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BLUE PHOSPHORENE New 2D material

Blue Phosphorene

In article number 1804066, Hamid Oughaddou and co-workers synthesize a single-layer of blue phosphorene on Au(111) using molecular beam epitaxy. Scanning tunneling microscopy images show high-quality and ordered monolayer phosphorene. Density functional theory calculations support a blue phosphorene layer presenting two different structures while photoemission (ARPES) measurements reveal a band gap of at least 0.8 eV.

