Each point of extension is a new separate vertex?
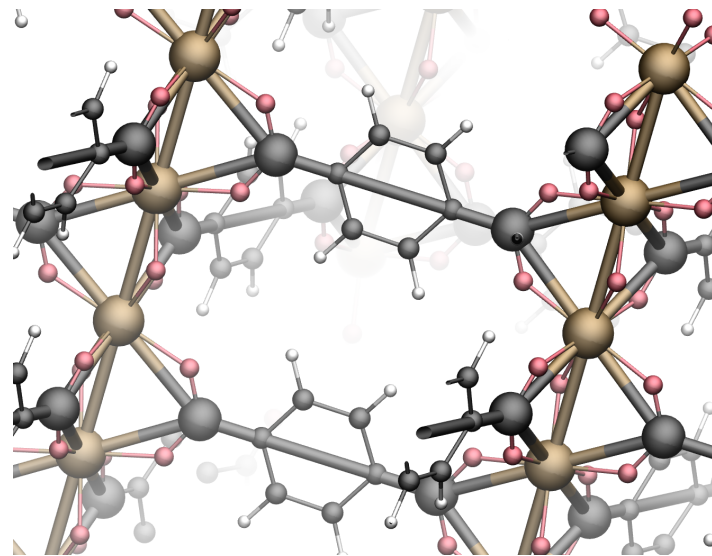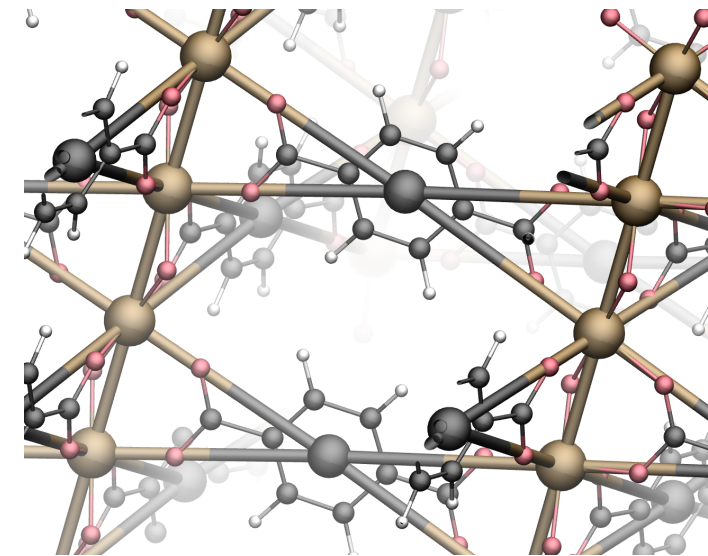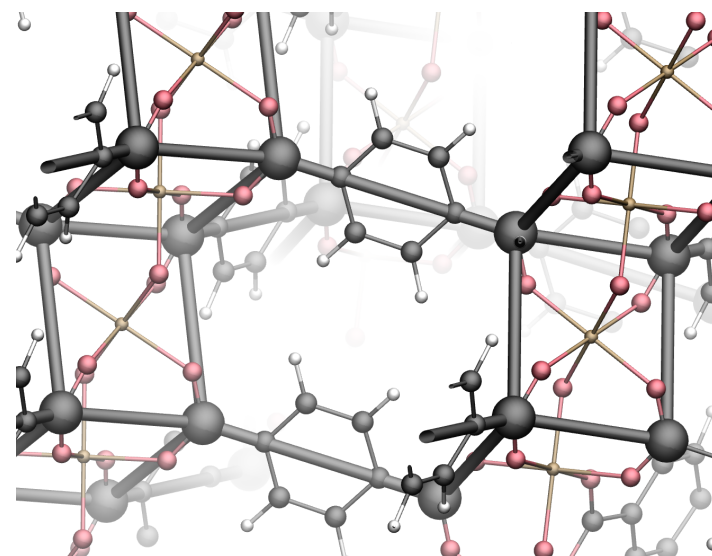
YES   NO

