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Nanostructured surface made from polymer/carbon nanotube has higher conductivity than noble metal surface SUPING LYU, Medtronic Inc, JAMES COLES, KEN GARDENSKI, SCOTT BRABEC, CHRIS HOBOT, MEDTRONIC TEAM — We made a nanostructured surface by directly coating carbon nanotubes to a surface that was previously solvent-coated with a polymer/CNT composite. Compared to the surface coated with the same polymer composite where the surface carbon nanotubes were buried in the matrix polymer, the surface directly coated with carbon nanotubes had a significant amount of exposed nanostructures. The surface was immersed in an electrolyte solution. Its AC conductivity was higher than that of a Pt/Ir surface.

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