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Example 1: bottom-up Rh and Si NW resonator arrays (1) a) Molecules are attached to the NWs. b) dielectrophoresis is used to preferentially align single NWs in wells patterned in a sacrificial photoresist layer. c) Individual clamp windows are defined in a second photoresist layer. d) Metal clamps are electrodeposited around the NW tips. e) NWs are exposed to fluorescently labelled complementary and non-complementary targets to confirm detection selectivity. M. Li et al., Nature Nanotechnology 3, 88 - 92 (2008) 12 Adrian M. Ionescu, June 2009.































































