Keep metallic nodes?
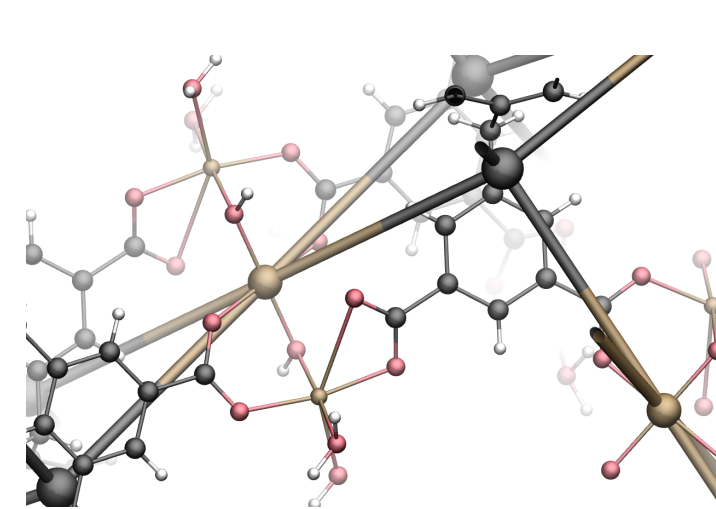
Group adjacent metal atoms?

NO

YES

YES   NO

PE*
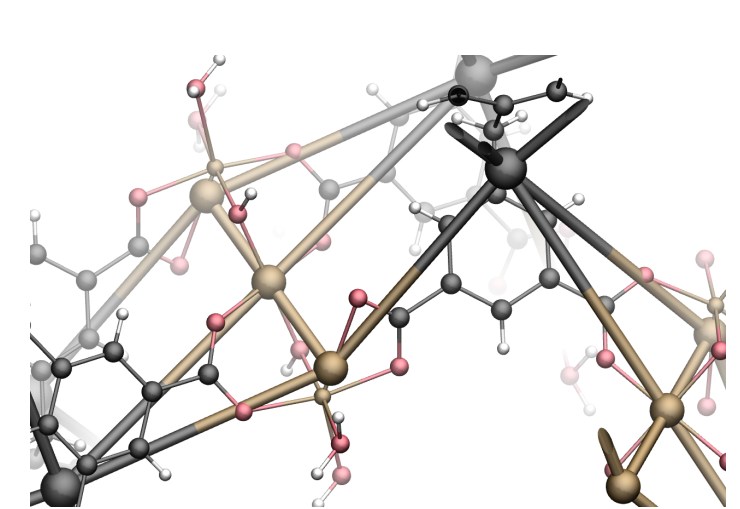
Single Node ← → *Standard*
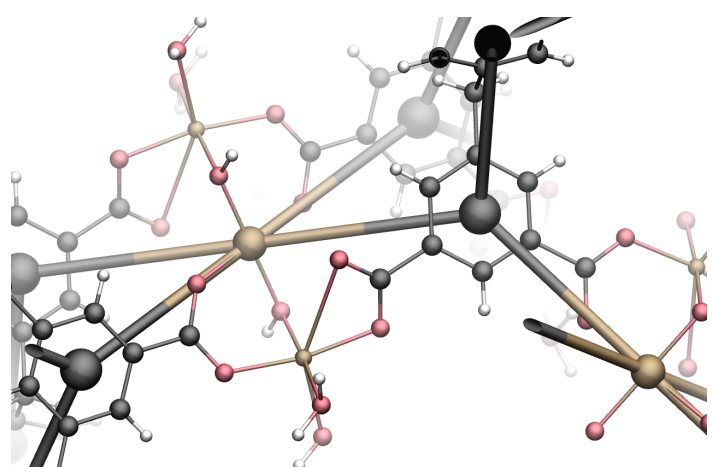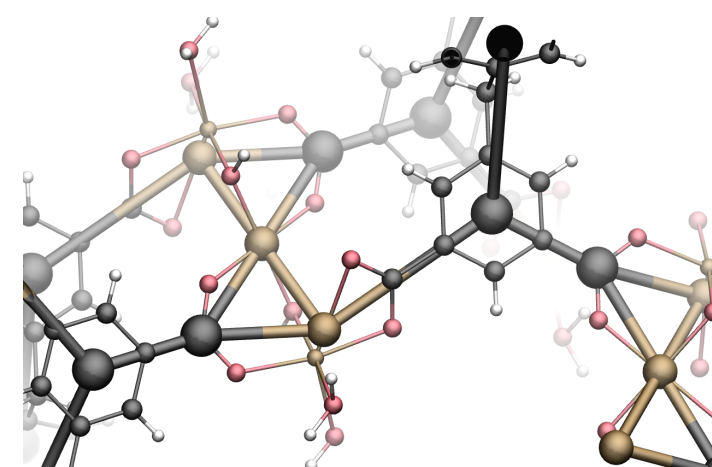
Group adjacent metal atoms?

YES   NO

Additional rules:
- any vertex with no neighbor is removed.
- any vertex with exactly two neighbors is replaced by an edge.

Apply iteratively until convergence.

All Nodes ← → *PE&M**

*PE: "Points of Extension"

*PE&M: "Points of Extension and Metals"