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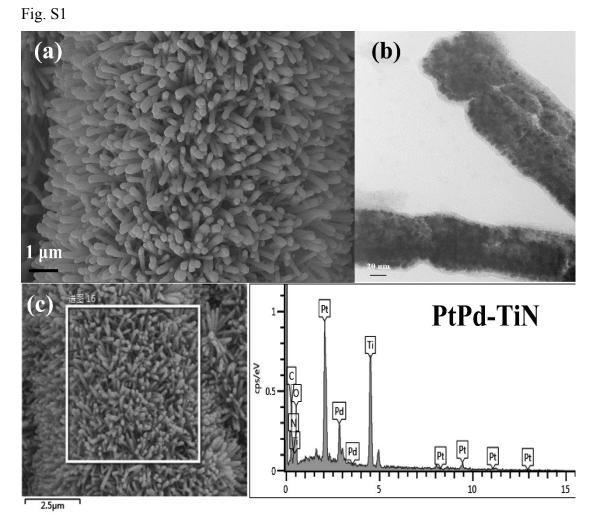


Fig. S1 FESEM image (a), TEM image (b), and EDX (c) of PtPd-TiN NRs



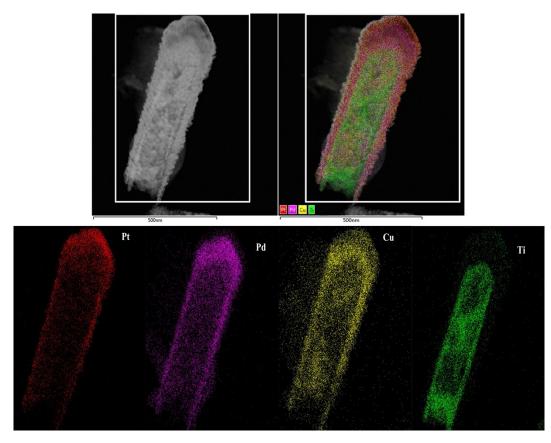


Fig. S2 HAADF-STEM characterization and elemental mapping of a PtPdCu-TiN NR.