Patterning and imaging of adsorbed molecular layers on a dielectric substrate

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On top of a dielectric substrate immobilized and photopatterned polymer self-assembled monolayer (SAM) was observed by a surface plasmon resonance (SPR) imager[1]. We agree that it is important to know about how the linker layer is formed and how the surface morphology looks like, not just on one point, but over a whole surface being observed. For this purpose, we used a specifically designed and fabricated SPR chip, on top of which a silica layer was extra deposited. A polymer SAM layer was immobilized[2], functionalized, and photopatterned after BSA conjugation. Surface morphology was then observed by a SPR imager, indicating that the linker layer was formed evenly.