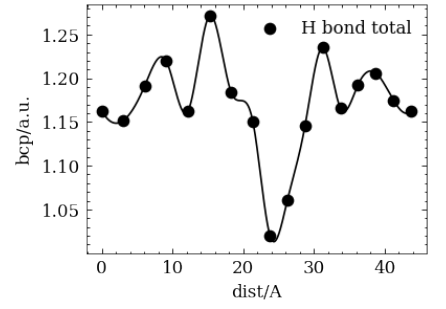
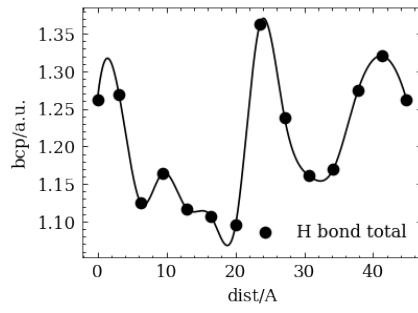
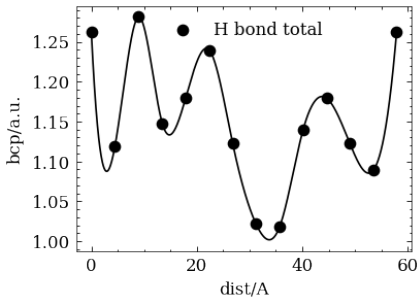
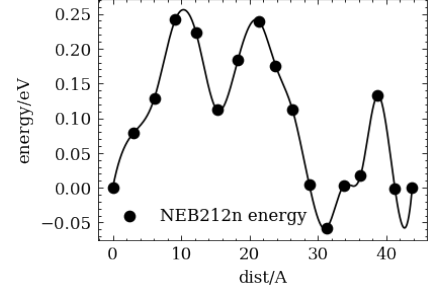
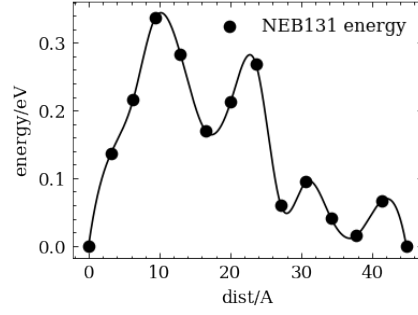
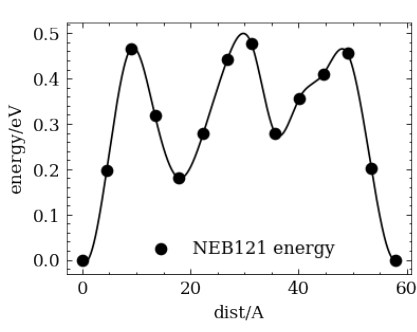
(a) 121

(b) 131

(c) 212

图 2: MASnBr_3 NEB

图 3: MASnI_3 NEB



(a) 121

(b) 131

(c) 212

图 4: MAPbBr₃ NEB