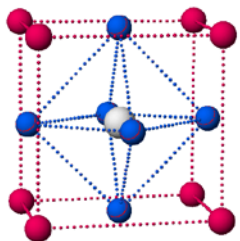


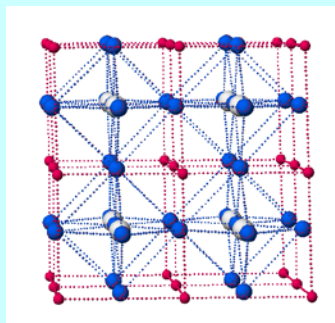
Hybrid Perovskite Materials



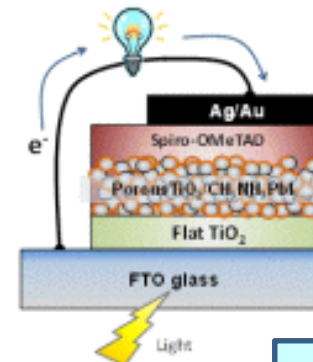
Perovskite

- Organic cation
- Anion: halogen
- Metallic cation: Pb, Sn..

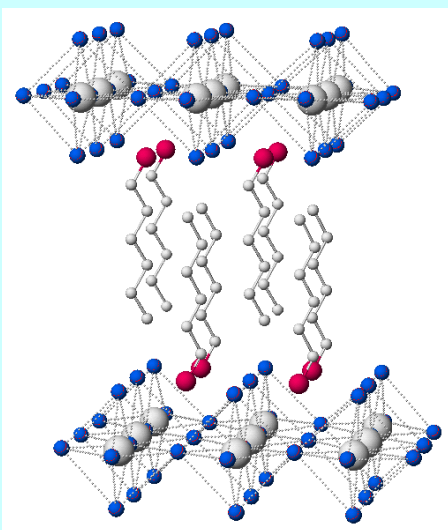
Three-dimensional structure



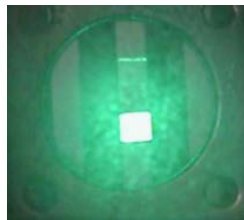
Solar-cell application



Two-dimensional structure



Light-emitting application



Zero, one - dimensional structure

