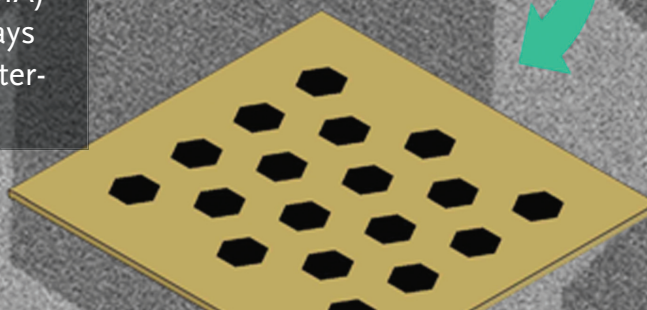
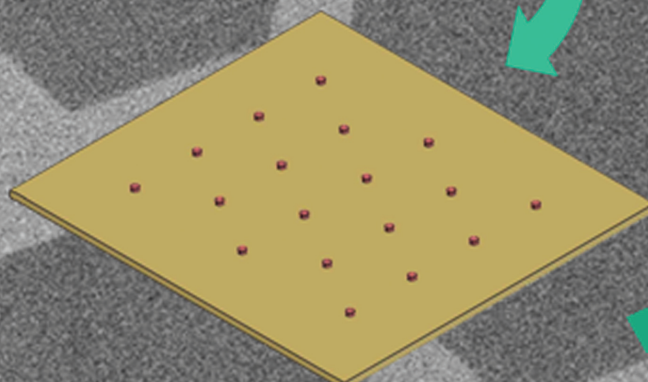
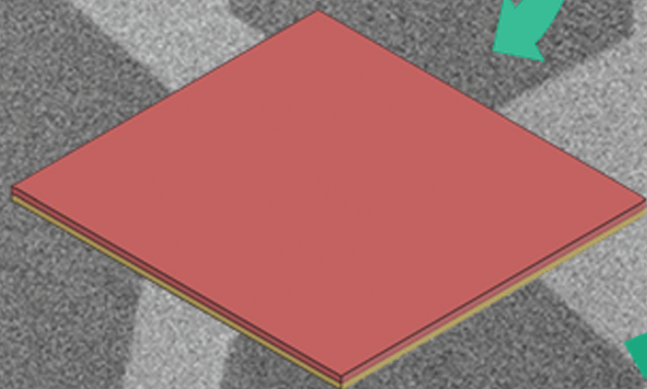


ADVANCED MATERIALS



GRAPHENE

Control of chemical vapor deposition (CVD) graphene nucleation on polycrystalline Cu by locally providing a high concentration of carbon is demonstrated. As reported by Qingkai Yu and co-workers, solid carbon source poly(methyl methacrylate (PMMA) is used to enhance local nucleation and spatially ordered arrays of single crystal graphene grains can be synthesized at predetermined sites on the Cu surface.